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*/

```
#ifndef UV_BSD_H
```

```
#define UV_BSD_H
```

```
#define UV_PLATFORM_FS_EVENT_FIELDS \
    uv__io_t event_watcher; \
```

```
#define UV_IO_PRIVATE_PLATFORM_FIELDS \
    int rcount; \
    int wcount; \
```

```
#define UV_HAVE_KQUEUE 1
```

```
#endif /* UV_BSD_H */
```

Files: *

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1.4 tabulate 0.8.3

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1.5 supervisor 4.2.0

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1.6 perks 1.0.1

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1.7 golang-protobuf-extensions 1.0.1

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1.8 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.9 golang-glog 1.0.0

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1.10 x-text 0.3.7

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1.12 prometheus-procfs 0.7.3

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.14 json-iterator-go 1.1.12

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1.15 modern-go-reflect2 1.0.2

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1.21 prometheus-client 1.12.1

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1.25 msgpack 5.3.5

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1.26 backoff 4.1.3

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1.27 prometheus-client-model 0.2.0

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1.28 civetweb 1.15

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- > Author : Doug Currie <doug.currie@alum.mit.edu>
- > Library : lsqlite3 - an SQLite 3 database binding for Lua 5
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Version 1.8.0 (Lua 5.2), 2013-06-10 by Gerald Franz, eludi.net

Modified and extended 2015 by Bernhard Nortmann, <https://github.com/n1tehawk/LuaXML>
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> version 1.2.11, January
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1.29 bluemonday 1.0.18

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1.30 x-crypto v0.14.0

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1.31 apicapi 1.11.0

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1.32 goprotobuf 1.5.2

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1.33 google-uuid 1.3.0

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1.34 neutron-opflex-agent 11.12.0

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Upstream-Name: python-opflex-agent

Source: <https://github.com/noironetworks/python-opflex-agent>

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1.35 python-group-based-policy-client 7.11.0

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1.36 group-based-policy-ui 11.4.0

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1.39 libopflex 2.7.0

1.39.1 Available under license :

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1.40 xxhash 2.1.2

1.40.1 Available under license :

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1.41 acitoolkit 0.5.1

1.41.1 Available under license :

acitoolkit uses the requests library.

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1.42 aci-integration-module 0.30.1

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1.43 group-based-policy 11.15.0

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1.44 openshift installer 4.15

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goproperties - properties file decoder for Go

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```
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    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseAssignmentStateCollectionResponse  
type LicenseAssignmentStateCollectionResponse struct {  
    BaseCollectionPaginationCountResponse  
    // The value property  
    value []LicenseAssignmentStateable  
}  
// NewLicenseAssignmentStateCollectionResponse instantiates a new LicenseAssignmentStateCollectionResponse  
and sets the default values.  
func NewLicenseAssignmentStateCollectionResponse>(*LicenseAssignmentStateCollectionResponse) {  
    m := &LicenseAssignmentStateCollectionResponse{  
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),  
    }  
    return m  
}  
// CreateLicenseAssignmentStateCollectionResponseFromDiscriminatorValue creates a new instance of the  
appropriate class based  
on discriminator value  
func CreateLicenseAssignmentStateCollectionResponseFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewLicenseAssignmentStateCollectionResponse(), nil  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *LicenseAssignmentStateCollectionResponse)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error)) {  
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()  
    res["value"] =  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateL  
icenseAssignmentStateFromDiscriminatorValue , m.SetValue)  
    return res  
}  
// GetValue gets the value property value. The value property  
func (m *LicenseAssignmentStateCollectionResponse) GetValue()([]LicenseAssignmentStateable)
```

```

{
    return m.value
}
// Serialize serializes information the current object
func (m *LicenseAssignmentStateCollectionResponse) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPagingCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *LicenseAssignmentStateCollectionResponse) SetValue(value []LicenseAssignmentStateable)() {
    m.value = value
}

```

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abstractions-go/serialization"  
)
```

```
// LicenseDetailsable  
type LicenseDetailsable interface {  
    Entityable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetServicePlans()([]ServicePlanInfoable)  
    GetSkuId>(*string)  
    GetSkuPartNumber(*string)  
    SetServicePlans(value []ServicePlanInfoable())  
    SetSkuId(value *string())  
    SetSkuPartNumber(value *string())  
}
```

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```
package vsphere
```

```
import (  
    "log"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
)
```

```
func dataSourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
        Read: dataSourceVSphereLicenseRead,  
  
        Schema: map[string]*schema.Schema{
```

```

"license_key": {
  Type:  schema.TypeString,
  Required: true,
},

// computed properties returned by the API
"id": {
  Type:  schema.TypeString,
  Computed: true,
},
"labels": {
  Type:  schema.TypeMap,
  Computed: true,
  Elem:  &schema.Schema{Type: schema.TypeString},
},
"edition_key": {
  Type:  schema.TypeString,
  Computed: true,
},
"name": {
  Type:  schema.TypeString,
  Computed: true,
},
"total": {
  Type:  schema.TypeInt,
  Computed: true,
},
"used": {
  Type:  schema.TypeInt,
  Computed: true,
},
}
}

func dataSourceVSphereLicenseRead(d
*schema.ResourceData, meta interface{ }) error {

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)
licenseKey := d.Get("license_key").(string)
if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
  log.Println("[INFO] Setting the values")
  d.Set("edition_key", info.EditionKey)
  d.Set("total", info.Total)
  d.Set("used", info.Used)
  d.Set("name", info.Name)
  if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {

```

```
return err
}
d.SetId(licenseKey)
return nil
} else {
return ErrNoSuchKeyFound
}
}
```

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package assignlicense

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// AssignLicenseRequestBuilder provides operations to call the assignLicense method.  
type AssignLicenseRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query  
parameters, and  
middleware options.  
type AssignLicenseRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default  
values.  
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ  
estBuilder) {  
    m := &AssignLicenseRequestBuilder{  
    }  
    m.urlTemplate = "{+baseurl}/users/{user%2Did}/microsoft.graph.assignLicense";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters = urlTplParams;  
    m.requestAdapter = requestAdapter;  
    return m  
}  
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder
```

and sets the default values.

```
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation invoke action assignLicense
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post invoke action assignLicense
func (m *AssignLicenseRequestBuilder) Post(ctx context.Context, body AssignLicensePostRequestBodyable,
requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
}
```

```

    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
package contentkeypolicies

import (
    "encoding/json"
    "fmt"
    "time"

    "github.com/hashicorp/go-azure-helpers/lang/dates"
)

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type ContentKeyPolicyPlayReadyLicense struct {
    AllowTestDevices    bool                `json:"allowTestDevices"`
    BeginDate           *string            `json:"beginDate,omitempty"`
    ContentKeyLocation  ContentKeyPolicyPlayReadyContentKeyLocation `json:"contentKeyLocation"`
    ContentType         ContentKeyPolicyPlayReadyContentType `json:"contentType"`
    ExpirationDate     *string            `json:"expirationDate,omitempty"`
    GracePeriod        *string            `json:"gracePeriod,omitempty"`
    LicenseType        ContentKeyPolicyPlayReadyLicenseType `json:"licenseType"`
    PlayRight           *ContentKeyPolicyPlayReadyPlayRight `json:"playRight,omitempty"`
    RelativeBeginDate  *string            `json:"relativeBeginDate,omitempty"`
    RelativeExpirationDate *string            `json:"relativeExpirationDate,omitempty"`
}

func (o *ContentKeyPolicyPlayReadyLicense) GetBeginDateAsTime() (*time.Time, error) {
    if o.BeginDate == nil {
        return nil, nil
    }
    return dates.ParseAsFormat(o.BeginDate, "2006-01-02T15:04:05Z07:00")
}

func (o *ContentKeyPolicyPlayReadyLicense) SetBeginDateAsTime(input time.Time) {
    formatted := input.Format("2006-01-02T15:04:05Z07:00")
    o.BeginDate = &formatted
}

func (o *ContentKeyPolicyPlayReadyLicense) GetExpirationDateAsTime() (*time.Time, error) {
    if o.ExpirationDate == nil {
        return nil, nil
    }

```

```

}
return dates.ParseAsFormat(o.ExpirationDate, "2006-01-02T15:04:05Z07:00")
}

func (o *ContentKeyPolicyPlayReadyLicense) SetExpirationDateAsTime(input time.Time) {
    formatted :=
    input.Format("2006-01-02T15:04:05Z07:00")
    o.ExpirationDate = &formatted
}

var _ json.Unmarshaler = &ContentKeyPolicyPlayReadyLicense{}

func (s *ContentKeyPolicyPlayReadyLicense) UnmarshalJSON(bytes []byte) error {
    type alias ContentKeyPolicyPlayReadyLicense
    var decoded alias
    if err := json.Unmarshal(bytes, &decoded); err != nil {
        return fmt.Errorf("unmarshaling into ContentKeyPolicyPlayReadyLicense: %+v", err)
    }

    s.AllowTestDevices = decoded.AllowTestDevices
    s.BeginDate = decoded.BeginDate
    s.ContentType = decoded.ContentType
    s.ExpirationDate = decoded.ExpirationDate
    s.GracePeriod = decoded.GracePeriod
    s.LicenseType = decoded.LicenseType
    s.PlayRight = decoded.PlayRight
    s.RelativeBeginDate = decoded.RelativeBeginDate
    s.RelativeExpirationDate = decoded.RelativeExpirationDate

    var temp map[string]json.RawMessage
    if err := json.Unmarshal(bytes, &temp); err != nil {
        return fmt.Errorf("unmarshaling ContentKeyPolicyPlayReadyLicense into map[string]json.RawMessage: %+v", err)
    }

    if
    v, ok := temp["contentKeyLocation"]; ok {
        impl, err := unmarshalContentKeyPolicyPlayReadyContentKeyLocationImplementation(v)
        if err != nil {
            return fmt.Errorf("unmarshaling field 'ContentKeyLocation' for 'ContentKeyPolicyPlayReadyLicense': %+v", err)
        }
        s.ContentKeyLocation = impl
    }
    return nil
}

```

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// Code generated by go-swagger; DO NOT EDIT.

package models

// This file was generated by the swagger tool.

// Editing this file might prove futile when you re-run the swagger generate command

```
import (  
    "context"
```

```
    "github.com/go-openapi/strfmt"
```

```
    "github.com/go-openapi/swag"
```

```
)
```

```
// SoftwareLicenses software licenses
```

```
//
```

```
// swagger:model SoftwareLicenses
```

```
type SoftwareLicenses struct {
```

```
    // IBMi Cloud Storage Solution
```

```
    Ibmicss *bool `json:"ibmicss,omitempty"`
```

```
    // IBMi Cloud Storage Solution
```

```

IbmiDBQ *bool `json:"ibmiDBQ,omitempty"`

// IBMi Power High Availability
IbmiPHA *bool `json:"ibmiPHA,omitempty"`

// IBMi Rational Dev Studio
IbmiRDS *bool `json:"ibmiRDS,omitempty"`

// IBMi Rational Dev Studio Number of User Licenses
IbmiRDSUsers int64 `json:"ibmiRDSUsers,omitempty"`
}

// Validate validates this software licenses
func (m *SoftwareLicenses) Validate(formats strfmt.Registry) error {
    return nil
}

// ContextValidate validates this software licenses based on context it is used
func
(m *SoftwareLicenses) ContextValidate(ctx context.Context, formats strfmt.Registry) error {
    return nil
}

// MarshalBinary interface implementation
func (m *SoftwareLicenses) MarshalBinary() ([]byte, error) {
    if m == nil {
        return nil, nil
    }
    return swag.WriteJSON(m)
}

// UnmarshalBinary interface implementation
func (m *SoftwareLicenses) UnmarshalBinary(b []byte) error {
    var res SoftwareLicenses
    if err := swag.ReadJSON(b, &res); err != nil {
        return err
    }
    *m = res
    return nil
}
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```

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package models

import (

 "errors"

)

// Provides operations to manage the collection of agreement entities.

type EditionUpgradeLicenseType int

const (

 // Product Key Type

 PRODUCTKEY_EDITIONUPGRADELICENSETYPE EditionUpgradeLicenseType = iota

 // License File Type

 LICENSEFILE_EDITIONUPGRADELICENSETYPE

)

func (i EditionUpgradeLicenseType) String() string {

 return []string{"productKey", "licenseFile"}[i]

}

func ParseEditionUpgradeLicenseType(v string) (interface{ }, error) {

 result := PRODUCTKEY_EDITIONUPGRADELICENSETYPE

 switch v {

 case "productKey":

 result = PRODUCTKEY_EDITIONUPGRADELICENSETYPE

 case "licenseFile":

 result = LICENSEFILE_EDITIONUPGRADELICENSETYPE

 default:

 return 0, errors.New("Unknown EditionUpgradeLicenseType value: " + v)

 }

 return &result, nil

}

func SerializeEditionUpgradeLicenseType(values []EditionUpgradeLicenseType) []string {

 result := make([]string, len(values))

 for

 i, v := range values {

 result[i] = v.String()

```
}  
return result  
}
```

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package vsphere

```
import (  
    "log"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
)
```

```
func dataSourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
        Read: dataSourceVSphereLicenseRead,  
  
        Schema: map[string]*schema.Schema{  
            "license_key": {  
                Type:     schema.TypeString,  
                Required: true,  
            },  
  
            // computed properties returned by the API  
            "id": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
            "labels": {  
                Type:     schema.TypeMap,  
                Computed: true,  
                Elem:   &schema.Schema{Type: schema.TypeString},  
            },  
            "edition_key": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
            "name": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
            "total": {  
                Type:     schema.TypeInt,  
                Computed: true,  
            },  
            "used": {  
                Type:     schema.TypeInt,
```

```

    Computed: true,
  },
},
}
}

```

```

func dataSourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {

```

```

    client
    := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)
    licenseKey := d.Get("license_key").(string)
    if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
        log.Println("[INFO] Setting the values")
        d.Set("edition_key", info.EditionKey)
        d.Set("total", info.Total)
        d.Set("used", info.Used)
        d.Set("name", info.Name)
        if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
            return err
        }
        d.SetId(licenseKey)
        return nil
    } else {
        return ErrNoSuchKeyFound
    }
}

```

```

package memberswithlicenseerrors

```

```

import (
    "context"
    i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
    i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/group"
    i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/user"
    i44b96843de9edb7831feeb7753f66dad8edcd1bbfaea1ff3b97835638702ed8
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/device"
    i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/application"
    ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/orgcontact"
    ia742a37f75ffa85a15c52758b54a8cfbacdae12597cc38b77fd0f412aaa1e32 "github.com/microsoftgraph/msgraph-

```

```

sdk-go/groups/item/memberswithlicenseerrors/count"
    iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87
"github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/serviceprincipal"
)

// MembersWithLicenseErrorsRequestBuilder provides operations to manage the membersWithLicenseErrors
property of the microsoft.graph.group entity.
type MembersWithLicenseErrorsRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use
    to build the URL for the current request builder
    urlTemplate string
}
// MembersWithLicenseErrorsRequestBuilderGetQueryParameters a list of group members with license errors from
this group-based license assignment. Read-only.
type MembersWithLicenseErrorsRequestBuilderGetQueryParameters struct {
    // Include count of items
    Count *bool `uriparametername:"%24count"`
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Filter items by property values
    Filter *string `uriparametername:"%24filter"`
    // Order items by property values
    Orderby []string `uriparametername:"%24orderby"`
    // Search items by search phrases
    Search *string `uriparametername:"%24search"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
    // Skip the first n items
    Skip *int32 `uriparametername:"%24skip"`
    // Show only the first n items
    Top *int32 `uriparametername:"%24top"`
}
// MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration
configuration for the request such as headers, query parameters, and middleware options.
type MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *MembersWithLicenseErrorsRequestBuilderGetQueryParameters
}
// Application casts the previous resource to application.
func (m *MembersWithLicenseErrorsRequestBuilder)

```

```

Application)(*i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c.ApplicationRequestBuilder) {
    return
i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c.NewApplicationRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}
// NewMembersWithLicenseErrorsRequestBuilderInternal instantiates a new
MembersWithLicenseErrorsRequestBuilder and sets the default values.
func
NewMembersWithLicenseErrorsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*MembersWithLicenseErrorsRequestBuilder) {
    m := &MembersWithLicenseErrorsRequestBuilder{
    }
    m.urlTemplate =
"+baseurl}/groups/{group%2Did}/membersWithLicenseErrors{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewMembersWithLicenseErrorsRequestBuilder instantiates a new MembersWithLicenseErrorsRequestBuilder
and sets the default values.
func NewMembersWithLicenseErrorsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*MembersWithLicenseErrorsRequestBuilder) {
    urlParams
:= make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewMembersWithLicenseErrorsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *MembersWithLicenseErrorsRequestBuilder)
Count)(*ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32.CountRequestBuilder) {
    return
ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32.NewCountRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}
// CreateGetRequestInformation a list of group members with license errors from this group-based license
assignment. Read-only.
func (m *MembersWithLicenseErrorsRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {

```

```

requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Device casts the previous resource to device.
func (m *MembersWithLicenseErrorsRequestBuilder)
Device(*i44b96843de9edb7831feeb7753f66dad8edcd1bbfaeea1ff3b97835638702ed8.DeviceRequestBuilder) {
    return
i44b96843de9edb7831feeb7753f66dad8edcd1bbfaeea1ff3b97835638702ed8.NewDeviceRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// Get
a list of group members with license errors from this group-based license assignment. Read-only.
func (m *MembersWithLicenseErrorsRequestBuilder) Get(ctx context.Context, requestConfiguration
*MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba1
7de0380ddda76f641a29edf2b242.DirectoryObjectCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateDirectoryObjectCollectionResp
onseFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }

```

```

    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.DirectoryObjectCollectionRespon
seable), nil
}
// Group casts the previous resource to group.
func (m *MembersWithLicenseErrorsRequestBuilder)
Group>(*i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169.GroupRequestBuilder) {
    return
i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169.NewGroupRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// OrgContact casts the previous resource to orgContact.
func (m *MembersWithLicenseErrorsRequestBuilder)
OrgContact>(*ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216.OrgContactRequestBui
lder) {
    return
ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216.NewOrgContactRequestBuilderIntern
al(m.pathParameters, m.requestAdapter);
}
// ServicePrincipal
casts the previous resource to servicePrincipal.
func (m *MembersWithLicenseErrorsRequestBuilder)
ServicePrincipal>(*iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87.ServicePrincipal
RequestBuilder) {
    return
iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87.NewServicePrincipalRequestBuilderI
nternal(m.pathParameters, m.requestAdapter);
}
// User casts the previous resource to user.
func (m *MembersWithLicenseErrorsRequestBuilder)
User>(*i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba.UserRequestBuilder) {
    return
i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba.NewUserRequestBuilderInternal(m.pat
hParameters, m.requestAdapter);
}

```

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package migration

```
import "fmt"
```

```
// Notice is a migration warning
```

```
type Notice struct {  
    Plugin    string  
    Option    string  
    Severity  string // 'deprecated', 'removed', or 'unsupported'  
    ReplacedBy string  
    Additional string  
    Version  string  
}
```

```

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v"`, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
    }
    if n.Severity == SevUnsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == SevNewDefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated"
    // deprecated, but still completely functional
    SevIgnored    = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved    = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present
    // in the Corefile
    SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not
    // present in the corefile.
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    SevAll = "all" // show all statuses
)
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```

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source: <https://github.com/IBM-Cloud/bluemix-go>

issues: <https://github.ibm.com/blueprint/security-project-management/issues>

objectCodeOnly: false

additionalDownloads:

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- go modules

exclude:

- name: glide

documentation: Package manager not invoked in build nor runtime use

- name: nodejs

documentation: Package manager not invoked in build nor runtime use

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dependencies:

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package market

```
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//
//http://www.apache.org/licenses/LICENSE-2.0
//
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//distributed under the License is distributed on an "AS IS" BASIS,
//WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
//See the License for the specific language governing permissions and
//limitations under the License.
//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
// LicenseAttribute is a nested struct in market response
type LicenseAttribute struct {
    Code string `json:"Code" xml:"Code"`
    Value string `json:"Value" xml:"Value"`
}
```

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package opsworks

```
import (  
    "context"  
    "log"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/opsworks"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
```

```
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
"github.com/hashicorp/terraform-provider-aws/internal/conns"  
"github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
"github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
)
```

```
// @SDKResource("aws_opsworks_permission")  
func ResourcePermission() *schema.Resource {  
    return &schema.Resource{  
        CreateWithoutTimeout: resourceSetPermission,  
        ReadWithoutTimeout:    resourcePermissionRead,  
        UpdateWithoutTimeout: resourceSetPermission,  
        DeleteWithoutTimeout: schema.NoopContext,
```

```
        Schema: map[string]*schema.Schema{  
            "allow_ssh": {  
                Type: schema.TypeBool,  
                Computed: true,  
                Optional: true,  
            },  
            "allow_sudo": {  
                Type: schema.TypeBool,  
                Computed: true,  
                Optional: true,  
            },  
            "level": {  
                Type: schema.TypeString,  
                Computed: true,  
                Optional: true,  
                ValidateFunc: validation.StringInSlice([]string{  
                    "deny",  
                    "show",  
                    "deploy",  
                    "manage",  
                    "iam_only",  
                }, false),  
            },  
            "stack_id": {  
                Type: schema.TypeString,  
                Required: true,  
                ForceNew: true,  
            },  
            "user_arn": {  
                Type: schema.TypeString,  
                Required: true,  
                ForceNew: true,
```

```

    },
  },
}
}

```

```

func resourceSetPermission(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).OpsWorksConn(ctx)

```

```

    iamUserARN := d.Get("user_arn).(string)
    stackID := d.Get("stack_id).(string)
    id := iamUserARN + stackID
    input := &opsworks.SetPermissionInput{
        AllowSudo: aws.Bool(d.Get("allow_sudo).(bool)),
        AllowSsh:
            aws.Bool(d.Get("allow_ssh).(bool)),
        IamUserArn: aws.String(iamUserARN),
        StackId:   aws.String(stackID),
    }

```

```

    if d.IsNewResource() {
        if v, ok := d.GetOk("level"); ok {
            input.Level = aws.String(v.(string))
        }
    } else if d.HasChange("level") {
        input.Level = aws.String(d.Get("level).(string))
    }

```

```

    _, err := tfresource.RetryWhenAWSErrMessageContains(ctx, propagationTimeout, func() (interface{ }, error) {
        return conn.SetPermissionWithContext(ctx, input)
    }, opsworks.ErrCodeResourceNotFoundException, "Unable to find user with ARN")

```

```

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "setting OpsWorks Permission (%s): %s", id, err)
    }

```

```

    if d.IsNewResource() {
        d.SetId(id)
    }

```

```

    return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

```

```

func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).OpsWorksConn(ctx)

```

```

    permission, err := FindPermissionByTwoPartKey(ctx,

```

```

conn, d.Get("user_arn").(string), d.Get("stack_id").(string))

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] OpsWorks Permission %s not found, removing from state", d.Id())
    d.SetId("")
    return diags
}

if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading OpsWorks Permission (%s): %s", d.Id(), err)
}

d.Set("allow_ssh", permission.AllowSsh)
d.Set("allow_sudo", permission.AllowSudo)
d.Set("level", permission.Level)
d.Set("stack_id", permission.StackId)
d.Set("user_arn", permission.IamUserArn)

return diags
}

func FindPermissionByTwoPartKey(ctx context.Context, conn *opsworks.OpsWorks, iamUserARN, stackID string)
(*opsworks.Permission, error) {
    input := &opsworks.DescribePermissionsInput{
        IamUserArn: aws.String(iamUserARN),
        StackId:    aws.String(stackID),
    }

    output, err := conn.DescribePermissionsWithContext(ctx, input)

    if tfawserr.ErrCodeEquals(err, opsworks.ErrCodeResourceNotFoundException) {
        return nil, &retry.NotFoundError{
            LastError:
                err,
            LastRequest: input,
        }
    }

    if err != nil {
        return nil, err
    }

    if output == nil || len(output.Permissions) == 0 || output.Permissions[0] == nil {
        return nil, tfresource.NewEmptyResultError(input)
    }

    if count := len(output.Permissions); count > 1 {
        return nil, tfresource.NewTooManyResultsError(count, input)
    }
}

```

```
}
```

```
return output.Permissions[0], nil
```

```
}
```

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```
package reprocesslicenseassignment
```

```
import (
```

```
    "context"
```

```
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"
```

```
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
```

```
    "github.com/microsoftgraph/msgraph-sdk-go/models"
```

```
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
```

```
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
```

```
)
```

```
// ReprocessLicenseAssignmentRequestBuilder provides operations to call the reprocessLicenseAssignment method.
```

```
type ReprocessLicenseAssignmentRequestBuilder struct {
```

```
    // Path parameters for the request
```

```
    pathParameters map[string]string
```

```
    // The request adapter to use to execute the requests.
```

```
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
```

```
    // Url template to use to build the URL for the current request builder
```

```
    urlTemplate string
```

```
}
```

```
// ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration configuration
```

```
for the request such as headers, query parameters, and middleware options.
```

```
type ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration struct {
```

```

// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewReprocessLicenseAssignmentRequestBuilderInternal instantiates a new
ReprocessLicenseAssignmentRequestBuilder and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    m := &ReprocessLicenseAssignmentRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/users/{user%2Did}/microsoft.graph.reprocessLicenseAssignment";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters
= urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewReprocessLicenseAssignmentRequestBuilder instantiates a new ReprocessLicenseAssignmentRequestBuilder
and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewReprocessLicenseAssignmentRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation reprocess all group-based license assignments for the user. To learn more about
group-based licensing, see What is group-based licensing in Azure Active Directory. Also see Identify and resolve
license assignment problems for a group in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) CreatePostRequestInformation(ctx context.Context,
requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df63981
3ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
}

```

```

    return requestInfo, nil
}
// Post reprocess all group-based license assignments for the user. To learn more about group-based licensing, see
// What is group-based licensing in Azure Active Directory. Also see Identify and resolve license assignment problems
// for a group
// in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) Post(ctx context.Context, requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bb
a17de0380ddda76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}

```

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name: bluemix-go

source: <https://github.com/IBM-Cloud/bluemix-go>

issues: <https://github.ibm.com/blueprint/schematics-compliance/issues>

objectCodeOnly: false

additionalDownloads:

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exclude:

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documentation: Package manager not invoked in build nor runtime use

- name: nodejs

documentation: Package manager not invoked in build nor runtime use

- name: yarn

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- name: github.com/BurntSushi/toml

version: v0.3.1

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version: v0.0.0-20200907205600-7a23bdc65eef

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version: v1.34.28

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- name: google.golang.org/protobuf
version: v1.26.0
- name: gopkg.in/check.v1
version: v1.0.0-20200227125254-8fa46927fb4f
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- name: gopkg.in/errgo.v2
version: v2.1.0
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- name: gopkg.in/fsnotify.v1
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- name: gopkg.in/tomb.v1
  version: v1.0.0-20141024135613-dd632973f1e7
  licenses:
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- name: gopkg.in/yaml.v2
  version: v2.4.0
- name: gopkg.in/yaml.v3
  version: v3.0.0-20200605160147-a5ece683394c
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```

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package licensemanager

```
import (
    "context"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/licensemanager"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
)
```

```
// @SDKDataSource("aws_licensemanager_grants")
func DataSourceDistributedGrants() *schema.Resource {
    return &schema.Resource{
        ReadWithoutTimeout: dataSourceDistributedGrantsRead,
        Schema: map[string]*schema.Schema{
            "filter": DataSourceFiltersSchema(),
            "arns": {
                Type: schema.TypeList,
                Computed: true,
                Elem: &schema.Schema{Type: schema.TypeString},
            }
        }
    }
}
```

```
    },  
  },  
}  
}
```

```
func dataSourceDistributedGrantsRead(ctx context.Context, d *schema.ResourceData, meta interface{})  
diag.Diagnostics  
{  
  var diags diag.Diagnostics  
  conn := meta.(*conns.AWSCClient).LicenseManagerConn(ctx)  
  
  in := &licensemanager.ListDistributedGrantsInput{ }  
  
  in.Filters = BuildFiltersDataSource(  
    d.Get("filter").(*schema.Set),  
  )  
  
  if len(in.Filters) == 0 {  
    in.Filters = nil  
  }  
  
  out, err := FindDistributedDistributedGrants(ctx, conn, in)  
  
  if err != nil {  
    return sdkdiag.AppendErrorf(diags, "reading Distributes Grants: %s", err)  
  }  
  
  var grantARNs []string  
  
  for _, v := range out {  
    grantARNs = append(grantARNs, aws.StringValue(v.GrantArn))  
  }  
  
  d.SetId(meta.(*conns.AWSCClient).Region)  
  d.Set("arns", grantARNs)  
  
  return diags  
}
```

```
func FindDistributedDistributedGrants(ctx context.Context, conn *licensemanager.LicenseManager, in  
*licensemanager.ListDistributedGrantsInput) ([]*licensemanager.Grant, error) {  
  var out []*licensemanager.Grant  
  
  err := listDistributedGrantsPages(ctx, conn, in, func(page *licensemanager.ListDistributedGrantsOutput, lastPage  
bool) bool {  
    if page == nil {  
      return
```

```

!lastPage
}

for _, v := range page.Grants {
    if v != nil {
        out = append(out, v)
    }
}

return !lastPage
})

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeResourceNotFoundException) {
    return nil, &retry.NotFoundError{
        LastError: err,
        LastRequest: in,
    }
}

if err != nil {
    return nil, err
}

return out, nil
}

```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetails provides operations to manage the collection of agreement entities.
```

```
type LicenseDetails struct {
```

```

Entity
// Information about the service plans assigned with the license. Read-only, Not nullable
servicePlans []ServicePlanInfoable
// Unique identifier (GUID) for the service SKU. Equal to the skuId property on the related SubscribedSku object.
Read-only
skuId *string
// Unique SKU display name. Equal to the skuPartNumber on the related SubscribedSku object; for example:
'AAD_Premium'. Read-only
skuPartNumber *string
}
// NewLicenseDetails instantiates a new licenseDetails and sets the default values.
func NewLicenseDetails(*LicenseDetails) {
    m := &LicenseDetails{

Entity: *NewEntity(),
    }
    return m
}
// CreateLicenseDetailsFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseDetailsFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseDetails(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseDetails)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.Entity.GetFieldDeserializers()
    res["servicePlans"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateS
ervicePlanInfoFromDiscriminatorValue , m.SetServicePlans)
    res["skuId"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)

    res["skuPartNumber"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuPartNumber)
    return res
}
// GetServicePlans gets the servicePlans property value. Information about the service plans assigned with the
license. Read-only, Not nullable
func (m *LicenseDetails) GetServicePlans()([]ServicePlanInfoable) {
    return m.servicePlans
}
// GetSkuId gets the skuId property value. Unique identifier (GUID) for the service SKU. Equal to the skuId
property on the related SubscribedSku object. Read-only
func (m *LicenseDetails) GetSkuId>(*string) {

```

```

    return m.skuId
}
// GetSkuPartNumber gets the skuPartNumber property value. Unique SKU display name. Equal to the
skuPartNumber on the related SubscribedSku object; for example: 'AAD_Premium'. Read-only
func (m *LicenseDetails) GetSkuPartNumber>(*string) {
    return m.skuPartNumber
}
// Serialize serializes information the current object
func (m *LicenseDetails) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error)
{
    err := m.Entity.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetServicePlans() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetServicePlans())
        err = writer.WriteCollectionOfObjectValues("servicePlans", cast)
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteStringValue("skuId", m.GetSkuId())
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteStringValue("skuPartNumber", m.GetSkuPartNumber())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetServicePlans sets the servicePlans property value. Information about the service plans assigned with the
license. Read-only, Not nullable
func (m *LicenseDetails) SetServicePlans(value
[]ServicePlanInfoable) {
    m.servicePlans = value
}
// SetSkuId sets the skuId property value. Unique identifier (GUID) for the service SKU. Equal to the skuId property
on the related SubscribedSku object. Read-only
func (m *LicenseDetails) SetSkuId(value *string) {
    m.skuId = value
}

```

```
}  
// SetSkuPartNumber sets the skuPartNumber property value. Unique SKU display name. Equal to the  
skuPartNumber on the related SubscribedSku object; for example: 'AAD_Premium'. Read-only  
func (m *LicenseDetails) SetSkuPartNumber(value *string) {  
    m.skuPartNumber = value  
}
```

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```
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    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantPostRequestBodyable  
type GrantPostRequestBodyable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetRecipients()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)  
    GetRoles()([]string)  
    SetRecipients(value  
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)  
    SetRoles(value []string)  
}
```

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package grafana

```
import (  
    "context"
```

```

"log"
"time"

"github.com/aws/aws-sdk-go/aws"
"github.com/aws/aws-sdk-go/service/managedgrafana"
"github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
"github.com/hashicorp/terraform-plugin-sdk/v2/diag"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
"github.com/hashicorp/terraform-provider-aws/internal/conns"
"github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
"github.com/hashicorp/terraform-provider-aws/internal/tfresource"
)

// @SDKResource("aws_grafana_license_association")
func ResourceLicenseAssociation() *schema.Resource {
return &schema.Resource{
CreateWithoutTimeout: resourceLicenseAssociationCreate,
ReadWithoutTimeout: resourceLicenseAssociationRead,
DeleteWithoutTimeout: resourceLicenseAssociationDelete,

Importer: &schema.ResourceImporter{
StateContext: schema.ImportStatePassthroughContext,
},

Timeouts: &schema.ResourceTimeout{
Create:
schema.DefaultTimeout(10 * time.Minute),
Delete: schema.DefaultTimeout(10 * time.Minute),
},

Schema: map[string]*schema.Schema{
"free_trial_expiration": {
Type: schema.TypeString,
Computed: true,
},
"license_expiration": {
Type: schema.TypeString,
Computed: true,
},
"license_type": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
ValidateFunc: validation.StringInSlice(managedgrafana.LicenseType_Values(), false),
},
"workspace_id": {
Type: schema.TypeString,

```

```

    Required: true,
    ForceNew: true,
  },
},
}
}

func resourceLicenseAssociationCreate(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
  var diags diag.Diagnostics
  conn := meta.(*conns.AWSClient).GrafanaConn(ctx)

  input := &managedgrafana.AssociateLicenseInput{
    LicenseType: aws.String(d.Get("license_type").(string)),
    WorkspaceId: aws.String(d.Get("workspace_id").(string)),
  }

  log.Printf("[DEBUG]
  Creating Grafana License Association: %s", input)
  output, err := conn.AssociateLicenseWithContext(ctx, input)

  if err != nil {
    return sdkdiag.AppendErrorf(diags, "creating Grafana License Association: %s", err)
  }

  d.SetId(aws.StringValue(output.Workspace.Id))

  if _, err := waitLicenseAssociationCreated(ctx, conn, d.Id(), d.Timeout(schema.TimeoutCreate)); err != nil {
    return sdkdiag.AppendErrorf(diags, "waiting for Grafana License Association (%s) create: %s", d.Id(), err)
  }

  return append(diags, resourceLicenseAssociationRead(ctx, d, meta)...)
}

func resourceLicenseAssociationRead(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
  var diags diag.Diagnostics
  conn := meta.(*conns.AWSClient).GrafanaConn(ctx)

  workspace, err := FindLicensedWorkspaceByID(ctx, conn, d.Id())

  if tfresource.NotFound(err) && !d.IsNewResource() {
    log.Printf("[WARN] Grafana License Association (%s) not found, removing
    from state", d.Id())
    d.SetId("")
    return diags
  }
}

```

```

if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading Grafana License Association (%s): %s", d.Id(), err)
}

if workspace.FreeTrialExpiration != nil {
    d.Set("free_trial_expiration", workspace.FreeTrialExpiration.Format(time.RFC3339))
} else {
    d.Set("free_trial_expiration", nil)
}
if workspace.LicenseExpiration != nil {
    d.Set("license_expiration", workspace.LicenseExpiration.Format(time.RFC3339))
} else {
    d.Set("license_expiration", nil)
}
d.Set("license_type", workspace.LicenseType)

return diags
}

func resourceLicenseAssociationDelete(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).GrafanaConn(ctx)

    log.Printf("[DEBUG] Deleting Grafana License Association: %s", d.Id())
    _, err := conn.DisassociateLicenseWithContext(ctx, &managedgrafana.DisassociateLicenseInput{
        LicenseType: aws.String(d.Get("license_type").(string)),
        WorkspaceId:
        aws.String(d.Id()),
    })

    if tfawserr.ErrCodeEquals(err, managedgrafana.ErrCodeResourceNotFoundException) {
        return diags
    }

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "deleting Grafana License Association (%s): %s", d.Id(), err)
    }

    if _, err := waitWorkspaceUpdated(ctx, conn, d.Id(), d.Timeout(schema.TimeoutDelete)); err != nil {
        return sdkdiag.AppendErrorf(diags, "waiting for Grafana License Association (%s) delete: %s", d.Id(), err)
    }

    return diags
}
/*

```

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package simulator

import (

"github.com/vmware/govmomi/vim25/methods"

"github.com/vmware/govmomi/vim25/mo"

"github.com/vmware/govmomi/vim25/soap"

"github.com/vmware/govmomi/vim25/types"

)

// EvalLicense is the default license

var EvalLicense = types.LicenseManagerLicenseInfo{

LicenseKey: "00000-00000-00000-00000-00000",

EditionKey: "eval",

Name: "Evaluation Mode",

Properties: []types.KeyAnyValue{

{

Key: "feature",

Value: types.KeyValue{

Key: "serialuri:2",

Value: "Remote virtual Serial Port Concentrator",

},

```

    },
    {
    Key: "feature",
    Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
    },
    },
    },
    }

type LicenseManager struct {
    mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if
    r.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {

```

```

body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{ },
}

for i, license := range m.Licenses {
  if req.LicenseKey == license.LicenseKey {
    m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
    return body
  }
}
return
body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
  body := &methods.UpdateLicenseLabelBody{ }

  for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
      continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

    for j := range license.Labels {
      label := &license.Labels[j]

      if label.Key == req.LabelKey {
        if req.LabelValue == "" {
          license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
        } else {
          label.Value = req.LabelValue
        }
      }
      return body
    }
  }

  license.Labels = append(license.Labels, types.KeyValue{
    Key: req.LabelKey,
    Value: req.LabelValue,
  })

  return body
}

body.Fault_ = Fault("", &types.InvalidArgument{ InvalidProperty: "licenseKey" })

```

```

return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId:    req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

```

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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package synclicenses

```
import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// SyncLicensesRequestBuilder provides operations to call the syncLicenses method.
type SyncLicensesRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// SyncLicensesRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware
options.
type SyncLicensesRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewSyncLicensesRequestBuilderInternal instantiates a new SyncLicensesRequestBuilder and sets the default
values.
func NewSyncLicensesRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*SyncLicensesReque
stBuilder) {
    m := &SyncLicensesRequestBuilder{
    }
    m.urlTemplate =
"+baseurl}/deviceAppManagement/vppTokens/{vppToken%2Did}/microsoft.graph.syncLicenses";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
}
```

```

    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewSyncLicensesRequestBuilder instantiates a new SyncLicensesRequestBuilder
and sets the default values.
func NewSyncLicensesRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*SyncLicensesReque
stBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewSyncLicensesRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation syncs licenses associated with a specific appleVolumePurchaseProgramToken
func (m *SyncLicensesRequestBuilder) CreatePostRequestInformation(ctx context.Context, requestConfiguration
*SyncLicensesRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post syncs licenses associated with a specific appleVolumePurchaseProgramToken
func (m *SyncLicensesRequestBuilder) Post(ctx context.Context, requestConfiguration
*SyncLicensesRequestBuilderPostRequestConfiguration)(iadc81124412c61e647227ecfc4449d8bba17de0380ddda
76f641a29edf2b242.VppTokenable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadc81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateVppTokenFromDiscriminatorV

```

```

alue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.VppTokenable), nil
}

```

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```
package contentkeypolicies
```

```
import (  
    "encoding/json"  
    "fmt"  
    "time"  
  
    "github.com/hashicorp/go-azure-helpers/lang/dates"  
)  
  
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type ContentKeyPolicyPlayReadyLicense struct {  
    AllowTestDevices    bool                `json:"allowTestDevices"`  
    BeginDate           *string            `json:"beginDate,omitEmpty"`  
    ContentKeyLocation  ContentKeyPolicyPlayReadyContentKeyLocation `json:"contentKeyLocation"`  
    ContentType         ContentKeyPolicyPlayReadyContentType `json:"contentType"`  
    ExpirationDate      *string            `json:"expirationDate,omitEmpty"`  
    GracePeriod         *string            `json:"gracePeriod,omitEmpty"`  
    LicenseType         ContentKeyPolicyPlayReadyLicenseType `json:"licenseType"`  
    PlayRight           *ContentKeyPolicyPlayReadyPlayRight `json:"playRight,omitEmpty"`  
    RelativeBeginDate   *string            `json:"relativeBeginDate,omitEmpty"`  
    RelativeExpirationDate *string            `json:"relativeExpirationDate,omitEmpty"`  
    SecurityLevel       *SecurityLevel     `json:"securityLevel,omitEmpty"`  
}  
  
func (o *ContentKeyPolicyPlayReadyLicense) GetBeginDateAsTime() (*time.Time, error) {  
    if o.BeginDate == nil {  
        return nil, nil  
    }  
    return dates.ParseAsFormat(o.BeginDate, "2006-01-02T15:04:05Z07:00")  
}  
  
func (o *ContentKeyPolicyPlayReadyLicense) SetBeginDateAsTime(input time.Time) {  
    formatted := input.Format("2006-01-02T15:04:05Z07:00")  
    o.BeginDate = &formatted  
}
```

```

func (o *ContentKeyPolicyPlayReadyLicense) GetExpirationDateAsTime() (*time.Time, error) {
    if o.ExpirationDate == nil {
        return nil, nil
    }
    return dates.ParseAsFormat(o.ExpirationDate, "2006-01-02T15:04:05Z07:00")
}

func
(o *ContentKeyPolicyPlayReadyLicense) SetExpirationDateAsTime(input time.Time) {
    formatted := input.Format("2006-01-02T15:04:05Z07:00")
    o.ExpirationDate = &formatted
}

var _ json.Unmarshaler = &ContentKeyPolicyPlayReadyLicense{}

func (s *ContentKeyPolicyPlayReadyLicense) UnmarshalJSON(bytes []byte) error {
    type alias ContentKeyPolicyPlayReadyLicense
    var decoded alias
    if err := json.Unmarshal(bytes, &decoded); err != nil {
        return fmt.Errorf("unmarshaling into ContentKeyPolicyPlayReadyLicense: %+v", err)
    }

    s.AllowTestDevices = decoded.AllowTestDevices
    s.BeginDate = decoded.BeginDate
    s.ContentType = decoded.ContentType
    s.ExpirationDate = decoded.ExpirationDate
    s.GracePeriod = decoded.GracePeriod
    s.LicenseType = decoded.LicenseType
    s.PlayRight = decoded.PlayRight
    s.RelativeBeginDate = decoded.RelativeBeginDate
    s.RelativeExpirationDate = decoded.RelativeExpirationDate
    s.SecurityLevel = decoded.SecurityLevel

    var temp map[string]json.RawMessage
    if err := json.Unmarshal(bytes,
    &temp); err != nil {
        return fmt.Errorf("unmarshaling ContentKeyPolicyPlayReadyLicense into map[string]json.RawMessage: %+v", err)
    }

    if v, ok := temp["contentKeyLocation"]; ok {
        impl, err := unmarshalContentKeyPolicyPlayReadyContentKeyLocationImplementation(v)
        if err != nil {
            return fmt.Errorf("unmarshaling field 'ContentKeyLocation' for 'ContentKeyPolicyPlayReadyLicense': %+v", err)
        }
        s.ContentKeyLocation = impl
    }
    return nil
}

```

}

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package item

```
import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// LicenseDetailsItemRequestBuilder provides operations to manage the licenseDetails property of the
microsoft.graph.user entity.
type LicenseDetailsItemRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// LicenseDetailsItemRequestBuilderDeleteRequestConfiguration configuration for the
request such as headers, query parameters, and middleware options.
type LicenseDetailsItemRequestBuilderDeleteRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// LicenseDetailsItemRequestBuilderGetQueryParameters a collection of this user's license details. Read-only.
type LicenseDetailsItemRequestBuilderGetQueryParameters struct {
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
}
// LicenseDetailsItemRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsItemRequestBuilderGetQueryParameters
}
```

```

}
// LicenseDetailsItemRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderPatchRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsItemRequestBuilderInternal instantiates a new LicenseDetailsItemRequestBuilder and sets the
default values.
func NewLicenseDetailsItemRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    m := &LicenseDetailsItemRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/me/licenseDetails/{licenseDetails%2Did}{?%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewLicenseDetailsItemRequestBuilder instantiates a new LicenseDetailsItemRequestBuilder and sets the default
values.
func NewLicenseDetailsItemRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewLicenseDetailsItemRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property licenseDetails for me
func (m *LicenseDetailsItemRequestBuilder) CreateDeleteRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
}

```

```

    }
    return requestInfo, nil
}
// CreateGetRequestInformation a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52
9013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property licenseDetails in me
func (m *LicenseDetailsItemRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Delete delete navigation property licenseDetails for me
func (m *LicenseDetailsItemRequestBuilder) Delete(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(error) {
    requestInfo,

```

```

err := m.CreateDeleteRequestInformation(ctx, requestConfiguration);
if err != nil {
    return err
}
errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
}
err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
if err != nil {
    return err
}
return nil
}
// Get a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380
ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}
// Patch update the navigation property licenseDetails in me
func (m *LicenseDetailsItemRequestBuilder) Patch(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,

```

```

requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de03
80ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable),
    nil
}

```

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Go-Azure-SDK

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* github.com/BurntSushi/toml - <https://github.com/BurntSushi/toml>

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* github.com/google/renameio - <https://github.com/google/renameio>

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* github.com/kisielk/gotool - <https://github.com/kisielk/gotool>

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - <https://github.com/rogpeppe/go-internal>

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* golang.org/x/mod/module - <https://github.com/golang/mod>

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* [golang.org/x/tools/go/analysis](https://github.com/golang/tools) - <https://github.com/golang/tools>

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* [gogrep](https://github.com/mvdan/gogrep) - <https://github.com/mvdan/gogrep>

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* gosmith - <https://github.com/dvyukov/gosmith>

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package licensemanager

```
import (  
    "context"  
    "errors"  
    "strconv"  
    "time"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/licensemanager"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/create"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
    "github.com/hashicorp/terraform-provider-aws/internal/verify"  
    "github.com/hashicorp/terraform-provider-aws/names"  
)  
  
const (  
    ResReceivedLicense = "Received License"  
)  
  
// @SDKDataSource("aws_licensemanager_received_license")  
func DataSourceReceivedLicense() *schema.Resource {  
    return &schema.Resource{  
        ReadWithoutTimeout: dataSourceReceivedLicenseRead,  
        Schema:  
        map[string]*schema.Schema{  
            "beneficiary": {  
                Computed: true,  
                Type:     schema.TypeString,  
            },  
            "consumption_configuration": {  
                Computed: true,  
                Type:     schema.TypeList,  
                Elem: &schema.Resource{  
                    Schema: map[string]*schema.Schema{  
                        "borrow_configuration": {  
                            Type:     schema.TypeList,  
                            Computed: true,  
                        },  
                    },  
                },  
            },  
        },  
    }  
}
```

```

Elem: &schema.Resource{
  Schema: map[string]*schema.Schema{
    "allow_early_check_in": {
      Computed: true,
      Type:     schema.TypeBool,
    },
    "max_time_to_live_in_minutes": {
      Computed: true,
      Type:     schema.TypeInt,
    },
  },
  "provisional_configuration": {
    Type:     schema.TypeList,
    Computed: true,
    Elem: &schema.Resource{
      Schema: map[string]*schema.Schema{
        "max_time_to_live_in_minutes": {
          Computed: true,
          Type:     schema.TypeInt,
        },
      },
    },
  },
  "renew_type":
  {
    Type:     schema.TypeString,
    Computed: true,
  },
  "create_time": {
    Computed: true,
    Type:     schema.TypeString,
  },
  "entitlements": {
    Computed: true,
    Type:     schema.TypeSet,
    Elem: &schema.Resource{
      Schema: map[string]*schema.Schema{
        "allow_check_in": {
          Type:     schema.TypeBool,
          Computed: true,
        },
        "max_count": {
          Type:     schema.TypeInt,

```

```

    Computed: true,
  },
  "name": {
    Type: schema.TypeString,
    Computed: true,
  },
  "unit": {
    Type: schema.TypeString,
    Computed: true,
  },
  "value": {
    Type: schema.TypeString,
    Computed: true,
  },
},
},
},
},
"home_region": {
  Computed: true,
  Type: schema.TypeString,
},
"issuer": {
  Computed: true,
  Type: schema.TypeList,
  Elem: &schema.Resource{
    Schema: map[string]*schema.Schema{
      "key_fingerprint":
    {
      Type: schema.TypeString,
      Computed: true,
    },
    "name": {
      Type: schema.TypeString,
      Computed: true,
    },
    "sign_key": {
      Type: schema.TypeString,
      Computed: true,
    },
  },
},
},
},
"license_arn": {
  Required: true,
  Type: schema.TypeString,
  ValidateFunc: verify.ValidARN,
},
"license_metadata": {

```

```

Computed: true,
Type:  schema.TypeSet,
Elem: &schema.Resource{
Schema: map[string]*schema.Schema{
  "name": {
    Type:  schema.TypeString,
    Computed: true,
  },
  "value": {
    Type:  schema.TypeString,
    Computed: true,
  },
},
},
},
},
"license_name": {
  Computed: true,
  Type:  schema.TypeString,
},
"product_name": {
  Computed: true,
  Type:  schema.TypeString,
},
"product_sku": {
  Computed: true,
  Type:  schema.TypeString,
},
"received_metadata":
{
  Computed: true,
  Type:  schema.TypeList,
  Elem: &schema.Resource{
  Schema: map[string]*schema.Schema{
    "allowed_operations": {
      Type:  schema.TypeSet,
      Computed: true,
      Elem: &schema.Schema{
        Type: schema.TypeString,
      },
    },
  },
  "received_status": {
    Type:  schema.TypeString,
    Computed: true,
  },
  "received_status_reason": {
    Type:  schema.TypeString,
    Computed: true,
  },
},
}

```

```

    },
  },
},
"status": {
  Computed: true,
  Type: schema.TypeString,
},
"validity": {
  Computed: true,
  Type: schema.TypeList,
  Elem: &schema.Resource{
    Schema: map[string]*schema.Schema{
      "begin": {
        Type: schema.TypeString,
        Computed: true,
      },
      "end": {
        Type: schema.TypeString,
        Computed: true,
      },
    },
  },
},
},
"version": {
  Computed: true,
  Type: schema.TypeString,
},
}
}
}

func
dataSourceReceivedLicenseRead(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics
{
  var diags diag.Diagnostics
  conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

  arn := d.Get("license_arn).(string)

  in := &licensemanager.ListReceivedLicensesInput{
    LicenseArns: aws.StringSlice([]string{arn}),
  }

  out, err := FindReceivedLicenseByARN(ctx, conn, in)

  if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading License Manager Received License (%s): %s", arn, err)
  }
}

```

```

d.SetId(aws.StringValue(out.LicenseArn))
d.Set("beneficiary", out.Beneficiary)
d.Set("consumption_configuration",
[]interface{}{flattenConsumptionConfiguration(out.ConsumptionConfiguration)})
d.Set("entitlements", flattenEntitlements(out.Entitlements))
d.Set("home_region", out.HomeRegion)
d.Set("issuer", []interface{}{flattenIssuer(out.Issuer)})
d.Set("license_arn", out.LicenseArn)
d.Set("license_metadata", flattenMetadatas(out.LicenseMetadata))
d.Set("license_name",
out.LicenseName)
d.Set("product_name", out.ProductName)
d.Set("product_sku", out.ProductSKU)
d.Set("received_metadata", []interface{}{flattenReceivedMetadata(out.ReceivedMetadata)})
d.Set("status", out.Status)
d.Set("validity", []interface{}{flattenDateTimeRange(out.Validity)})
d.Set("version", out.Version)

if v := aws.StringValue(out.CreateTime); v != "" {
seconds, err := strconv.ParseInt(v, 10, 64)
if err != nil {
return sdkdiag.AppendErrorf(diags, "reading License Manager Received License (%s): %s", arn, err)
}
d.Set("create_time", time.Unix(seconds, 0).UTC().Format(time.RFC3339))
}

return diags
}

func FindReceivedLicenseByARN(ctx context.Context, conn *licensemanager.LicenseManager, in
*licensemanager.ListReceivedLicensesInput) (*licensemanager.GrantedLicense, error) {
out, err := conn.ListReceivedLicensesWithContext(ctx, in)

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeResourceNotFoundException) {
return nil, &retry.NotFoundError{
LastError:
err,
LastRequest: in,
}
}

if err != nil {
return nil, err
}

if len(out.Licenses) == 0 {
return nil, tfresource.NewEmptyResultError(in)
}

```

```

}

if len(out.Licenses) > 1 {
    return nil, create.Error(names.LicenseManager, create.ErrActionReading, ResReceivedLicense, *in.LicenseArns[0],
errors.New("More than one License Returned by the API. "))
}

return out.Licenses[0], nil
}

func flattenConsumptionConfiguration(apiObject *licensemanager.ConsumptionConfiguration)
map[string]interface{} {
if apiObject == nil {
    return nil
}

tfMap := map[string]interface{} {}

if v := apiObject.BorrowConfiguration; v != nil {
    tfMap["borrow_configuration"] = map[string]interface{} {
        "max_time_to_live_in_minutes": v.MaxTimeToLiveInMinutes,
        "allow_early_check_in":      v.AllowEarlyCheckIn,
    }
}

if v := apiObject.ProvisionalConfiguration.MaxTimeToLiveInMinutes; v != nil {
    tfMap["provisional_configuration"] = []interface{} { map[string]interface{} {
        "max_time_to_live_in_minutes":
int(aws.Int64Value(v)),
    }}
}

if v := apiObject.RenewType; v != nil {
    tfMap["renew_type"] = v
}

return tfMap
}

func flattenEntitlements(apiObjects []*licensemanager.Entitlement) []interface{} {
if len(apiObjects) == 0 {
    return nil
}

var tfList []interface{}

for _, apiObject := range apiObjects {
    if apiObject == nil {

```

```

    continue
}

out := flattenEntitlement(apiObject)

if len(out) > 0 {
    tfList = append(tfList, out)
}
}

return tfList
}

func flattenEntitlement(apiObject *licensemanager.Entitlement) map[string]interface{} {
if apiObject == nil {
    return nil
}

tfMap := map[string]interface{}{}

if v := apiObject.AllowCheckIn; v != nil {
    tfMap["allow_check_in"] = v
}

if v := apiObject.MaxCount; v != nil {
    tfMap["max_count"] = v
}

if v := apiObject.Name; v != nil {
    tfMap["name"] = v
}

if v := apiObject.Overage; v != nil {
    tfMap["overage"] = v
}

if v := apiObject.Unit; v != nil {
    tfMap["unit"] = v
}

if v := apiObject.Value;
v != nil {
    tfMap["value"] = v
}

return tfMap
}

```

```

func flattenIssuer(apiObject *licensemanager.IssuerDetails) map[string]interface{} {
    if apiObject == nil {
        return nil
    }

    tfMap := map[string]interface{}{}

    if v := apiObject.KeyFingerprint; v != nil {
        tfMap["key_fingerprint"] = v
    }

    if v := apiObject.Name; v != nil {
        tfMap["name"] = v
    }

    if v := apiObject.SignKey; v != nil {
        tfMap["sign_key"] = v
    }

    return tfMap
}

func flattenMetadatas(apiObjects []*licensemanager.Metadata) []interface{} {
    if len(apiObjects) == 0 {
        return nil
    }

    var tfList []interface{}

    for _, apiObject := range apiObjects {
        if apiObject == nil {
            continue
        }

        out := flattenLicenseMetadata(apiObject)

        if len(out) > 0 {
            tfList = append(tfList, out)
        }
    }

    return tfList
}

func flattenLicenseMetadata(apiObject *licensemanager.Metadata) map[string]interface{} {
    if apiObject == nil {
        return nil
    }
}

```

```

tfMap := map[string]interface{}{}

if v := apiObject.Name; v != nil
{
    tfMap["name"] = v
}

if v := apiObject.Value; v != nil {
    tfMap["value"] = v
}

return tfMap
}

func flattenReceivedMetadata(apiObject *licensemanager.ReceivedMetadata) map[string]interface{} {
if apiObject == nil {
    return nil
}

tfMap := map[string]interface{}{}

if v := apiObject.AllowedOperations; v != nil {
    tfMap["allowed_operations"] = v
}

if v := apiObject.ReceivedStatus; v != nil {
    tfMap["received_status"] = v
}

if v := apiObject.ReceivedStatusReason; v != nil {
    tfMap["received_status_reason"] = v
}

return tfMap
}

func flattenDateTimeRange(apiObject *licensemanager.DatetimeRange) map[string]interface{} {
if apiObject == nil {
    return nil
}

tfMap := map[string]interface{}{}

if v := apiObject.Begin; v != nil {
    tfMap["begin"] = v
}

```

```
if v := apiObject.End; v != nil {
    tfMap["end"] = v
}

return tfMap
}
```

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```

```
import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)
```

```
// ActivateLicense invokes the market.ActivateLicense API synchronously
// api document: https://help.aliyun.com/api/market/activatelicence.html
func (client *Client) ActivateLicense(request
*ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
    response = CreateActivateLicenseResponse()
    err = client.DoAction(request, response)
    return
}
```

```
// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicence.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan
*ActivateLicenseResponse, <-chan error) {
    responseChan := make(chan *ActivateLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.ActivateLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
}
```

```

}
return responseChan, errChan
}

// ActivateLicenseWithCallback invokes
// the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response
*ActivateLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *ActivateLicenseResponse
        var err error
        defer close(result)
        response, err = client.ActivateLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
    *requests.RpcRequest
    Identification string `position:"Query" name:"Identification"`
    LicenseCode    string `position:"Query" name:"LicenseCode"`
}

// ActivateLicenseResponse is the response struct for
// api ActivateLicense
type ActivateLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"`
    Success    bool  `json:"Success" xml:"Success"`
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
    request = &ActivateLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
}

```

```
return
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
    response = &ActivateLicenseResponse{
        BaseResponse: &responses.BaseResponse{ },
    }
    return
}

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```

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
```

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```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// ReprocessLicenseAssignmentRequestBuilder provides operations to call the reprocessLicenseAssignment method.  
type ReprocessLicenseAssignmentRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration configuration  
for the request such as headers, query parameters, and middleware options.  
type ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options
```

```

Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewReprocessLicenseAssignmentRequestBuilderInternal instantiates a new
ReprocessLicenseAssignmentRequestBuilder and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    m := &ReprocessLicenseAssignmentRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/me/microsoft.graph.reprocessLicenseAssignment";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters
= urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewReprocessLicenseAssignmentRequestBuilder instantiates a new ReprocessLicenseAssignmentRequestBuilder
and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewReprocessLicenseAssignmentRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation reprocess all group-based license assignments for the user. To learn more about
group-based licensing, see What is group-based licensing in Azure Active Directory. Also see Identify and resolve
license assignment problems for a group in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) CreatePostRequestInformation(ctx context.Context,
requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df63981
3ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post reprocess all group-based license assignments for the user. To learn more about group-based licensing, see

```

What is group-based licensing in Azure Active Directory. Also see Identify and resolve license assignment problems for a group in Azure Active

Directory for more details.

```
func (m *ReprocessLicenseAssignmentRequestBuilder) Post(ctx context.Context, requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bb
a17de0380ddda76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res
== nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
package api

import (
    "fmt"
    "io/ioutil"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`
}
```

```

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"`

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"`

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"`

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// Modules is a list
// of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
}

```

```

if err != nil {
    return "", err
}
defer closeResponseBody(resp)

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
    return "", err
}

return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license
// stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicenseReset(_ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicensePut(_ string, _ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

```

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package market

```
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//limitations under the License.  
//  
// Code generated by Alibaba Cloud SDK Code Generator.  
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"  
)  
  
// DescribeLicense invokes the market.DescribeLicense API synchronously  
// api document: https://help.aliyun.com/api/market/describelicense.html  
func (client *Client) DescribeLicense(request  
    *DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {  
    response = CreateDescribeLicenseResponse()  
    err = client.DoAction(request, response)  
    return  
}
```

```

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan
*DescribeLicenseResponse, <-chan error) {
    responseChan := make(chan *DescribeLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// DescribeLicenseWithCallback invokes
the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response
*DescribeLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeLicenseResponse
        var err error
        defer close(result)
        response, err = client.DescribeLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

```

```

// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
    *requests.RpcRequest
    LicenseCode string `position:"Query" name:"LicenseCode"`
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
    *responses.BaseResponse
    RequestId
    string `json:"RequestId" xml:"RequestId"`
    License License `json:"License" xml:"License"`
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
    request = &DescribeLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
    return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
    response = &DescribeLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

```

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package vsphere

```
import (  
    "errors"  
    "fmt"  
    "log"  
  
    "context"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
var (  
    // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.  
    // The error doesn't display the key itself for security reasons.  
    ErrNoSuchKeyFound = errors.New("The key was not found")  
    // ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is  
    // being removed  
    ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")  
)  
  
func resourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
  
        SchemaVersion: 1,  
  
        Create: resourceVSphereLicenseCreate,  
        Read:  resourceVSphereLicenseRead,  
        Update: resourceVSphereLicenseUpdate,  
        Delete: resourceVSphereLicenseDelete,  
  
        Schema: map[string]*schema.Schema{  
            "license_key": {  
                Type:     schema.TypeString,  
                Required: true,  
                ForceNew: true,  
            },  
        },  
    },  
}
```

```

true,
},
"labels": {
  Type:    schema.TypeMap,
  Optional: true,
  Elem:    &schema.Schema{Type: schema.TypeString},
},

// computed properties returned by the API
"edition_key": {
  Type:    schema.TypeString,
  Computed: true,
},
"name": {
  Type:    schema.TypeString,
  Computed: true,
},
"total": {
  Type:    schema.TypeInt,
  Computed: true,
},
"used": {
  Type:    schema.TypeInt,
  Computed: true,
},
},
}
}

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the create method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

key := d.Get("license_key").(string)

log.Println(" [INFO] Reading the key from the resource data")
var labelMap map[string]interface{ }
if labels, ok := d.GetOk("labels"); ok {
  labelMap = labels.(map[string]interface{ })
}

var info types.LicenseManagerLicenseInfo
var err error
switch
t := client.ServiceContent.About.ApiType; t {
case "HostAgent":

```

```

// Labels are not allowed in ESXi
if len(labelMap) != 0 {
    return errors.New("Labels are not allowed in ESXi")
}
info, err = manager.Update(context.TODO(), key, nil)

case "VirtualCenter":
    info, err = manager.Add(context.TODO(), key, nil)
    if err != nil {
        return err
    }
    err = updateLabels(manager, key, labelMap)

default:
    return fmt.Errorf("unsupported ApiType: %s", t)
}

if err != nil {
    return err
}

if err = DecodeError(info); err != nil {
    return err
}

// This can be used in the read method to set the computed parameters
d.SetId(info.LicenseKey)

return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the read method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager);
    info != nil {
        log.Println("[INFO] Setting the values")
        _ = d.Set("edition_key", info.EditionKey)
        _ = d.Set("total", info.Total)
        _ = d.Set("used", info.Used)
        _ = d.Set("name", info.Name)
        _ = d.Set("labels", keyValuesToMap(info.Labels))
    } else {
        return ErrNoSuchKeyFound
    }
}

```

```

return nil
}

// resourceVSPHERELicenseUpdate check for change in labels of the key and updates them.
func resourceVSPHERELicenseUpdate(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the update method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if key, ok := d.GetOk("license_key"); ok {
        licenseKey := key.(string)
        if !isKeyPresent(licenseKey, manager) {
            return ErrNoSuchKeyFound
        }

        if d.HasChange("labels") {
            labelMap := d.Get("labels").(map[string]interface{ })

            err := updateLabels(manager, licenseKey, labelMap)
            if err != nil {
                return err
            }
        }
    }

    return resourceVSPHERELicenseRead(d, meta)
}

func updateLabels(manager
*license.Manager, licenseKey string, labelMap map[string]interface{ }) error {
    for key, value := range labelMap {
        err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
        if err != nil {
            return err
        }
    }
    return nil
}

func resourceVSPHERELicenseDelete(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the delete method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if key := d.Get("license_key").(string); isKeyPresent(key, manager) {

```

```

err := manager.Remove(context.TODO(), key)

if err != nil {
    return err
}

// if the key is still present
if isKeyPresent(key, manager) {
    return ErrKeyCannotBeDeleted
}
d.SetId("")
return nil
}
return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
    // Use of decode is not returning labels so using list instead
    // Issue - https://github.com/vmware/govmomi/issues/797
    infoList,
    _ := manager.List(context.TODO())
    for _, info := range infoList {
        if info.LicenseKey == key {
            return &info
        }
    }
    return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
    infoList, _ := manager.List(context.TODO())

    for _, info := range infoList {
        if info.LicenseKey == key {
            return true
        }
    }

    return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {
    req := types.UpdateLicenseLabel{
        This:    m.Reference(),
        LicenseKey: licenseKey,
        LabelKey: key,
    }

```

```

LabelValue: val,
}

_, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
// to the server
func DecodeError(info types.LicenseManagerLicenseInfo)
error {
for _, property := range info.Properties {
if property.Key == "diagnostic" {
return errors.New(property.Value.(string))
}
}
}

return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
KVMMap := make(map[string]interface{})
for _, keyValue := range keyValues {
KVMMap[keyValue.Key] = keyValue.Value
}
return KVMMap
}

```

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package grant

```
import (  
  "context"  
  i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
```

```

abstractions-go"
  ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
"github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// GrantRequestBuilder provides operations to call the grant method.
type GrantRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}

// GrantRequestBuilderPostRequestConfiguration configuration for the request such as headers, query parameters,
and middleware options.
type GrantRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}

// NewGrantRequestBuilderInternal instantiates a new GrantRequestBuilder and sets the default values.
func NewGrantRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*GrantRequestBuild
er) {
    m := &GrantRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/shares/{sharedDriveItem%2Did}/permission/microsoft.graph.grant";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}

// NewGrantRequestBuilder instantiates a new GrantRequestBuilder and sets the default values.
func NewGrantRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*GrantRequestBuild
er) {
    urlParams
:= make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewGrantRequestBuilderInternal(urlParams, requestAdapter)
}

// CreatePostRequestInformation grant users access to a link represented by a [permission][].

```

```

func (m *GrantRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
GrantPostRequestBodyable, requestConfiguration
*GrantRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b74374
80d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {

        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post grant users access to a link represented by a [permission][].
func (m *GrantRequestBuilder) Post(ctx context.Context, body GrantPostRequestBodyable, requestConfiguration
*GrantRequestBuilderPostRequestConfiguration)(GrantResponseable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo, CreateGrantResponseFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(GrantResponseable), nil
}
Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt

```

dsymonds
cd1
wallclockbuilder
dansouza

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package models

```
import (  
  i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
  i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
  abstractions-go"
```

```

i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// LicenseAssignmentState
type LicenseAssignmentState struct {
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for
    serialization as well.
    additionalData map[string]interface{}
    // The assignedByGroup property
    assignedByGroup *string
    // The disabledPlans property
    disabledPlans []string
    // The error property
    error *string
    // The lastUpdatedDateTime property
    lastUpdatedDateTime *i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time
    // The OdataType property
    odataType *string
    // The skuId property
    skuId *string
    // The
    state property
    state *string
}
// NewLicenseAssignmentState instantiates a new licenseAssignmentState and sets the default values.
func NewLicenseAssignmentState>(*LicenseAssignmentState) {
    m := &LicenseAssignmentState{
    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateLicenseAssignmentStateFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseAssignmentStateFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseAssignmentState(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseAssignmentState) GetAdditionalData()(map[string]interface{}) {
    return m.additionalData
}
//
GetAssignedByGroup gets the assignedByGroup property value. The assignedByGroup property
func (m *LicenseAssignmentState) GetAssignedByGroup>(*string) {
    return m.assignedByGroup
}

```

```

}
// GetDisabledPlans gets the disabledPlans property value. The disabledPlans property
func (m *LicenseAssignmentState) GetDisabledPlans()([]string) {
    return m.disabledPlans
}
// GetError gets the error property value. The error property
func (m *LicenseAssignmentState) GetError()(*string) {
    return m.error
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseAssignmentState)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["assignedByGroup"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetAssignedByGrou
p)
    res["disabledPlans"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetDisabledPlans)
    res["error"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetError)
    res["lastUpdatedDateTime"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetTimeValue(m.SetLastUpdatedDate
Time)
    res["@odata.type"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["skuId"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)
    res["state"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetState)
    return res
}
// GetLastUpdatedDateTime gets the lastUpdatedDateTime property value. The lastUpdatedDateTime property
func (m *LicenseAssignmentState)
GetLastUpdatedDateTime()(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)
{
    return m.lastUpdatedDateTime
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseAssignmentState) GetOdataType()(*string) {
    return m.odataType
}
// GetSkuId gets the skuId property value. The skuId property
func (m *LicenseAssignmentState) GetSkuId()(*string) {
    return m.skuId
}

```

```

}
// GetState gets the state property value. The state property
func (m *LicenseAssignmentState) GetState>(*string) {
    return m.state
}
// Serialize serializes information the current object
func (m *LicenseAssignmentState) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteStringValue("assignedByGroup", m.GetAssignedByGroup())
        if err != nil {
            return err
        }
    }
    if m.GetDisabledPlans() != nil {
        err := writer.WriteCollectionOfStringValues("disabledPlans", m.GetDisabledPlans())
        if err != nil {
            return
err
        }
    }
    {
        err := writer.WriteStringValue("error", m.GetError())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteTimeValue("lastUpdatedDateTime", m.GetLastUpdatedDateTime())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("skuId", m.GetSkuId())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("state", m.GetState())
        if err != nil {

```

```

        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when
deserializing. Can be used for serialization as well.
func (m *LicenseAssignmentState) SetAdditionalData(value map[string]interface{})( ) {
    m.additionalData = value
}
// SetAssignedByGroup sets the assignedByGroup property value. The assignedByGroup property
func (m *LicenseAssignmentState) SetAssignedByGroup(value *string)( ) {
    m.assignedByGroup = value
}
// SetDisabledPlans sets the disabledPlans property value. The disabledPlans property
func (m *LicenseAssignmentState) SetDisabledPlans(value []string)( ) {
    m.disabledPlans = value
}
// SetError sets the error property value. The error property
func (m *LicenseAssignmentState) SetError(value *string)( ) {
    m.error = value
}
// SetLastUpdatedDateTime sets the lastUpdatedDateTime property value. The lastUpdatedDateTime property
func (m *LicenseAssignmentState) SetLastUpdatedDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)( ) {
    m.lastUpdatedDateTime = value
}
// SetOdataType sets the
@odata.type property value. The OdataType property
func (m *LicenseAssignmentState) SetOdataType(value *string)( ) {
    m.odatatype = value
}
// SetSkuId sets the skuId property value. The skuId property
func (m *LicenseAssignmentState) SetSkuId(value *string)( ) {
    m.skuId = value
}
// SetState sets the state property value. The state property
func (m *LicenseAssignmentState) SetState(value *string)( ) {
    m.state = value
}
}

```

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```

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```
package lambda
```

```
import (  
    "context"  
    "encoding/json"  
    "fmt"  
    "log"  
    "regexp"  
    "strings"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/lambda"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/create"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
    "github.com/hashicorp/terraform-provider-aws/internal/verify"  
)  
  
var functionRegexp = `^(arn:[\w-]+:lambda:)?([a-z]{2}-(?:[a-z]+-){1,2}\d{1})?(\d{12}:)?(function:)?([a-zA-Z0-9-  
_]+)(:(\${LATEST}|[a-zA-Z0-9-_]++))?$`  
  
// @SDKResource("aws_lambda_permission")  
func ResourcePermission()  
    *schema.Resource {  
    return &schema.Resource{  
        CreateWithoutTimeout: resourcePermissionCreate,  
        ReadWithoutTimeout:   resourcePermissionRead,  
        DeleteWithoutTimeout: resourcePermissionDelete,  
  
        Importer: &schema.ResourceImporter{  
            StateContext: resourcePermissionImport,  

```

```

},

Schema: map[string]*schema.Schema{
    "action": {
        Type:     schema.TypeString,
        Required: true,
        ForceNew: true,
        ValidateFunc: validPermissionAction(),
    },
    "event_source_token": {
        Type:     schema.TypeString,
        Optional: true,
        ForceNew: true,
        ValidateFunc: validPermissionEventSourceToken(),
    },
    "function_name": {
        Type:     schema.TypeString,
        Required: true,
        ForceNew: true,
        ValidateFunc: validFunctionName(),
    },
    "function_url_auth_type": {
        Type:     schema.TypeString,
        Optional: true,
        ForceNew: true,
        ValidateFunc: validation.StringInSlice(lambda.FunctionUrlAuthType_Values(),
false),
    },
    "principal": {
        Type:     schema.TypeString,
        Required: true,
        ForceNew: true,
    },
    "principal_org_id": {
        Type:     schema.TypeString,
        Optional: true,
        ForceNew: true,
    },
    "qualifier": {
        Type:     schema.TypeString,
        Optional: true,
        ForceNew: true,
        ValidateFunc: validQualifier(),
    },
    "source_account": {
        Type:     schema.TypeString,
        Optional: true,
        ForceNew: true,
    },

```

```

    ValidateFunc: verify.ValidAccountID,
  },
  "source_arn": {
    Type:      schema.TypeString,
    Optional:  true,
    ForceNew:  true,
    ValidateFunc: verify.ValidARN,
  },
  "statement_id": {
    Type:      schema.TypeString,
    Optional:  true,
    Computed:  true,
    ForceNew:  true,
    ValidateFunc: validPolicyStatementID(),
    ConflictsWith: []string{"statement_id_prefix"},
  },
  "statement_id_prefix": {
    Type:      schema.TypeString,
    Optional:  true,
    Computed:  true,
    ForceNew:  true,
    ValidateFunc: validPolicyStatementID(),
    ConflictsWith: []string{"statement_id"},
  },
}
}
}

```

```

func resourcePermissionCreate(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).LambdaConn(ctx)

    functionName := d.Get("function_name").(string)
    statementID := create.Name(d.Get("statement_id").(string), d.Get("statement_id_prefix").(string))

    // There is a bug in the API (reported and acknowledged by AWS)
    // which causes some permissions to be ignored when API calls are sent in parallel
    // We work around this bug via mutex
    conns.GlobalMutexKV.Lock(functionName)
    defer conns.GlobalMutexKV.Unlock(functionName)

    input := &lambda.AddPermissionInput{
        Action:      aws.String(d.Get("action").(string)),
        FunctionName: aws.String(functionName),
        Principal:   aws.String(d.Get("principal").(string)),
        StatementId: aws.String(statementID),
    }
}

```

```

if
v, ok := d.GetOk("event_source_token"); ok {
    input.EventSourceToken = aws.String(v.(string))
}

if v, ok := d.GetOk("function_url_auth_type"); ok {
    input.FunctionUrlAuthType = aws.String(v.(string))
}

if v, ok := d.GetOk("principal_org_id"); ok {
    input.PrincipalOrgID = aws.String(v.(string))
}

if v, ok := d.GetOk("qualifier"); ok {
    input.Qualifier = aws.String(v.(string))
}

if v, ok := d.GetOk("source_account"); ok {
    input.SourceAccount = aws.String(v.(string))
}

if v, ok := d.GetOk("source_arn"); ok {
    input.SourceArn = aws.String(v.(string))
}

log.Printf("[DEBUG] Adding Lambda Permission: %s", input)
// Retry for IAM and Lambda eventual consistency.
_, err := tfresource.RetryWhenAWSErrCodeEquals(ctx, propagationTimeout,
func() (interface{}, error) {
    return conn.AddPermissionWithContext(ctx, input)
},
lambda.ErrCodeResourceConflictException, lambda.ErrCodeResourceNotFoundException)

if err != nil {
    return sdkdiag.AppendErrorf(diags, "adding Lambda
Permission (%s/%s): %s", functionName, statementID, err)
}

d.SetId(statementID)

return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).LambdaConn(ctx)

```

```

functionName := d.Get("function_name").(string)
outputRaw, err := tfresource.RetryWhenNewResourceNotFound(ctx, propagationTimeout,
func() (interface{}, error) {
return FindPolicyStatementByTwoPartKey(ctx, conn, functionName, d.Id(), d.Get("qualifier").(string))
}, d.IsNewResource())

if !d.IsNewResource() && tfresource.NotFound(err) {
log.Printf("[WARN] Lambda Permission (%s/%s) not found, removing from state", functionName, d.Id())
d.SetId("")
return diags
}

if err != nil {
return sdkdiag.AppendErrorf(diags, "reading Lambda Permission (%s/%s): %s", functionName, d.Id(), err)
}

statement := outputRaw.(*PolicyStatement)
qualifier,
_ := GetQualifierFromAliasOrVersionARN(statement.Resource)

d.Set("qualifier", qualifier)

// Save Lambda function name in the same format
if strings.HasPrefix(functionName, "arn:"+meta.(*conns.AWSClient).Partition+":lambda:") {
// Strip qualifier off
trimmedArn := strings.TrimSuffix(statement.Resource, ":"+qualifier)
d.Set("function_name", trimmedArn)
} else {
functionName, err := GetFunctionNameFromARN(statement.Resource)

if err != nil {
return sdkdiag.AppendErrorf(diags, "reading Lambda Permission (%s/%s): %s", functionName, d.Id(), err)
}

d.Set("function_name", functionName)
}

d.Set("action", statement.Action)
// Check if the principal is a cross-account IAM role
if v, ok := statement.Principal.(map[string]interface{}); ok {
if _, ok := v["AWS"]; ok {
d.Set("principal", v["AWS"])
} else {
d.Set("principal", v["Service"])
}
} else if v, ok := statement.Principal.(string); ok {
d.Set("principal", v)
}

```

```

if stringEquals, ok := statement.Condition["StringEquals"];
ok {
    d.Set("source_account", stringEquals["AWS:SourceAccount"])
    d.Set("event_source_token", stringEquals["lambda:EventSourceToken"])
    d.Set("principal_org_id", stringEquals["aws:PrincipalOrgID"])
    d.Set("function_url_auth_type", stringEquals["lambda:FunctionUrlAuthType"])
}

if arnLike, ok := statement.Condition["ArnLike"]; ok {
    d.Set("source_arn", arnLike["AWS:SourceArn"])
}

d.Set("statement_id", statement.Sid)
d.Set("statement_id_prefix", create.NamePrefixFromName(statement.Sid))

return diags
}

func resourcePermissionDelete(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).LambdaConn(ctx)

    functionName := d.Get("function_name").(string)

    // There is a bug in the API (reported and acknowledged by AWS)
    // which causes some permissions to be ignored when API calls are sent in parallel
    // We work around this bug via mutex
    conns.GlobalMutexKV.Lock(functionName)
    defer
    conns.GlobalMutexKV.Unlock(functionName)

    input := &lambda.RemovePermissionInput{
        FunctionName: aws.String(functionName),
        StatementId: aws.String(d.Id()),
    }

    if v, ok := d.GetOk("qualifier"); ok {
        input.Qualifier = aws.String(v.(string))
    }

    log.Printf("[DEBUG] Removing Lambda Permission: %s", input)
    _, err := conn.RemovePermissionWithContext(ctx, input)

    if tfawserr.ErrCodeEquals(err, lambda.ErrCodeResourceNotFoundException) {
        return diags
    }
}

```

```

if err != nil {
    return sdkdiag.AppendErrorf(diags, "removing Lambda Permission (%s/%s): %s", functionName, d.Id(), err)
}

_, err = tfresource.RetryUntilNotFound(ctx, propagationTimeout, func() (interface{}, error) {
    return FindPolicyStatementByTwoPartKey(ctx, conn, functionName, d.Id(), d.Get("qualifier").(string))
})

if err != nil {
    return sdkdiag.AppendErrorf(diags, "waiting for Lambda Permission (%s/%s) delete: %s", functionName, d.Id(),
err)
}

return diags
}

func findPolicy(ctx context.Context,
conn *lambda.Lambda, input *lambda.GetPolicyInput) (*lambda.GetPolicyOutput, error) {
output, err := conn.GetPolicyWithContext(ctx, input)

if tfawserr.ErrCodeEquals(err, lambda.ErrCodeResourceNotFoundException) {
    return nil, &retry.NotFoundError{
        LastError: err,
        LastRequest: input,
    }
}

if err != nil {
    return nil, err
}

if output == nil {
    return nil, tfresource.NewEmptyResultError(input)
}

return output, nil
}

func FindPolicyStatementByTwoPartKey(ctx context.Context, conn *lambda.Lambda, functionName, statementID,
qualifier string) (*PolicyStatement, error) {
input := &lambda.GetPolicyInput{
    FunctionName: aws.String(functionName),
}

if qualifier != "" {
    input.Qualifier = aws.String(qualifier)
}

```

```

output, err := findPolicy(ctx, conn, input)

if err != nil {
    return nil, err
}

policy := Policy{}
err = json.Unmarshal([]byte(aws.StringValue(output.Policy)), &policy)

if err != nil {
    return nil, err
}

for _, v := range policy.Statement
{
    if v.Sid == statementID {
        return &v, nil
    }
}

return nil, &retry.NotFoundError{
    LastRequest: statementID,
    LastResponse: policy,
    Message:    fmt.Sprintf("Failed to find statement %q in Lambda policy:\n%s", statementID, policy.Statement),
}

func FindPolicyStatementByID(policy *Policy, id string) (*PolicyStatement, error) {
    log.Printf("[DEBUG] Received %d statements in Lambda policy: %s", len(policy.Statement), policy.Statement)
    for _, statement := range policy.Statement {
        if statement.Sid == id {
            return &statement, nil
        }
    }

    return nil, &retry.NotFoundError{
        LastRequest: id,
        LastResponse: policy,
        Message:    fmt.Sprintf("Failed to find statement %q in Lambda policy:\n%s", id, policy.Statement),
    }
}

func GetQualifierFromAliasOrVersionARN(arn string) (string, error) {
    matches := regexp.MustCompile(functionRegexp).FindStringSubmatch(arn)
    if len(matches) < 8 || matches[7] == "" {
        return "", fmt.Errorf("Invalid ARN or otherwise unable to get
qualifier from ARN (%q)",
arn)
    }
}

```

```

}

return matches[7], nil
}

func GetFunctionNameFromARN(arn string) (string, error) {
matches := regexp.MustCompile(functionRegexp).FindStringSubmatch(arn)
if len(matches) < 6 || matches[5] == "" {
return "", fmt.Errorf("Invalid ARN or otherwise unable to get qualifier from ARN (%q)",
arn)
}
return matches[5], nil
}

func resourcePermissionImport(ctx context.Context, d *schema.ResourceData, meta interface{ })
([]*schema.ResourceData, error) {
idParts := strings.Split(d.Id(), "/")
if len(idParts) != 2 || idParts[0] == "" || idParts[1] == "" {
return nil, fmt.Errorf("Unexpected format of ID (%q), expected FUNCTION_NAME/STATEMENT_ID or
FUNCTION_NAME:QUALIFIER/STATEMENT_ID", d.Id())
}

functionName := idParts[0]

input := &lambda.GetFunctionInput{FunctionName: &functionName}

var qualifier string
fnParts := strings.Split(functionName, ":")
if len(fnParts) == 2 {
functionName = fnParts[0]
qualifier = fnParts[1]
input.Qualifier = &qualifier
}
statementId
:= idParts[1]
log.Printf("[DEBUG] Importing Lambda Permission %s for function name %s", statementId, functionName)

conn := meta.(*conns.AWSCClient).LambdaConn(ctx)
getFunctionOutput, err := conn.GetFunctionWithContext(ctx, input)
if err != nil {
return nil, err
}

d.Set("function_name", getFunctionOutput.Configuration.FunctionArn)
d.Set("statement_id", statementId)
if qualifier != "" {
d.Set("qualifier", qualifier)
}
}

```

```

d.SetId(statementId)
return []*schema.ResourceData{d}, nil
}

type Policy struct {
    Version string
    Statement []PolicyStatement
    Id string
}

```

```

type PolicyStatement struct {
    Condition map[string]map[string]string
    Action string
    Resource string
    Effect string
    Principal interface{}
    Sid string
}

```

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```

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

```

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```

Names should be added to this file like so:
Name <email address>

An entry with two email addresses specifies that the
first address should be used in the submit logs and
that the second address should be recognized as the
same person when interacting with Rietveld.

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// AssignedLicenseCollectionResponseable  
type AssignedLicenseCollectionResponseable interface {  
    BaseCollectionPaginationCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]AssignedLicenseable)  
    SetValue(value []AssignedLicenseable())  
}
```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseUnitsDetail  
type LicenseUnitsDetail struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{ }  
    // The number of units that are enabled for the active subscription of the service SKU.  
    enabled *int32  
    // The OdataType property  
    odataType *string  
    // The number of units that are suspended because the subscription of the service SKU has been cancelled. The  
    units cannot be assigned but can still be reactivated before they are deleted.  
    suspended *int32  
    // The number of units that are in warning status. When the subscription of the service SKU has expired, the  
    customer  
    has a grace period to renew their subscription before it is cancelled (moved to a suspended state).  
    warning *int32  
}  
// NewLicenseUnitsDetail instantiates a new licenseUnitsDetail and sets the default values.  
func NewLicenseUnitsDetail>(*LicenseUnitsDetail) {  
    m := &LicenseUnitsDetail{  
    }  
}
```

```

    m.SetAdditionalData(make(map[string]interface{ }));
    return m
}
// CreateLicenseUnitsDetailFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseUnitsDetailFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseUnitsDetail(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseUnitsDetail) GetAdditionalData()(map[string]interface{ })
{
    return m.additionalData
}
// GetEnabled gets the enabled property value. The number of units that are enabled for the active subscription of the
service SKU.
func (m *LicenseUnitsDetail) GetEnabled()(*int32) {
    return m.enabled
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseUnitsDetail)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["enabled"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetEnabled)
    res["@odata.type"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["suspended"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetSuspended)
    res["warning"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetWarning)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseUnitsDetail) GetOdataType>(*string) {
    return m.odatatype
}
// GetSuspended gets the suspended property value. The number of units that are suspended because the subscription
of the service SKU has been cancelled. The units cannot be assigned but can still be reactivated before they are
deleted.
func (m *LicenseUnitsDetail) GetSuspended()(*int32) {
    return m.suspended
}

```

// GetWarning gets the warning property value. The number of units that are in warning status. When the subscription of the service SKU has expired, the customer has a grace period to renew their subscription before it is cancelled (moved to a suspended state).

```
func (m *LicenseUnitsDetail) GetWarning()(*int32) {  
    return m.warning  
}
```

// Serialize serializes information the current object

```
func (m *LicenseUnitsDetail)
```

```
Serialize(writer
```

```
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
```

```
{
```

```
    err := writer.WriteInt32Value("enabled", m.GetEnabled())
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
}
```

```
{
```

```
    err := writer.WriteStringValue("@odata.type", m.GetOdataType())
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
}
```

```
{
```

```
    err := writer.WriteInt32Value("suspended", m.GetSuspended())
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
}
```

```
{
```

```
    err := writer.WriteInt32Value("warning", m.GetWarning())
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
}
```

```
{
```

```
    err := writer.WriteAdditionalData(m.GetAdditionalData())
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
}
```

```
    return nil
```

```
}
```

// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI description found when deserializing. Can be used for serialization as well.

```
func
```

```
(m *LicenseUnitsDetail) SetAdditionalData(value map[string]interface{})( ) {
```

```
    m.additionalData = value
```

```
}
```

```

// SetEnabled sets the enabled property value. The number of units that are enabled for the active subscription of the
service SKU.
func (m *LicenseUnitsDetail) SetEnabled(value *int32)() {
    m.enabled = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *LicenseUnitsDetail) SetOdataType(value *string)() {
    m.odatatype = value
}
// SetSuspended sets the suspended property value. The number of units that are suspended because the subscription
of the service SKU has been cancelled. The units cannot be assigned but can still be reactivated before they are
deleted.
func (m *LicenseUnitsDetail) SetSuspended(value *int32)() {
    m.suspended = value
}
// SetWarning sets the warning property value. The number of units that are in warning status. When the
subscription of the service SKU has expired, the customer has a grace period to
renew their subscription before it is cancelled (moved to a suspended state).
func (m *LicenseUnitsDetail) SetWarning(value *int32)() {
    m.warning = value
}

```

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The lexer and parser borrow heavily from github.com/pelletier/go-toml. The

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schemaVersion: oss-license-declaration.cloud.ibm.com:v4

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source: <https://github.com/IBM-Cloud/terraform-provider-ibm>

issues: <https://github.ibm.com/blueprint/security-project-management/issues>

objectCodeOnly: false

additionalDownloads:

include:

- go modules

exclude:

- name: glide

documentation: Package manager not invoked in build nor runtime use

- name: nodejs

documentation: Package manager not invoked in build nor runtime use

- name: yarn

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package compute

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "io"  
    "net/http"  
    "net/url"  
    "time"
```

```

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                }),
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
            }),
        },
        TestIamPermissions: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
}

```

```

(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
    Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
    ...gax.CallOption) (*computepb.LicenseCode,
    error) {
    return c.internalClient.Get(ctx, req, opts...)
}

```

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {

```

```

return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are
// mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
// use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm
:= protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners

```

who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

```

```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

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```
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```

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```
*/
```

```
package license
```

```
import (  
    "context"
```

```
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)
```

```
type AssignmentManager struct {  
    object.Common  
}
```

```
func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)  
([]types.LicenseAssignmentManagerLicenseAssignment, error) {  
    req := types.QueryAssignedLicenses{  
        This:    m.Reference(),  
        EntityId:  
        id,  
    }  
}
```

```
res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)  
if err != nil {  
    return nil, err  
}
```

```
return res.Returnval, nil  
}
```

```
func (m AssignmentManager) Remove(ctx context.Context, id string) error {  
    req := types.RemoveAssignedLicense{
```

```

This: m.Reference(),
EntityId: id,
}

_, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
req := types.UpdateAssignedLicense{
This: m.Reference(),
Entity: id,
LicenseKey: key,
EntityDisplayName: name,
}

res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
return nil, err
}

return &res.Returnval, nil
}

```

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match.go, match_test.go:

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Data model artifacts for Prometheus.

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```
package assignlicense
```

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// AssignLicenseRequestBuilder provides operations to call the assignLicense method.  
type AssignLicenseRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query  
parameters, and  
middleware options.  
type AssignLicenseRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default  
values.  
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ  
estBuilder) {  
    m := &AssignLicenseRequestBuilder{  
    }  
    m.urlTemplate = "{+baseurl}/groups/{group%2Did}/microsoft.graph.assignLicense";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters = urlTplParams;  
    m.requestAdapter = requestAdapter;  
    return m  
}
```

```

}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder
and sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation add or remove licenses on the group. Licenses assigned to the group will be
assigned to all users in the group. To learn more about group-based licensing, see What is group-based licensing in
Azure Active Directory. To get the subscriptions available in the directory, perform a GET subscribedSkus request.
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post add or remove licenses on the group. Licenses assigned to the group will be assigned to all users in the group.
To learn more about group-based licensing, see What is group-based licensing in Azure Active Directory. To get the
subscriptions available in the directory, perform a GET subscribedSkus request.
func (m *AssignLicenseRequestBuilder)
Post(ctx context.Context, body AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Groupable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator

```

```

Value,
}
res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateGroupFromDiscriminatorValue
, errorMapping)
if err != nil {
return nil, err
}
if res == nil {
return
nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Groupable), nil
}

```

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Portions adapted from python-unidiff:

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package events

```
import (  
    "context"  
    "encoding/json"  
    "fmt"  
    "log"  
    "regexp"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/aws/arn"  
    "github.com/aws/aws-sdk-go/aws/awsutil"  
    "github.com/aws/aws-sdk-go/service/eventbridge"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
)  
  
// @SDKResource("aws_cloudwatch_event_permission")  
func ResourcePermission() *schema.Resource {  
    return &schema.Resource{  
        CreateWithoutTimeout: resourcePermissionCreate,  
        ReadWithoutTimeout:   resourcePermissionRead,  
        UpdateWithoutTimeout: resourcePermissionUpdate,  
        DeleteWithoutTimeout:  
        resourcePermissionDelete,  
        Importer: &schema.ResourceImporter{  
            StateContext: schema.ImportStatePassthroughContext,  
        },  
  
        Schema: map[string]*schema.Schema{
```

```

"action": {
  Type:      schema.TypeString,
  Optional:  true,
  Default:   "events:PutEvents",
  ValidateFunc: validatePermissionAction,
},
"condition": {
  Type:      schema.TypeList,
  Optional:  true,
  MaxItems:  1,
  Elem:      &schema.Resource{
    Schema: map[string]*schema.Schema{
      "key": {
        Type:      schema.TypeString,
        Required:   true,
        ValidateFunc: validation.StringInSlice([]string{"aws:PrincipalOrgID"}, false),
      },
      "type": {
        Type:      schema.TypeString,
        Required:   true,
        ValidateFunc: validation.StringInSlice([]string{"StringEquals"}, false),
      },
      "value": {
        Type:      schema.TypeString,
        Required:   true,
        ValidateFunc: validation.NoZeroValues,
      },
    },
  },
},
"event_bus_name":
{
  Type:      schema.TypeString,
  Optional:  true,
  ForceNew:  true,
  ValidateFunc: validBusName,
  Default:   DefaultEventBusName,
},
"principal": {
  Type:      schema.TypeString,
  Required:   true,
  ValidateFunc: validatePermissionPrincipal,
},
"statement_id": {
  Type:      schema.TypeString,
  Required:   true,
  ForceNew:  true,
  ValidateFunc: validatePermissionStatementID,
}

```

```

    },
  },
}
}

```

```

func resourcePermissionCreate(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).EventsConn(ctx)

    eventBusName := d.Get("event_bus_name").(string)
    statementID := d.Get("statement_id").(string)

    input := eventbridge.PutPermissionInput{
        Action:    aws.String(d.Get("action").(string)),
        Condition: expandCondition(d.Get("condition").([]interface{})),
        EventBusName: aws.String(eventBusName),
        Principal:
            aws.String(d.Get("principal").(string)),
        StatementId: aws.String(statementID),
    }

    log.Printf("[DEBUG] Creating EventBridge permission: %s", input)
    _, err := conn.PutPermissionWithContext(ctx, &input)
    if err != nil {
        return sdkdiag.AppendErrorf(diags, "Creating EventBridge permission failed: %s", err)
    }

    id := PermissionCreateResourceID(eventBusName, statementID)
    d.SetId(id)

    return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

```

```

// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).EventsConn(ctx)

    eventBusName, statementID, err := PermissionParseResourceID(d.Id())
    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading EventBridge permission (%s): %s", d.Id(), err)
    }

    input := eventbridge.DescribeEventBusInput{
        Name:
            aws.String(eventBusName),
    }

    var output *eventbridge.DescribeEventBusOutput
    var policyStatement *PermissionPolicyStatement

```

```

// Especially with concurrent PutPermission calls there can be a slight delay
err = retry.RetryContext(ctx, propagationTimeout, func() *retry.RetryError {
    log.Printf("[DEBUG] Reading EventBridge bus: %s", input)
    output, err = conn.DescribeEventBusWithContext(ctx, &input)
    if err != nil {
        return retry.NonRetryableError(fmt.Errorf("reading EventBridge permission (%s) failed: %w", d.Id(), err))
    }

    policyStatement, err = getPolicyStatement(output, statementID)
    if err != nil {
        return retry.RetryableError(err)
    }
    return nil
})

if tfresource.TimedOut(err) {
    output, err = conn.DescribeEventBusWithContext(ctx, &input)
    if output != nil {
        policyStatement, err = getPolicyStatement(output, statementID)
    }
}

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] EventBridge permission (%s) not found, removing from state",
d.Id())
    d.SetId("")
    return diags
}
if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading EventBridge permission (%s): %s", d.Id(), err)
}

d.Set("action", policyStatement.Action)
busName := aws.StringValue(output.Name)
if busName == "" {
    busName = DefaultEventBusName
}
d.Set("event_bus_name", busName)

if err := d.Set("condition", flattenPermissionPolicyStatementCondition(policyStatement.Condition)); err != nil {
    return sdkdiag.AppendErrorf(diags, "setting condition: %s", err)
}

switch principal := policyStatement.Principal.(type) {
case string:
    d.Set("principal", principal)
case map[string]interface{}:

```

```

if v, ok := principal["AWS"].(string); ok {
    if arn.IsARN(v) {
        principalARN, err := arn.Parse(v)

        if err != nil {
            return sdkdiag.AppendErrorf(diags, "parsing EventBridge Permission (%s) principal as ARN (%s): %s", d.Id(), v,
err)
        }

        d.Set("principal", principalARN.AccountID)
    } else {
        d.Set("principal", v)
    }
}

d.Set("statement_id",
policyStatement.Sid)

return diags
}

func getPolicyStatement(output *eventbridge.DescribeEventBusOutput, statementID string)
(*PermissionPolicyStatement, error) {
    var policyDoc PermissionPolicyDoc

    if output == nil || output.Policy == nil {
        return nil, &retry.NotFoundError{
            Message:    fmt.Sprintf("EventBridge permission %q not found", statementID),
            LastResponse: output,
        }
    }

    err := json.Unmarshal([]byte(*output.Policy), &policyDoc)
    if err != nil {
        return nil, fmt.Errorf("reading EventBridge permission (%s): %w", statementID, err)
    }

    return FindPermissionPolicyStatementByID(&policyDoc, statementID)
}

func resourcePermissionUpdate(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).EventsConn(ctx)

    eventBusName, statementID, err := PermissionParseResourceID(d.Id())
    if err != nil {
        return sdkdiag.AppendErrorf(diags, "updating EventBridge permission

```

```

(%s): %s", d.Id(), err)
}
input := eventbridge.PutPermissionInput{
    Action:    aws.String(d.Get("action").(string)),
    Condition:  expandCondition(d.Get("condition").([]interface{})),
    EventBusName: aws.String(eventBusName),
    Principal:  aws.String(d.Get("principal").(string)),
    StatementId: aws.String(statementID),
}

_, err = conn.PutPermissionWithContext(ctx, &input)
if err != nil {
    return sdkdiag.AppendErrorf(diags, "updating EventBridge permission (%s): %s", d.Id(), err)
}

return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

func resourcePermissionDelete(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).EventsConn(ctx)

    eventBusName, statementID, err := PermissionParseResourceID(d.Id())
    if err != nil {
        return sdkdiag.AppendErrorf(diags, "deleting EventBridge permission (%s): %s", d.Id(), err)
    }
    input := eventbridge.RemovePermissionInput{
        EventBusName:
        aws.String(eventBusName),
        StatementId: aws.String(statementID),
    }

    log.Printf("[DEBUG] Delete EventBridge permission: %s", input)
    _, err = conn.RemovePermissionWithContext(ctx, &input)
    if tfawserr.ErrCodeEquals(err, eventbridge.ErrCodeResourceNotFoundException) {
        return diags
    }
    if err != nil {
        return sdkdiag.AppendErrorf(diags, "deleting EventBridge permission (%s): %s", d.Id(), err)
    }
    return diags
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_Reque
stParameters
func validatePermissionAction(v interface{ }, k string) (ws []string, es []error) {
    value := v.(string)

```

```

if (len(value) < 1) || (len(value) > 64) {
    es = append(es, fmt.Errorf("%q must be between 1 and 64 characters", k))
}

if !regexp.MustCompile(`^events:[a-zA-Z]+$`).MatchString(value) {
    es = append(es, fmt.Errorf("%q must be: events: followed by one or more alphabetic characters", k))
}
return
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_RequestParameters
func
validatePermissionPrincipal(v interface{ }, k string) (ws []string, es []error) {
    value := v.(string)
    if !regexp.MustCompile(`^\d{12}$`).MatchString(value) {
        es = append(es, fmt.Errorf("%q must be * or a 12 digit AWS account ID", k))
    }
    return
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_RequestParameters
func validatePermissionStatementID(v interface{ }, k string) (ws []string, es []error) {
    value := v.(string)
    if (len(value) < 1) || (len(value) > 64) {
        es = append(es, fmt.Errorf("%q must be between 1 and 64 characters", k))
    }

    if !regexp.MustCompile(`^[a-zA-Z0-9-_$]+$`).MatchString(value) {
        es = append(es, fmt.Errorf("%q must be one or more alphanumeric, hyphen, or underscore characters", k))
    }
    return
}

// PermissionPolicyDoc represents the Policy attribute of DescribeEventBus
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type
PermissionPolicyDoc struct {
    Version string
    ID      string          `json:"Id,omitempty"`
    Statements []PermissionPolicyStatement `json:"Statement"`
}

// String returns the string representation
func (d PermissionPolicyDoc) String() string {

```

```

return awsutil.Prettify(d)
}

// GoString returns the string representation
func (d PermissionPolicyDoc) GoString() string {
return d.String()
}

// PermissionPolicyStatement represents the Statement attribute of PermissionPolicyDoc
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyStatement struct {
Sid string
Effect string
Action string
Condition *PermissionPolicyStatementCondition `json:"Condition,omitempty"`
Principal interface{} // "*" or {"AWS": "arn:aws:iam::111111111111:root"}
Resource string
}

// String returns the string representation
func (s PermissionPolicyStatement)
String() string {
return awsutil.Prettify(s)
}

// GoString returns the string representation
func (s PermissionPolicyStatement) GoString() string {
return s.String()
}

// PermissionPolicyStatementCondition represents the Condition attribute of PermissionPolicyStatement
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyStatementCondition struct {
Key string
Type string
Value string
}

// String returns the string representation
func (c PermissionPolicyStatementCondition) String() string {
return awsutil.Prettify(c)
}

// GoString returns the string representation
func (c PermissionPolicyStatementCondition) GoString() string {
return c.String()
}

```

```

func (c *PermissionPolicyStatementCondition) UnmarshalJSON(b []byte) error {
    var out PermissionPolicyStatementCondition

    // JSON representation: {"Condition":{"StringEquals":{"aws:PrincipalOrgID":"o-0123456789"}}}
    var data map[string]map[string]string
    if
    err := json.Unmarshal(b, &data); err != nil {
        return err
    }

    for typeKey, typeValue := range data {
        for conditionKey, conditionValue := range typeValue {
            out = PermissionPolicyStatementCondition{
                Key: conditionKey,
                Type: typeKey,
                Value: conditionValue,
            }
        }
    }

    *c = out
    return nil
}

func FindPermissionPolicyStatementByID(policy *PermissionPolicyDoc, id string) (
    *PermissionPolicyStatement, error) {
    log.Printf("[DEBUG] Finding statement (%s) in EventBridge permission policy: %s", id, policy)
    for _, statement := range policy.Statements {
        if statement.Sid == id {
            return &statement, nil
        }
    }

    return nil, &retry.NotFoundError{
        LastRequest: id,
        LastResponse: policy,
        Message:    fmt.Sprintf("Failed to find statement (%s) in EventBridge permission policy: %s", id, policy),
    }
}

func expandCondition(l []interface{}) *eventbridge.Condition {
    if len(l) == 0 || l[0] == nil {
        return nil
    }

    m := l[0].(map[string]interface{})

    condition

```

```

:= &eventbridge.Condition{
    Key: aws.String(m["key"].(string)),
    Type: aws.String(m["type"].(string)),
    Value: aws.String(m["value"].(string)),
}

return condition
}

func flattenPermissionPolicyStatementCondition(c *PermissionPolicyStatementCondition) []interface{} {
    if c == nil {
        return []interface{}{}
    }

    m := map[string]interface{}{
        "key": c.Key,
        "type": c.Type,
        "value": c.Value,
    }

    return []interface{}{m}
}

```

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// License is a nested struct in market response
type License struct {
    LicenseStatus string `json:"LicenseStatus" xml:"LicenseStatus"`
    LicenseCode string `json:"LicenseCode" xml:"LicenseCode"`
    InstanceId string `json:"InstanceId" xml:"InstanceId"`
    CreateTime string `json:"CreateTime"
xml:"CreateTime"`
    ExpiredTime string `json:"ExpiredTime" xml:"ExpiredTime"`
    ActivateTime string `json:"ActivateTime" xml:"ActivateTime"``
```

```

ProductSkuId string `json:"ProductSkuId" xml:"ProductSkuId"`
ProductCode string `json:"ProductCode" xml:"ProductCode"`
ProductName string `json:"ProductName" xml:"ProductName"`
SupplierName string `json:"SupplierName" xml:"SupplierName"`
ExtendInfo ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"`
ExtendArray ExtendArray `json:"ExtendArray" xml:"ExtendArray"`
}
/**
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 */

/**
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 */

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty"
xmlrpc:"enabledFlag,omitempty"`

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`

```

```
// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"`
}
```

```
// no documentation yet
type Legal_RegulatedWorkload_Type struct {
Entity
```

```
// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`
```

```
// no documentation yet
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`
```

```
// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}
```

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```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantResponseable  
type GrantResponseable interface {  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.BaseCollectionPaginationCountRespo  
nseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable)  
    SetValue(value []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable)()
```

}

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*/

package license

```

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return
    &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:    m.Reference(),
        LicenseKey: key,
        Labels:  mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

```

```

}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:    m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:
            m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:    m.Reference(),
        LicenseKey: key,
        Labels:  mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {

```

```

    return nil, err
}

return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil
    {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }

    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }

    return &am, nil
}

type licenseFeature struct {
    name string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)

    f := strings.Split(feature, ":")

    lf.name = f[0]

    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

```

```

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)

        if !ok {
            continue
        }

        lf := parseLicenseFeature(kv.Key)

        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type
InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

```

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```
package acmpca
```

```
import (  
    "context"  
    "fmt"  
    "log"  
    "strings"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/acmpca"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
    "github.com/hashicorp/terraform-provider-aws/internal/flex"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
    "github.com/hashicorp/terraform-provider-aws/internal/verify"  
)  
  
// @SDKResource("aws_acmpca_permission")  
func ResourcePermission() *schema.Resource {  
    return &schema.Resource{  
        CreateWithoutTimeout: resourcePermissionCreate,  
        ReadWithoutTimeout:   resourcePermissionRead,  
        DeleteWithoutTimeout: resourcePermissionDelete,  
  
        Schema: map[string]*schema.Schema{  
            "actions":  
            {  
                Type:     schema.TypeSet,  
                Required: true,  
                ForceNew: true,  
                Elem: &schema.Schema{  
                    Type:     schema.TypeString,  
                    ValidateFunc: validation.StringInSlice(acmpca.ActionType_Values(), false),  
                },  
            },  
            "certificate_authority_arn": {  
                Type:     schema.TypeString,  
                ForceNew: true,  
                Required: true,  
                ValidateFunc: verify.ValidARN,  
            },  
            "policy": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
        },  
    }  
}
```

```

    },
    "principal": {
        Type: schema.TypeString,
        ForceNew: true,
        Required: true,
        ValidateFunc: validation.StringInSlice([]string{
            "acm.amazonaws.com",
        }, false),
    },
    "source_account": {
        Type: schema.TypeString,
        ForceNew: true,
        Optional: true,
        Computed: true,
    },
},
}
}

func resourcePermissionCreate(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).ACMPCACConn(ctx)

    caARN
    := d.Get("certificate_authority_arn").(string)
    principal := d.Get("principal").(string)
    sourceAccount := d.Get("source_account").(string)
    id := PermissionCreateResourceID(caARN, principal, sourceAccount)
    input := &acmpca.CreatePermissionInput{
        Actions: flex.ExpandStringSet(d.Get("actions").(*schema.Set)),
        CertificateAuthorityArn: aws.String(caARN),
        Principal: aws.String(principal),
    }

    if sourceAccount != "" {
        input.SourceAccount = aws.String(sourceAccount)
    }

    log.Printf("[DEBUG] Creating ACM PCA Permission: %s", input)
    _, err := conn.CreatePermissionWithContext(ctx, input)

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "creating ACM PCA Permission (%s): %s", id, err)
    }

    d.SetId(id)

    return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

```

```

}

func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).ACMPCACConn(ctx)

    caARN,
    principal, sourceAccount, err := PermissionParseResourceID(d.Id())

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading ACM PCA Permission (%s): %s", d.Id(), err)
    }

    permission, err := FindPermission(ctx, conn, caARN, principal, sourceAccount)

    if !d.IsNewResource() && tfresource.NotFound(err) {
        log.Printf("[WARN] ACM PCA Permission (%s) not found, removing from state", d.Id())
        d.SetId("")
        return diags
    }

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading ACM PCA Permission (%s): %s", d.Id(), err)
    }

    d.Set("actions", aws.StringValueSlice(permission.Actions))
    d.Set("certificate_authority_arn", permission.CertificateAuthorityArn)
    d.Set("policy", permission.Policy)
    d.Set("principal", permission.Principal)
    d.Set("source_account", permission.SourceAccount)

    return diags
}

func resourcePermissionDelete(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).ACMPCACConn(ctx)

    caARN,
    principal, sourceAccount, err := PermissionParseResourceID(d.Id())

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "deleting ACM PCA Permission (%s): %s", d.Id(), err)
    }

    input := &acmpca.DeletePermissionInput{
        CertificateAuthorityArn: aws.String(caARN),
        Principal:               aws.String(principal),
    }

```

```

}

if sourceAccount != "" {
    input.SourceAccount = aws.String(sourceAccount)
}

log.Printf("[DEBUG] Deleting ACM PCA Permission: %s", d.Id())
_, err = conn.DeletePermissionWithContext(ctx, input)

if tfawserr.ErrCodeEquals(err, acmpca.ErrCodeResourceNotFoundException) {
    return diags
}

if err != nil {
    return sdkdiag.AppendErrorf(diags, "deleting ACM PCA Permission (%s): %s", d.Id(), err)
}

return diags
}

const permissionIDSeparator = ","

func PermissionCreateResourceID(caARN, principal, sourceAccount string) string {
    parts := []string{caARN, principal, sourceAccount}
    id := strings.Join(parts, permissionIDSeparator)

    return
    id
}

func PermissionParseResourceID(id string) (string, string, string, error) {
    parts := strings.Split(id, permissionIDSeparator)

    if len(parts) == 3 && parts[0] != "" && parts[1] != "" {
        return parts[0], parts[1], parts[2], nil
    }

    return "", "", "", fmt.Errorf("unexpected format for ID (%[1]s), expected
CertificateAuthorityARN%[2]sPrincipal%[2]sSourceAccount", id, permissionIDSeparator)
}

package models

import (
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// LicenseProcessingStateable

```

```
type LicenseProcessingStateable interface {
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetOdataType()*string
    GetState()*string
    SetOdataType(value *string)()
    SetState(value *string)()
}
```

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import (

 "errors"

)

// Provides operations to manage the collection of agreement entities.

type MicrosoftStoreForBusinessLicenseType int

const (

 OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE MicrosoftStoreForBusinessLicenseType = iota

 ONLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE

)

func (i MicrosoftStoreForBusinessLicenseType) String() string {

 return []string{"offline", "online"}[i]

}

func ParseMicrosoftStoreForBusinessLicenseType(v string) (interface{ }, error) {

 result := OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE

 switch v {

```

    case "offline":
        result = OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE
    case "online":
        result = ONLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE
    default:
        return 0, errors.New("Unknown MicrosoftStoreForBusinessLicenseType value: " + v)
}
return &result, nil
}
func SerializeMicrosoftStoreForBusinessLicenseType(values []MicrosoftStoreForBusinessLicenseType) []string {
    result := make([]string, len(values))
    for i, v := range values {
        result[i] = v.String()
    }
    return result
}

```

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseAssignmentStateCollectionResponseable  
type LicenseAssignmentStateCollectionResponseable interface {
```

```
BaseCollectionPaginationCountResponseable
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
GetValue()([]LicenseAssignmentStateable)
SetValue(value []LicenseAssignmentStateable)()
}
```

Alrux Go EXTensions (AGExt) - package levenshtein

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package grant

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)
```

```
// GrantResponse provides operations to call the grant method.
```

```
type GrantResponse struct {
```

```
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.BaseCollectionPaginationCountRespo  
    nse
```

```
    // The value property
```

```
    value []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable
```

```
}
```

```
// NewGrantResponse instantiates a new grantResponse and sets the default values.
```

```
func NewGrantResponse>(*GrantResponse) {
```

```
    m := &GrantResponse{
```

```
        BaseCollectionPaginationCountResponse:
```

```
        *iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.NewBaseCollectionPaginationCount  
        Response(),
```

```
    }
```

```
    return m
```

```
}
```

```
// CreateGrantResponseFromDiscriminatorValue creates a new instance of the appropriate class based on  
discriminator value
```

```

func CreateGrantResponseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewGrantResponse(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *GrantResponse)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreatePermissionFromDiscriminatorValue ,
m.SetValue)
    return res
}
// GetValue gets the value property
value. The value property
func (m *GrantResponse)
GetValue()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable) {
    return m.value
}
// Serialize serializes information the current object
func (m *GrantResponse) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *GrantResponse) SetValue(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable)()
{
    m.value = value
}
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```

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```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// AssignedLicense  
type AssignedLicense struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{}  
    // A collection of the unique identifiers for plans that have been disabled.  
    disabledPlans []string  
    // The OdataType property  
    odataType *string  
    // The unique identifier for the SKU.  
    skuId *string  
}  
// NewAssignedLicense instantiates a new assignedLicense and sets the default values.  
func NewAssignedLicense>(*AssignedLicense) {  
    m := &AssignedLicense{  
    }  
    m.SetAdditionalData(make(map[string]interface{}));  
    return m  
}
```

```

// CreateAssignedLicenseFromDiscriminatorValue
creates a new instance of the appropriate class based on discriminator value
func CreateAssignedLicenseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignedLicense(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignedLicense) GetAdditionalData()(map[string]interface{}) {
    return m.additionalData
}
// GetDisabledPlans gets the disabledPlans property value. A collection of the unique identifiers for plans that have
been disabled.
func (m *AssignedLicense) GetDisabledPlans()([]string) {
    return m.disabledPlans
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignedLicense)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error))
{
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["disabledPlans"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g", m.SetDisabledPlans)
    res["@odata.type"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetString(m.SetOdataType)
    res["skuId"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetString(m.SetSkuId)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *AssignedLicense) GetOdataType>(*string) {
    return m.odataType
}
// GetSkuId gets the skuId property value. The unique identifier for the SKU.
func (m *AssignedLicense) GetSkuId>(*string) {
    return m.skuId
}
// Serialize serializes information the current object
func (m *AssignedLicense) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetDisabledPlans() != nil {
        err := writer.WriteCollectionOfStringValues("disabledPlans", m.GetDisabledPlans())
        if err != nil {

```

```

        return err
    }
}
{
    err := writer.WriteStringValue("@odata.type", m.GetOdataType())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteStringValue("skuId", m.GetSkuId())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignedLicense) SetAdditionalData(value map[string]interface{})() {
    m.additionalData
= value
}
// SetDisabledPlans sets the disabledPlans property value. A collection of the unique identifiers for plans that have
been disabled.
func (m *AssignedLicense) SetDisabledPlans(value []string)() {
    m.disabledPlans = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *AssignedLicense) SetOdataType(value *string)() {
    m.odataType = value
}
// SetSkuId sets the skuId property value. The unique identifier for the SKU.
func (m *AssignedLicense) SetSkuId(value *string)() {
    m.skuId = value
}

```

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package licensedetails

```
import (  
    "context"  
    i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31ced02e  
    "github.com/microsoftgraph/msgraph-sdk-go/users/item/licensedetails/count"  
)
```

// LicenseDetailsRequestBuilder provides operations to manage the licenseDetails property of the microsoft.graph.user entity.

```
type LicenseDetailsRequestBuilder struct {
```

```
    // Path parameters for the request
```

```
    pathParameters map[string]string
```

```
    // The request adapter to use to execute the requests.
```

```
    requestAdapter i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
```

```
    // Url template to use to build
```

```
the URL for the current request builder
```

```
    urlTemplate string
```

```
}
```

// LicenseDetailsRequestBuilderGetQueryParameters retrieve a list of licenseDetails objects for enterprise users.

This API returns details for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.

```
type LicenseDetailsRequestBuilderGetQueryParameters struct {
```

```
    // Include count of items
```

```
    Count *bool `uriparametername:"%24count"`
```

```
    // Expand related entities
```

```
    Expand []string `uriparametername:"%24expand"`
```

```

// Filter items by property values
Filter *string `uriparametername:"%24filter"`
// Order items by property values
Orderby []string `uriparametername:"%24orderby"`
// Search items by search phrases
Search *string `uriparametername:"%24search"`
// Select properties to be returned
Select []string `uriparametername:"%24select"`
// Skip the first n items
Skip *int32 `uriparametername:"%24skip"`
// Show only the first n items
Top *int32 `uriparametername:"%24top"`
}
// LicenseDetailsRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderGetRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
// Request query parameters
QueryParameters *LicenseDetailsRequestBuilderGetQueryParameters
}
// LicenseDetailsRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderPostRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsRequestBuilderInternal instantiates a new LicenseDetailsRequestBuilder
and sets the default values.
func NewLicenseDetailsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
m := &LicenseDetailsRequestBuilder{
}
m.urlTemplate =
"+baseurl}/users/{user%2Did}/licenseDetails{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%2
4select,%24expand}";
urlTplParams := make(map[string]string)
for idx, item := range pathParameters {
urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m

```

```

}
// NewLicenseDetailsRequestBuilder instantiates a new LicenseDetailsRequestBuilder and sets the default values.
func NewLicenseDetailsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"]
= rawUrl
    return NewLicenseDetailsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *LicenseDetailsRequestBuilder)
Count()(i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e.CountRequestBuilder) {
    return
i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e.NewCountRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// CreateGetRequestInformation retrieve a list of licenseDetails objects for enterprise users. This API returns details
for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePostRequestInformation create new navigation property to licenseDetails for users
func (m *LicenseDetailsRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters

```

```

requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
requestInfo.Headers["Accept"] = "application/json"
requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
if requestConfiguration != nil {
    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Get retrieve a list of licenseDetails objects for enterprise users. This API returns details for licenses that are
directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder)
Get(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda
76f641a29edf2b242.LicenseDetailsCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsCollectionRespo
nseFromDiscriminatorValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsCollectionRespon
seable), nil
}
// Post create new navigation property to licenseDetails for users
func (m *LicenseDetailsRequestBuilder) Post(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {

```

```

    return nil, err
  }
  errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}
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```

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Version 3, 29 June 2007

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package licensedetails

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d  
    "github.com/microsoftgraph/msgraph-sdk-go/me/licensedetails/count"  
)  
  
// LicenseDetailsRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.  
type LicenseDetailsRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL  
    for the current request builder  
    urlTemplate string  
}  
  
// LicenseDetailsRequestBuilderGetQueryParameters retrieve a list of licenseDetails objects for enterprise users.  
This API returns details for licenses that are directly assigned and those transitively assigned through memberships  
in licensed groups.  
type LicenseDetailsRequestBuilderGetQueryParameters struct {  
    // Include count of items  
    Count *bool `uriparametername:"%24count"`  
    // Expand related entities  
    Expand []string `uriparametername:"%24expand"`  
    // Filter items by property values  
    Filter *string `uriparametername:"%24filter"`  
    // Order items by property values  
    Orderby []string `uriparametername:"%24orderby"`  
    // Search items by search phrases
```

```

Search *string `uriparametername:"%24search"`
// Select properties to be returned
Select []string `uriparametername:"%24select"`
// Skip the first n items
Skip *int32 `uriparametername:"%24skip"`
// Show only the first n items

Top *int32 `uriparametername:"%24top"`
}
// LicenseDetailsRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderGetRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
// Request query parameters
QueryParameters *LicenseDetailsRequestBuilderGetQueryParameters
}
// LicenseDetailsRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderPostRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsRequestBuilderInternal instantiates a new LicenseDetailsRequestBuilder and
sets the default values.
func NewLicenseDetailsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
m := &LicenseDetailsRequestBuilder{
}
m.urlTemplate =
"+baseurl}/me/licenseDetails{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%24select,%24expa
nd}";
urlTplParams := make(map[string]string)
for idx, item := range pathParameters {
urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewLicenseDetailsRequestBuilder instantiates a new LicenseDetailsRequestBuilder and sets the default values.
func NewLicenseDetailsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ

```

```

estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] =
    rawUrl
    return NewLicenseDetailsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *LicenseDetailsRequestBuilder)
Count()(i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d.CountRequestBuilder) {
    return
i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d.NewCountRequestBuilderInternal(m.p
athParameters, m.requestAdapter);
}
// CreateGetRequestInformation retrieve a list of licenseDetails objects for enterprise users. This API returns details
for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePostRequestInformation create new navigation property to licenseDetails for me
func (m *LicenseDetailsRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {

```

```

    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Get retrieve a list of licenseDetails objects for enterprise users. This API returns details for licenses that are
directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) Get(ctx context.Context,
requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda
76f641a29edf2b242.LicenseDetailsCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsCollectionRespo
nseFromDiscriminatorValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsCollectionRespos
eable),
    nil
}
// Post create new navigation property to licenseDetails for me
func (m *LicenseDetailsRequestBuilder) Post(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {

```

```

    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err
:= m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}

```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseDetailsCollectionResponse  
type LicenseDetailsCollectionResponse struct {  
    BaseCollectionPaginationCountResponse  
    // The value property  
    value []LicenseDetailsable  
}  
// NewLicenseDetailsCollectionResponse instantiates a new LicenseDetailsCollectionResponse and sets the default  
values.  
func NewLicenseDetailsCollectionResponse>(*LicenseDetailsCollectionResponse) {  
    m := &LicenseDetailsCollectionResponse{  
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),  
    }  
    return m  
}  
// CreateLicenseDetailsCollectionResponseFromDiscriminatorValue creates a new instance of the appropriate class  
based on discriminator value  
func CreateLicenseDetailsCollectionResponseFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewLicenseDetailsCollectionResponse(), nil  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *LicenseDetailsCollectionResponse)
```

```

GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateL
icenseDetailsFromDiscriminatorValue , m.SetValue)
    return res
}
// GetValue gets the value property value. The value property
func (m *LicenseDetailsCollectionResponse) GetValue()([]LicenseDetailsable) {
    return m.value
}
// Serialize serializes information the current object
func (m *LicenseDetailsCollectionResponse)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *LicenseDetailsCollectionResponse) SetValue(value []LicenseDetailsable)() {
    m.value = value
}
package assignlicense

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
"github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
"github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// AssignLicenseRequestBuilder provides operations to call the assignLicense method.

```

```

type AssignLicenseRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and
middleware options.
type AssignLicenseRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default
values.
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    m := &AssignLicenseRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/me/microsoft.graph.assignLicense";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder and
sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation invoke action assignLicense
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=

```

```

i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post invoke action assignLicense
func (m *AssignLicenseRequestBuilder) Post(ctx context.Context, body AssignLicensePostRequestBodyable,
requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
# BSD 3-Clause License

```

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package vsphere

```
import (  
    "errors"  
    "fmt"  
    "log"
```

```
"context"
```

```
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
```

```
"github.com/vmware/govmomi/license"
```

```
"github.com/vmware/govmomi/vim25/methods"
```

```
"github.com/vmware/govmomi/vim25/types"
```

```
)
```

```
var (  
    // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.  
    // The error doesn't display the key itself for security reasons.  
    ErrNoSuchKeyFound = errors.New("The key was not found")  
    // ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is  
    // being removed  
    ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")  
)
```

```
func resourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{
```

```
        SchemaVersion: 1,
```

```
        Create: resourceVSphereLicenseCreate,
```

```
        Read: resourceVSphereLicenseRead,
```

```
        Update: resourceVSphereLicenseUpdate,
```

```
        Delete: resourceVSphereLicenseDelete,
```

```
        Schema: map[string]*schema.Schema{
```

```

"license_key":
{
  Type:  schema.TypeString,
  Required: true,
  ForceNew: true,
},
"labels": {
  Type:  schema.TypeMap,
  Optional: true,
  Elem:  &schema.Schema{Type: schema.TypeString},
},

// computed properties returned by the API
"edition_key": {
  Type:  schema.TypeString,
  Computed: true,
},
"name": {
  Type:  schema.TypeString,
  Computed: true,
},
"total": {
  Type:  schema.TypeInt,
  Computed: true,
},
"used": {
  Type:  schema.TypeInt,
  Computed: true,
},
},
}
}

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the create method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

key := d.Get("license_key").(string)

log.Println(" [INFO] Reading the key from the resource data")
var labelMap map[string]interface{ }
if labels, ok := d.GetOk("labels"); ok {
  labelMap = labels.(map[string]interface{ })
}

var

```

```

info types.LicenseManagerLicenseInfo
var err error
switch t := client.ServiceContent.About.ApiType; t {
case "HostAgent":
// Labels are not allowed in ESXi
if len(labelMap) != 0 {
return errors.New("Labels are not allowed in ESXi")
}
info, err = manager.Update(context.TODO(), key, nil)

case "VirtualCenter":
info, err = manager.Add(context.TODO(), key, nil)
if err != nil {
return err
}
err = updateLabels(manager, key, labelMap)

default:
return fmt.Errorf("unsupported ApiType: %s", t)
}

if err != nil {
return err
}

if err = DecodeError(info); err != nil {
return err
}

// This can be used in the read method to set the computed parameters
d.SetId(info.LicenseKey)

return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the read method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if info
:= getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
log.Println("[INFO] Setting the values")
_ = d.Set("edition_key", info.EditionKey)
_ = d.Set("total", info.Total)
_ = d.Set("used", info.Used)
_ = d.Set("name", info.Name)
}
}

```

```

    _ = d.Set("labels", keyValuesToMap(info.Labels))
  } else {
    return ErrNoSuchKeyFound
  }

  return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{}) error {
  log.Println("[INFO] Running the update method")

  client := meta.(*Client).vimClient
  manager := license.NewManager(client.Client)

  if key, ok := d.GetOk("license_key"); ok {
    licenseKey := key.(string)
    if !isKeyPresent(licenseKey, manager) {
      return ErrNoSuchKeyFound
    }

    if d.HasChange("labels") {
      labelMap := d.Get("labels").(map[string]interface{})

      err := updateLabels(manager, licenseKey, labelMap)
      if err != nil {
        return err
      }
    }
  }

  return
  resourceVSphereLicenseRead(d, meta)
}

func updateLabels(manager *license.Manager, licenseKey string, labelMap map[string]interface{}) error {
  for key, value := range labelMap {
    err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
    if err != nil {
      return err
    }
  }
  return nil
}

func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{}) error {
  log.Println("[INFO] Running the delete method")

```

```

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
    err := manager.Remove(context.TODO(), key)

    if err != nil {
        return err
    }

    // if the key is still present
    if isKeyPresent(key, manager) {
        return ErrKeyCannotBeDeleted
    }
    d.SetId("")
    return nil
}
return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
    // Use of decode is not returning
    labels so using list instead
    // Issue - https://github.com/vmware/govmomi/issues/797
    infoList, _ := manager.List(context.TODO())
    for _, info := range infoList {
        if info.LicenseKey == key {
            return &info
        }
    }
    return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
    infoList, _ := manager.List(context.TODO())

    for _, info := range infoList {
        if info.LicenseKey == key {
            return true
        }
    }

    return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {

```

```

req := types.UpdateLicenseLabel{
    This:    m.Reference(),
    LicenseKey: licenseKey,
    LabelKey: key,
    LabelValue: val,
}

_, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
//
// to the server
func DecodeError(info types.LicenseManagerLicenseInfo) error {
    for _, property := range info.Properties {
        if property.Key == "diagnostic" {
            return errors.New(property.Value.(string))
        }
    }
}

return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
    KVMap := make(map[string]interface{})
    for _, keyValue := range keyValues {
        KVMap[keyValue.Key] = keyValue.Value
    }
    return KVMap
}

package models

import (
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
    abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
    abstractions-go/serialization"
)

// LicenseProcessingState
type LicenseProcessingState struct {
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for
    serialization as well.
    additionalData map[string]interface{}
    // The OdataType property
    odataType *string
    // The state property

```

```

    state *string
}
// NewLicenseProcessingState instantiates a new licenseProcessingState and sets the default values.
func NewLicenseProcessingState>(*LicenseProcessingState) {
    m := &LicenseProcessingState{
    }
    m.SetAdditionalData(make(map[string]interface{ }));
    return m
}
// CreateLicenseProcessingStateFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator
value
func CreateLicenseProcessingStateFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseProcessingState(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseProcessingState) GetAdditionalData()(map[string]interface{ }) {
    return m.additionalData
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseProcessingState)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["state"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetState)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseProcessingState) GetOdataType>(*string) {
    return m.odatatype
}
// GetState gets the state property value. The state property
func (m *LicenseProcessingState) GetState>(*string) {
    return m.state
}
// Serialize serializes information the current object
func (m *LicenseProcessingState) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
    }
}

```

```

    if err != nil {
        return err
    }
}
{
    err := writer.WriteStringValue("state", m.GetState())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseProcessingState) SetAdditionalData(value map[string]interface{})( ) {
    m.additionalData = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *LicenseProcessingState) SetOdataType(value *string)( ) {
    m.odatatype = value
}
// SetState sets the state property value. The state property
func (m *LicenseProcessingState) SetState(value *string)( ) {
    m.state = value
}
}
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```

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package item

```
import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// LicenseDetailsItemRequestBuilder provides operations to manage the licenseDetails property of the
microsoft.graph.user entity.
type LicenseDetailsItemRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// LicenseDetailsItemRequestBuilderDeleteRequestConfiguration configuration for the
request such as headers, query parameters, and middleware options.
type LicenseDetailsItemRequestBuilderDeleteRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// LicenseDetailsItemRequestBuilderGetQueryParameters a collection of this user's license details. Read-only.
type LicenseDetailsItemRequestBuilderGetQueryParameters struct {
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
}
// LicenseDetailsItemRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsItemRequestBuilderGetQueryParameters
}
```

```

}
// LicenseDetailsItemRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderPatchRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsItemRequestBuilderInternal instantiates a new LicenseDetailsItemRequestBuilder and sets the
default values.
func NewLicenseDetailsItemRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    m := &LicenseDetailsItemRequestBuilder{
    }
    m.urlTemplate =
"+baseurl}/users/{user%2Did}/licenseDetails/{licenseDetails%2Did}{?%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewLicenseDetailsItemRequestBuilder instantiates a new LicenseDetailsItemRequestBuilder and sets the default
values.
func NewLicenseDetailsItemRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewLicenseDetailsItemRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property licenseDetails for users
func (m *LicenseDetailsItemRequestBuilder) CreateDeleteRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    }
}

```

```

        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52
9013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property licenseDetails in users
func (m *LicenseDetailsItemRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Delete delete navigation property licenseDetails for users
func (m *LicenseDetailsItemRequestBuilder) Delete(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(error)

```

```

{
    requestInfo, err := m.CreateDeleteRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380
ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx,
requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}
// Patch update the navigation property licenseDetails in users

```

```

func (m *LicenseDetailsItemRequestBuilder) Patch(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de03
80ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}

```

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```
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
    "bytes"
    "context"
    "fmt"
    "io"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport
    "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    },
}
```

```

Get: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}

```

```

}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

```

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
// for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
// third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{

```

```

    endpoint: endpoint,
    httpClient: httpClient,
    CallOptions: &callOpts,
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

```

```

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds
    = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil
{
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for

```

a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())
```

```
    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }
}
```

```
baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client and context metadata.
```

```
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}
```

```
hds
```

```
= append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
```

```
headers := gax.BuildHeaders(ctx, hds...)
```

```
opts =
```

```
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
resp := &computepb.Policy{ }
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    if settings.Path != "" {
```

```
        baseUrl.Path = settings.Path
```

```
    }
```

```
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    httpReq = httpReq.WithContext(ctx)
```

```
    httpReq.Header = headers
```

```
    httpRsp, err := c.httpClient.Do(httpReq)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    defer httpRsp.Body.Close()
```

```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return
nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",

```

```

"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return
    }
    err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
    }
}

```

```

    project: req.GetProject(),
  },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
      req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
      req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
      req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
      return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
      params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
      params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
      params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
      params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
    }
    if req != nil && req.ReturnPartialSuccess != nil {

```

```

params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return
    }
    err

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {

```

```

items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
(*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e

```

```

:= gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx
context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
}

```

```

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *compute.License.
type LicenseIterator struct {
    items []*compute.License
    pageInfo
    *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*compute.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done,
// all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*compute.License, error) {
    var item *compute.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
}

```

```

return item, nil
}

func (it *LicenseIterator) bufLen() int {
return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}

```

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package licensemanager

```
import (  
    "context"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/licensemanager"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
)  
  
// @SDKDataSource("aws_licensemanager_received_licenses")  
func DataSourceReceivedLicenses() *schema.Resource {  
    return &schema.Resource{  
        ReadWithoutTimeout: dataSourceReceivedLicensesRead,  
        Schema: map[string]*schema.Schema{  
            "arns": {  
                Type: schema.TypeList,  
                Computed: true,  
                Elem: &schema.Schema{Type: schema.TypeString},  
            },  
            "filter": DataSourceFiltersSchema(),  
        },  
    }  
}  
  
func dataSourceReceivedLicensesRead(ctx context.Context, d *schema.ResourceData, meta interface{})  
diag.Diagnostics {  
    var diags diag.Diagnostics  
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)  
  
    in := &licensemanager.ListReceivedLicensesInput{ }  
  
    in.Filters = BuildFiltersDataSource(  
        d.Get("filter").(*schema.Set),
```

```

)

if len(in.Filters) == 0 {
    in.Filters = nil
}

out, err := FindReceivedLicenses(ctx, conn, in)

if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading Received Licenses: %s", err)
}

var licenseARNs []string

for _, v := range out {
    licenseARNs = append(licenseARNs, aws.StringValue(v.LicenseArn))
}

d.SetId(meta.(*conns.AWSClient).Region)
d.Set("arns", licenseARNs)

return diags
}

func FindReceivedLicenses(ctx context.Context, conn *licensemanager.LicenseManager, in
*licensemanager.ListReceivedLicensesInput) ([]*licensemanager.GrantedLicense, error) {
    var out []*licensemanager.GrantedLicense

    err := listReceivedLicensesPages(ctx, conn, in, func(page *licensemanager.ListReceivedLicensesOutput, lastPage
bool) bool {
        if page ==
        nil {
            return !lastPage
        }

        for _, v := range page.Licenses {
            if v != nil {
                out = append(out, v)
            }
        }

        return !lastPage
    })

    if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeResourceNotFoundException) {
        return nil, &retry.NotFoundError{
            LastError: err,
            LastRequest: in,

```

```
}  
}  
  
if err != nil {  
    return nil, err  
}  
  
return out, nil  
}
```

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//

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```

```
package spec
```

```
import (
    "encoding/json"
```

```
    "github.com/go-openapi/swag"
)
```

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
    LicenseProps
    VendorExtensible
}
```

```
// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
```

```
// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}
```

```
// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
}
```

```

}
b2, err := json.Marshal(l VendorExtensible)
if err != nil {
    return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}

```

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package licensemanager

```

import (
    "context"
    "log"
    "regexp"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/licensemanager"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/flex"
    tftags "github.com/hashicorp/terraform-provider-aws/internal/tags"
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"
    "github.com/hashicorp/terraform-provider-aws/internal/verify"
    "github.com/hashicorp/terraform-provider-aws/names"

```

```

)

// @SDKResource("aws_licensemanager_license_configuration", name="License Configuration")
// @Tags(identifierAttribute="id")
func ResourceLicenseConfiguration() *schema.Resource
{
return &schema.Resource{
CreateWithoutTimeout: resourceLicenseConfigurationCreate,
ReadWithoutTimeout: resourceLicenseConfigurationRead,
UpdateWithoutTimeout: resourceLicenseConfigurationUpdate,
DeleteWithoutTimeout: resourceLicenseConfigurationDelete,

Importer: &schema.ResourceImporter{
StateContext: schema.ImportStatePassthroughContext,
},

Schema: map[string]*schema.Schema{
"arn": {
Type: schema.TypeString,
Computed: true,
},
"description": {
Type: schema.TypeString,
Optional: true,
},
"license_count": {
Type: schema.TypeInt,
Optional: true,
},
"license_count_hard_limit": {
Type: schema.TypeBool,
Optional: true,
Default: false,
},
"license_counting_type": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
ValidateFunc: validation.StringInSlice(licensemanager.LicenseCountingType_Values(), false),
},
"license_rules": {
Type:
schema.TypeList,
Optional: true,
ForceNew: true,
Elem: &schema.Schema{
Type: schema.TypeString,
ValidateFunc: validation.StringMatch(regexp.MustCompile("^#[^=]+)=(.+)$"), "Expected format is

```

```

#RuleType=RuleValue"),
    },
    },
    "name": {
        Type: schema.TypeString,
        Required: true,
    },
    "owner_account_id": {
        Type: schema.TypeString,
        Computed: true,
    },
    names.AttrTags: tftags.TagsSchema(),
    names.AttrTagsAll: tftags.TagsSchemaComputed(),
},

CustomizeDiff: verify.SetTagsDiff,
}
}

func resourceLicenseConfigurationCreate(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

    name := d.Get("name").(string)
    input := &licensemanager.CreateLicenseConfigurationInput{
        LicenseCountingType: aws.String(d.Get("license_counting_type").(string)),
        Name:                 aws.String(name),
        Tags:                 GetTagsIn(ctx),
    }

    if v, ok := d.GetOk("description"); ok {
        input.Description = aws.String(v.(string))
    }

    if v, ok := d.GetOk("license_count"); ok {
        input.LicenseCount = aws.Int64(int64(v.(int)))
    }

    if v, ok := d.GetOk("license_count_hard_limit"); ok {
        input.LicenseCountHardLimit = aws.Bool(v.(bool))
    }

    if v, ok := d.GetOk("license_rules"); ok && len(v.([]interface{})) > 0 {
        input.LicenseRules = flex.ExpandStringList(v.([]interface{}))
    }

    log.Printf("[DEBUG] Creating License Manager License Configuration: %s", input)

```

```

resp, err := conn.CreateLicenseConfigurationWithContext(ctx, input)

if err != nil {
    return diag.Errorf("creating License Manager License Configuration (%s): %s", name, err)
}

d.SetId(aws.StringValue(resp.LicenseConfigurationArn))

return resourceLicenseConfigurationRead(ctx, d, meta)
}

func resourceLicenseConfigurationRead(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

    output, err
    := FindLicenseConfigurationByARN(ctx, conn, d.Id())

    if !d.IsNewResource() && tfresource.NotFound(err) {
        log.Printf("[WARN] License Manager License Configuration %s not found, removing from state", d.Id())
        d.SetId("")
        return nil
    }

    if err != nil {
        return diag.Errorf("reading License Manager License Configuration (%s): %s", d.Id(), err)
    }

    d.Set("arn", output.LicenseConfigurationArn)
    d.Set("description", output.Description)
    d.Set("license_count", output.LicenseCount)
    d.Set("license_count_hard_limit", output.LicenseCountHardLimit)
    d.Set("license_counting_type", output.LicenseCountingType)
    d.Set("license_rules", aws.StringValueSlice(output.LicenseRules))
    d.Set("name", output.Name)
    d.Set("owner_account_id", output.OwnerAccountId)

    SetTagsOut(ctx, output.Tags)

    return nil
}

func resourceLicenseConfigurationUpdate(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

    if d.HasChangesExcept("tags",

```

```

"tags_all") {
input := &licensemanager.UpdateLicenseConfigurationInput{
Description:      aws.String(d.Get("description").(string)),
LicenseConfigurationArn: aws.String(d.Id()),
LicenseCountHardLimit: aws.Bool(d.Get("license_count_hard_limit").(bool)),
Name:            aws.String(d.Get("name").(string)),
}

if v, ok := d.GetOk("license_count"); ok {
input.LicenseCount = aws.Int64(int64(v.(int)))
}

log.Printf("[DEBUG] Updating License Manager License Configuration: %s", input)
_, err := conn.UpdateLicenseConfigurationWithContext(ctx, input)

if err != nil {
return diag.Errorf("updating License Manager License Configuration (%s): %s", d.Id(), err)
}
}

return resourceLicenseConfigurationRead(ctx, d, meta)
}

func resourceLicenseConfigurationDelete(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

log.Printf("[DEBUG] Deleting License
Manager License Configuration: %s", d.Id())
_, err := conn.DeleteLicenseConfigurationWithContext(ctx, &licensemanager.DeleteLicenseConfigurationInput{
LicenseConfigurationArn: aws.String(d.Id()),
})

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeInvalidParameterValueException) {
return nil
}

if err != nil {
return diag.Errorf("deleting License Manager License Configuration (%s): %s", d.Id(), err)
}

return nil
}

func FindLicenseConfigurationByARN(ctx context.Context, conn *licensemanager.LicenseManager, arn string)
(*licensemanager.GetLicenseConfigurationOutput, error) {
input := &licensemanager.GetLicenseConfigurationInput{
LicenseConfigurationArn: aws.String(arn),
}

```

```

}

output, err := conn.GetLicenseConfigurationWithContext(ctx, input)

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeInvalidParameterValueException) {
    return nil, &retry.NotFoundError{
        LastError: err,
        LastRequest: input,
    }
}

if err != nil {
    return nil, err
}

if output
== nil {
    return nil, tfresource.NewEmptyResultError(input)
}

return output, nil
}

```

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package grant

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantPostRequestBody provides operations to call the grant method.  
type GrantPostRequestBody struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{ }  
    // The recipients property  
    recipients []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.DriveRecipientable  
    // The roles property  
    roles []string  
}  
// NewGrantPostRequestBody instantiates a new grantPostRequestBody and sets the default values.  
func NewGrantPostRequestBody>(*GrantPostRequestBody)  
{  
    m := &GrantPostRequestBody{  
    }  
    m.SetAdditionalData(make(map[string]interface{ }));  
    return m  
}  
// CreateGrantPostRequestBodyFromDiscriminatorValue creates a new instance of the appropriate class based on  
discriminator value  
func CreateGrantPostRequestBodyFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
```

```

388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewGrantPostRequestBody(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *GrantPostRequestBody) GetAdditionalData()(map[string]interface{} ) {
    return m.additionalData
}
// GetFieldDeserializers the deserialization information for the current model
func (m *GrantPostRequestBody)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error))
{
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["recipients"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.CreateDriveRecipientFromDiscriminatorValu
e , m.SetRecipients)
    res["roles"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRoles)
    return res
}
// GetRecipients gets the recipients property value. The recipients property
func (m *GrantPostRequestBody)
GetRecipients()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)
{
    return m.recipients
}
// GetRoles gets the roles property value. The roles property
func (m *GrantPostRequestBody) GetRoles()([]string) {
    return m.roles
}
// Serialize serializes information the current object
func
(m *GrantPostRequestBody) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetRecipients() != nil {
        cast :=
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetRecipients())
        err := writer.WriteCollectionOfObjectValues("recipients", cast)
        if err != nil {
            return err
        }
    }
}

```

```

if m.GetRoles() != nil {
    err := writer.WriteCollectionOfStringValues("roles", m.GetRoles())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}

// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization
as well.
func (m *GrantPostRequestBody) SetAdditionalData(value map[string]interface{})() {
    m.additionalData = value
}

// SetRecipients sets the recipients property value. The recipients property
func (m *GrantPostRequestBody) SetRecipients(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.DriveRecipientable)() {
    m.recipients = value
}

// SetRoles sets the roles property value. The roles property
func (m *GrantPostRequestBody) SetRoles(value []string)() {
    m.roles = value
}
}
package assignlicense

import (
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
"github.com/microsoftgraph/msgraph-sdk-go/models"
)

// AssignLicensePostRequestBodyable
type AssignLicensePostRequestBodyable interface {
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetAddLicenses()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicense
able)
    GetRemoveLicenses()([]string)
    SetAddLicenses(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable)()
    SetRemoveLicenses(value []string)()
}

```

}

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Files: s2/cmd/internal/readahead/*

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Files: internal/snapref/*

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Files: s2/cmd/internal/filepathx/*

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// Package misspell corrects commonly misspelled English words in source files.

package misspell

// Legal provides licensing info.

const Legal = `

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package models

```
import (  
    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// Permission provides operations to manage the collection of agreement entities.  
type Permission struct {  
    Entity  
    // A format of yyyy-MM-ddTHH:mm:ssZ of DateTimeOffset indicates the expiration time of the permission.  
    DateTime.MinValue indicates there is no expiration set for this permission. Optional.  
    expirationDateTime *i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time  
    // The grantedTo property  
    grantedTo IdentitySetable  
    // The grantedToIdentities property  
    grantedToIdentities []IdentitySetable  
    // For link type permissions, the details of the users to whom permission was granted. Read-only.  
  
    grantedToIdentitiesV2 []SharePointIdentitySetable  
    // For user type permissions, the details of the users and applications for this permission. Read-only.  
    grantedToV2 SharePointIdentitySetable  
    // Indicates whether the password is set for this permission. This property only appears in the response. Optional.  
    Read-only. For OneDrive Personal only..  
    hasPassword *bool  
    // Provides a reference to the ancestor of the current permission, if it is inherited from an ancestor. Read-only.  
    inheritedFrom ItemReferenceable  
    // Details of any associated sharing invitation for this permission. Read-only.  
    invitation SharingInvitationable  
    // Provides the link details of the current permission, if it is a link type permissions. Read-only.  
    link SharingLinkable  
    // The type of permission, for example, read. See below for the full list of roles. Read-only.  
    roles []string  
    // A unique token that can be used to access this shared item via the **shares** API. Read-only.
```

```

    shareId *string
}
// NewPermission instantiates a new permission and sets the default values.
func NewPermission>(*Permission) {
    m := &Permission{
        Entity: *NewEntity(),
    }
    return m
}
// CreatePermissionFromDiscriminatorValue creates a new instance of the appropriate class based on discriminator
value
func CreatePermissionFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewPermission(), nil
}
// GetExpirationDateTime gets the expirationDateTime property value. A format of yyyy-MM-ddTHH:mm:ssZ of
DateTimeOffset indicates the expiration time of the permission. DateTime.MinValue indicates there is no expiration
set for this permission. Optional.
func (m *Permission)
GetExpirationDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time) {
    return m.expirationDateTime
}
// GetFieldDeserializers
the deserialization information for the current model
func (m *Permission)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.Entity.GetFieldDeserializers()
    res["expirationDateTime"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetTimeValue(m.SetExpirationDateTi
me)
    res["grantedTo"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateIdentitySetFro
mDiscriminatorValue , m.SetGrantedTo)
    res["grantedToIdentities"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateId
entitySetFromDiscriminatorValue , m.SetGrantedToIdentities)
    res["grantedToIdentitiesV2"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateS
harePointIdentitySetFromDiscriminatorValue , m.SetGrantedToIdentitiesV2)
    res["grantedToV2"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharePointIdent
itySetFromDiscriminatorValue
, m.SetGrantedToV2)
    res["hasPassword"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetBoolValue(m.SetHasPassword)
    res["inheritedFrom"] =

```

```

i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateItemReferenceFromDiscriminatorValue , m.SetInheritedFrom)
    res["invitation"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharingInvitationFromDiscriminatorValue , m.SetInvitation)
    res["link"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharingLinkFromDiscriminatorValue , m.SetLink)
    res["roles"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("string" , m.SetRoles)
    res["shareId"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetShareId)
    return res
}
// GetGrantedTo gets the grantedTo property value. The grantedTo property
func (m *Permission) GetGrantedTo()(IdentitySetable) {
    return m.grantedTo
}
// GetGrantedToIdentities gets the grantedToIdentities property value. The grantedToIdentities property
func (m *Permission) GetGrantedToIdentities()([]IdentitySetable) {
    return m.grantedToIdentities
}
// GetGrantedToIdentitiesV2 gets the grantedToIdentitiesV2 property value. For link type permissions, the details of the users to whom permission was granted. Read-only.
func (m *Permission) GetGrantedToIdentitiesV2()([]SharePointIdentitySetable) {
    return m.grantedToIdentitiesV2
}
// GetGrantedToV2 gets the grantedToV2 property value. For user type permissions, the details of the users and applications for this permission. Read-only.
func (m *Permission) GetGrantedToV2()(SharePointIdentitySetable) {
    return m.grantedToV2
}
// GetHasPassword gets the hasPassword property value. Indicates whether the password is set for this permission. This property only appears in the response. Optional. Read-only. For OneDrive Personal only..
func (m *Permission) GetHasPassword>(*bool) {
    return m.hasPassword
}
// GetInheritedFrom gets the inheritedFrom property value. Provides a reference to the ancestor of the current permission, if it is inherited from an ancestor. Read-only.
func (m *Permission) GetInheritedFrom()(ItemReferenceable) {
    return m.inheritedFrom
}
// GetInvitation gets the invitation property value. Details of any associated sharing invitation for this permission. Read-only.
func (m *Permission) GetInvitation()(SharingInvitationable) {
    return m.invitation
}

```

```

}
// GetLink gets the link property value. Provides the link details of the current permission, if it is a link type
permissions. Read-only.
func (m *Permission) GetLink()(SharingLinkable) {
    return m.link
}
// GetRoles gets the roles property value. The type of permission, for example, read. See below for the
full list of roles. Read-only.
func (m *Permission) GetRoles()([]string) {
    return m.roles
}
// GetShareId gets the shareId property value. A unique token that can be used to access this shared item via the
**shares** API. Read-only.
func (m *Permission) GetShareId>(*string) {
    return m.shareId
}
// Serialize serializes information the current object
func (m *Permission) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.Entity.Serialize(writer)
    if err != nil {
        return err
    }
    {
        err = writer.WriteTimeValue("expirationDateTime", m.GetExpirationDateTime())
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteObjectValue("grantedTo", m.GetGrantedTo())
        if err != nil {
            return err
        }
    }
    if m.GetGrantedToIdentities() != nil {
        cast :=
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetGrantedToIdentities())
        err = writer.WriteCollectionOfObjectValues("grantedToIdentities", cast)
        if err != nil {
            return err
        }
    }
    if m.GetGrantedToIdentitiesV2() != nil {
        cast :=
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetGrantedToIdentitiesV2())

```

```

err = writer.WriteCollectionOfObjectValues("grantedToIdentitiesV2", cast)
if err != nil {
    return err
}
}
{
err = writer.WriteObjectValue("grantedToV2", m.GetGrantedToV2())
if err != nil {
    return err
}
}
{
err = writer.WriteBoolValue("hasPassword", m.GetHasPassword())
if err != nil {
    return err
}
}
{
err = writer.WriteObjectValue("inheritedFrom", m.GetInheritedFrom())
if err != nil {
    return err
}
}
{
err = writer.WriteObjectValue("invitation", m.GetInvitation())
if err != nil {
    return err
}
}
{
err = writer.WriteObjectValue("link", m.GetLink())
if err != nil {
    return err
}
}
if m.GetRoles() != nil {
err = writer.WriteCollectionOfStringValues("roles", m.GetRoles())
if err != nil {
    return err
}
}
{
err = writer.WriteStringValue("shareId", m.GetShareId())
if err != nil {
    return err
}
}
}
return nil

```

```

}
// SetExpirationDateTime sets the expirationDateTime property value. A format of yyyy-MM-ddTHH:mm:ssZ of
DateTimeOffset indicates the expiration time of the permission. DateTime.MinValue indicates there is no expiration
set for this permission. Optional.
func (m *Permission) SetExpirationDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time())
{
    m.expirationDateTime = value
}
// SetGrantedTo sets the grantedTo property value. The grantedTo property
func (m *Permission) SetGrantedTo(value IdentitySetable()) {
    m.grantedTo = value
}
// SetGrantedToIdentities sets the grantedToIdentities property value. The grantedToIdentities property
func (m *Permission) SetGrantedToIdentities(value []IdentitySetable()) {
    m.grantedToIdentities = value
}
// SetGrantedToIdentitiesV2 sets the grantedToIdentitiesV2 property value. For link type permissions, the details of
the users to whom permission was granted. Read-only.
func (m *Permission) SetGrantedToIdentitiesV2(value []SharePointIdentitySetable()) {
    m.grantedToIdentitiesV2 = value
}
// SetGrantedToV2 sets the grantedToV2 property value. For user type permissions, the details of the users and
applications for this permission. Read-only.
func (m *Permission) SetGrantedToV2(value SharePointIdentitySetable()) {
    m.grantedToV2 = value
}
//
SetHasPassword sets the hasPassword property value. Indicates whether the password is set for this permission.
This property only appears in the response. Optional. Read-only. For OneDrive Personal only..
func (m *Permission) SetHasPassword(value *bool()) {
    m.hasPassword = value
}
// SetInheritedFrom sets the inheritedFrom property value. Provides a reference to the ancestor of the current
permission, if it is inherited from an ancestor. Read-only.
func (m *Permission) SetInheritedFrom(value ItemReferenceable()) {
    m.inheritedFrom = value
}
// SetInvitation sets the invitation property value. Details of any associated sharing invitation for this permission.
Read-only.
func (m *Permission) SetInvitation(value SharingInvitationable()) {
    m.invitation = value
}
// SetLink sets the link property value. Provides the link details of the current permission, if it is a link type
permissions. Read-only.
func (m *Permission) SetLink(value SharingLinkable()) {
    m.link = value
}
}

```

```
//
SetRoles sets the roles property value. The type of permission, for example, read. See below for the full list of roles.
Read-only.
func (m *Permission) SetRoles(value []string) {
    m.roles = value
}
// SetShareId sets the shareId property value. A unique token that can be used to access this shared item via the
**shares** API. Read-only.
func (m *Permission) SetShareId(value *string) {
    m.shareId = value
}
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```

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseUnitsDetailable  
type LicenseUnitsDetailable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetEnabled()(*int32)  
    GetOdataType()(*string)  
    GetSuspended()(*int32)  
    GetWarning()(*int32)  
    SetEnabled(value *int32)()  
    SetOdataType(value *string)()  
    SetSuspended(value *int32)()  
    SetWarning(value *int32)()  
}
```

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protoc-gen-validate

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsCollectionResponseable  
type LicenseDetailsCollectionResponseable interface {  
    BaseCollectionPaginationCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]LicenseDetailsable)  
    SetValue(value []LicenseDetailsable())  
}
```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// AssignedLicenseCollectionResponse  
type AssignedLicenseCollectionResponse struct {  
    BaseCollectionPaginationCountResponse  
    // The value property  
    value []AssignedLicenseable  
}  
  
// NewAssignedLicenseCollectionResponse instantiates a new AssignedLicenseCollectionResponse and sets the  
default values.  
func NewAssignedLicenseCollectionResponse>(*AssignedLicenseCollectionResponse) {  
    m := &AssignedLicenseCollectionResponse{  
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),  
    }  
    return m  
}  
  
// CreateAssignedLicenseCollectionResponseFromDiscriminatorValue creates a new instance of the appropriate  
class based on discriminator value  
func CreateAssignedLicenseCollectionResponseFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewAssignedLicenseCollectionResponse(), nil  
}  
  
// GetFieldDeserializers the deserialization information for the current model  
func (m *AssignedLicenseCollectionResponse)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error)) {  
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()  
    res["value"] =  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateA  
ssignedLicenseFromDiscriminatorValue , m.SetValue)  
    return res  
}  
  
// GetValue gets the value property value. The value property  
func (m *AssignedLicenseCollectionResponse) GetValue()([]AssignedLicenseable) {  
    return m.value  
}  
  
// Serialize serializes information the current object  
func (m *AssignedLicenseCollectionResponse)  
Serialize(writer  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
```

```

err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
if err != nil {
    return err
}
if m.GetValue() != nil {
    cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
    err = writer.WriteCollectionOfObjectValues("value", cast)
    if err != nil {
        return err
    }
}
return nil
}
// SetValue sets the value property value. The value property
func (m *AssignedLicenseCollectionResponse) SetValue(value []AssignedLicenseable)() {
    m.value = value
}
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```

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```
package models
```

```
import (  
    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseAssignmentStateable  
type LicenseAssignmentStateable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetAssignedByGroup>(*string)  
    GetDisabledPlans([]string)  
    GetError(*string)  
    GetLastUpdatedDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)  
    GetOdataType(*string)  
    GetSkuId(*string)  
    GetState(*string)  
    SetAssignedByGroup(value *string())  
    SetDisabledPlans(value []string())  
    SetError(value *string())  
    SetLastUpdatedDate Time(value  
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)())  
    SetOdataType(value *string())  
  
    SetSkuId(value *string())  
    SetState(value *string())  
}
```

```
package permission
```

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8  
    "github.com/microsoftgraph/msgraph-sdk-go/shares/item/permission/grant"  
)
```

```
// PermissionRequestBuilder provides operations to manage the permission property of the  
microsoft.graph.sharedDriveItem entity.
```

```
type PermissionRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string
```

```

// The request adapter to use to execute the requests.
requestAdapter i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
// Url template to use to build the URL
for the current request builder
urlTemplate string
}
// PermissionRequestBuilderDeleteRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderDeleteRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// PermissionRequestBuilderGetQueryParameters used to access the permission representing the underlying sharing
link
type PermissionRequestBuilderGetQueryParameters struct {
// Expand related entities
Expand []string `uriparametername:"%24expand"`
// Select properties to be returned
Select []string `uriparametername:"%24select"`
}
// PermissionRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderGetRequestConfiguration struct {
// Request
headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
// Request query parameters
QueryParameters *PermissionRequestBuilderGetQueryParameters
}
// PermissionRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderPatchRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewPermissionRequestBuilderInternal instantiates a new PermissionRequestBuilder and sets the default values.
func NewPermissionRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*PermissionRequest
Builder) {
m := &PermissionRequestBuilder{
}
m.urlTemplate

```

```

= "{+baseUrl}/shares/{sharedDriveItem%2Did}/permission{?%24select,%24expand}";
urlTplParams := make(map[string]string)
for idx, item := range pathParameters {
    urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewPermissionRequestBuilder instantiates a new PermissionRequestBuilder and sets the default values.
func NewPermissionRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*PermissionRequest
Builder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewPermissionRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property permission for shares
func (m *PermissionRequestBuilder) CreateDeleteRequestInformation(ctx context.Context, requestConfiguration
*PermissionRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation used to access the permission representing the underlying sharing link
func (m *PermissionRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*PermissionRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b74
37480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)

```

```

        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property permission in shares
func (m *PermissionRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable, requestConfiguration
*PermissionRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b
7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Delete delete navigation property permission for shares
func (m *PermissionRequestBuilder) Delete(ctx context.Context, requestConfiguration
*PermissionRequestBuilderDeleteRequestConfiguration)(error) {
    requestInfo, err := m.CreateDeleteRequestInformation(ctx,
requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get used to access the permission representing the underlying sharing link
func (m *PermissionRequestBuilder) Get(ctx context.Context, requestConfiguration
*PermissionRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f

```

```

641a29edf2b242.Permissionable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping
:= i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminator
Value, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable), nil
}
// Grant provides operations to call the grant method.
func (m *PermissionRequestBuilder)
Grant>(*ice16248649874c4f53a6ccca26d3222258367e4d96355a2112af001ede7238e8.GrantRequestBuilder) {
    return
ice16248649874c4f53a6ccca26d3222258367e4d96355a2112af001ede7238e8.NewGrantRequestBuilderInternal(m.p
athParameters,
    m.requestAdapter);
}
// Patch update the navigation property permission in shares
func (m *PermissionRequestBuilder) Patch(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable, requestConfiguration
*PermissionRequestBuilderPatchRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda7
6f641a29edf2b242.Permissionable, error) {
    requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator

```

```

Value,
}
res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminator
Value,
errorMapping)
if err != nil {
return nil, err
}
if res == nil {
return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable), nil
}

```

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//go:build go1.10
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package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

```

```

}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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```

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package assignlicense

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// AssignLicensePostRequestBody provides operations to call the assignLicense method.  
type AssignLicensePostRequestBody struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{}  
    // The addLicenses property  
    addLicenses []iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable  
    // The removeLicenses property
```

```

    removeLicenses []string
}
// NewAssignLicensePostRequestBody instantiates a new assignLicensePostRequestBody and sets the
// default values.
func NewAssignLicensePostRequestBody(*AssignLicensePostRequestBody) {
    m := &AssignLicensePostRequestBody{
    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateAssignLicensePostRequestBodyFromDiscriminatorValue creates a new instance of the appropriate class
// based on discriminator value
func CreateAssignLicensePostRequestBodyFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignLicensePostRequestBody(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
// description found when deserializing. Can be used for serialization as well.
func (m *AssignLicensePostRequestBody) GetAdditionalData()(map[string]interface{} ) {
    return m.additionalData
}
// GetAddLicenses gets the addLicenses property value. The addLicenses
// property
func (m *AssignLicensePostRequestBody)
GetAddLicenses()([]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.AssignedLicense
able) {
    return m.addLicenses
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignLicensePostRequestBody)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["addLicenses"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateAssignedLicenseFromDiscriminatorVal
ue , m.SetAddLicenses)
    res["removeLicenses"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRemoveLicenses)
    return res
}
// GetRemoveLicenses gets the
// removeLicenses property value. The removeLicenses property
func (m *AssignLicensePostRequestBody) GetRemoveLicenses()([]string) {

```

```

    return m.removeLicenses
}
// Serialize serializes information the current object
func (m *AssignLicensePostRequestBody) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetAddLicenses() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetAddLicenses())
        err := writer.WriteCollectionOfObjectValues("addLicenses", cast)
        if err != nil {
            return err
        }
    }
    if m.GetRemoveLicenses() != nil {
        err := writer.WriteCollectionOfStringValues("removeLicenses", m.GetRemoveLicenses())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignLicensePostRequestBody) SetAdditionalData(value map[string]interface{})( ) {
    m.additionalData = value
}
// SetAddLicenses sets the addLicenses property value. The addLicenses property
func (m *AssignLicensePostRequestBody) SetAddLicenses(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable)( ) {
    m.addLicenses = value
}
// SetRemoveLicenses sets the removeLicenses property value. The removeLicenses property
func (m *AssignLicensePostRequestBody) SetRemoveLicenses(value []string)( ) {
    m.removeLicenses = value
}

```

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limitations under the License.

The common/types/pb/equal.go modification of proto.Equal logic

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goproperties - properties file decoder for Go

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseAssignmentStateCollectionResponse  
type LicenseAssignmentStateCollectionResponse struct {  
    BaseCollectionPaginationCountResponse  
    // The value property  
    value []LicenseAssignmentStateable  
}  
// NewLicenseAssignmentStateCollectionResponse instantiates a new LicenseAssignmentStateCollectionResponse  
and sets the default values.  
func NewLicenseAssignmentStateCollectionResponse>(*LicenseAssignmentStateCollectionResponse) {  
    m := &LicenseAssignmentStateCollectionResponse{  
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),  
    }  
    return m  
}  
// CreateLicenseAssignmentStateCollectionResponseFromDiscriminatorValue creates a new instance of the  
appropriate class based  
on discriminator value  
func CreateLicenseAssignmentStateCollectionResponseFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewLicenseAssignmentStateCollectionResponse(), nil  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *LicenseAssignmentStateCollectionResponse)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error)) {  
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()  
    res["value"] =  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateL  
icenseAssignmentStateFromDiscriminatorValue , m.SetValue)  
    return res  
}  
// GetValue gets the value property value. The value property  
func (m *LicenseAssignmentStateCollectionResponse) GetValue()([]LicenseAssignmentStateable)
```

```

{
    return m.value
}
// Serialize serializes information the current object
func (m *LicenseAssignmentStateCollectionResponse) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPagingCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *LicenseAssignmentStateCollectionResponse) SetValue(value []LicenseAssignmentStateable)() {
    m.value = value
}

```

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package models

```
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    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsable  
type LicenseDetailsable interface {  
    Entityable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetServicePlans()([]ServicePlanInfoable)  
    GetSkuId(*string)  
    GetSkuPartNumber(*string)  
    SetServicePlans(value []ServicePlanInfoable())  
    SetSkuId(value *string())  
    SetSkuPartNumber(value *string())  
}
```

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```
package vsphere
```

```
import (  
    "log"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
)
```

```
func dataSourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
        Read: dataSourceVSphereLicenseRead,
```

```

Schema: map[string]*schema.Schema{
    "license_key": {
        Type:     schema.TypeString,
        Required: true,
    },

    // computed properties returned by the API
    "id": {
        Type:     schema.TypeString,
        Computed: true,
    },
    "labels": {
        Type:     schema.TypeMap,
        Computed: true,
        Elem:     &schema.Schema{Type: schema.TypeString},
    },
    "edition_key": {
        Type:     schema.TypeString,
        Computed: true,
    },
    "name": {
        Type:     schema.TypeString,
        Computed: true,
    },
    "total": {
        Type:     schema.TypeInt,
        Computed: true,
    },
    "used": {
        Type:     schema.TypeInt,
        Computed: true,
    },
}
}

func dataSourceVSphereLicenseRead(d
*schema.ResourceData, meta interface{ }) error {

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)
    licenseKey := d.Get("license_key").(string)
    if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
        log.Println("[INFO] Setting the values")
        d.Set("edition_key", info.EditionKey)
        d.Set("total", info.Total)
        d.Set("used", info.Used)
    }
}

```

```
d.Set("name", info.Name)
if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
    return err
}
d.SetId(licenseKey)
return nil
} else {
return ErrNoSuchKeyFound
}
}
```

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package assignlicense

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// AssignLicenseRequestBuilder provides operations to call the assignLicense method.  
type AssignLicenseRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query  
parameters, and  
middleware options.  
type AssignLicenseRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default  
values.  
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ  
estBuilder) {  
    m := &AssignLicenseRequestBuilder{  
    }  
    m.urlTemplate = "{+baseurl}/users/{user%2Did}/microsoft.graph.assignLicense";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters = urlTplParams;  
    m.requestAdapter = requestAdapter;  
    return m  
}
```

```

// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder
and sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation invoke action assignLicense
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post invoke action assignLicense
func (m *AssignLicenseRequestBuilder) Post(ctx context.Context, body AssignLicensePostRequestBodyable,
requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadc81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadc81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {

```

```

    return nil, err
}
if res == nil {
    return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
package contentkeypolicies

import (
    "encoding/json"
    "fmt"
    "time"

    "github.com/hashicorp/go-azure-helpers/lang/dates"
)

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type ContentKeyPolicyPlayReadyLicense struct {
    AllowTestDevices bool                `json:"allowTestDevices"`
    BeginDate         *string                               `json:"beginDate,omitempty"`
    ContentKeyLocation ContentKeyPolicyPlayReadyContentKeyLocation `json:"contentKeyLocation"`
    ContentType       ContentKeyPolicyPlayReadyContentType `json:"contentType"`
    ExpirationDate   *string                               `json:"expirationDate,omitempty"`
    GracePeriod      *string                               `json:"gracePeriod,omitempty"`
    LicenseType      ContentKeyPolicyPlayReadyLicenseType `json:"licenseType"`
    PlayRight        *ContentKeyPolicyPlayReadyPlayRight `json:"playRight,omitempty"`
    RelativeBeginDate *string                               `json:"relativeBeginDate,omitempty"`
    RelativeExpirationDate *string                               `json:"relativeExpirationDate,omitempty"`
}

func (o *ContentKeyPolicyPlayReadyLicense) GetBeginDateAsTime() (*time.Time, error) {
    if o.BeginDate == nil {
        return nil, nil
    }
    return dates.ParseAsFormat(o.BeginDate, "2006-01-02T15:04:05Z07:00")
}

func (o *ContentKeyPolicyPlayReadyLicense) SetBeginDateAsTime(input time.Time) {
    formatted := input.Format("2006-01-02T15:04:05Z07:00")
    o.BeginDate = &formatted
}

func (o *ContentKeyPolicyPlayReadyLicense) GetExpirationDateAsTime() (*time.Time, error) {
    if o.ExpirationDate == nil {

```

```

    return nil, nil
}
return dates.ParseAsFormat(o.ExpirationDate, "2006-01-02T15:04:05Z07:00")
}

func (o *ContentKeyPolicyPlayReadyLicense) SetExpirationDateAsTime(input time.Time) {
    formatted :=
    input.Format("2006-01-02T15:04:05Z07:00")
    o.ExpirationDate = &formatted
}

var _ json.Unmarshaler = &ContentKeyPolicyPlayReadyLicense{}

func (s *ContentKeyPolicyPlayReadyLicense) UnmarshalJSON(bytes []byte) error {
    type alias ContentKeyPolicyPlayReadyLicense
    var decoded alias
    if err := json.Unmarshal(bytes, &decoded); err != nil {
        return fmt.Errorf("unmarshaling into ContentKeyPolicyPlayReadyLicense: %+v", err)
    }

    s.AllowTestDevices = decoded.AllowTestDevices
    s.BeginDate = decoded.BeginDate
    s.ContentType = decoded.ContentType
    s.ExpirationDate = decoded.ExpirationDate
    s.GracePeriod = decoded.GracePeriod
    s.LicenseType = decoded.LicenseType
    s.PlayRight = decoded.PlayRight
    s.RelativeBeginDate = decoded.RelativeBeginDate
    s.RelativeExpirationDate = decoded.RelativeExpirationDate

    var temp map[string]json.RawMessage
    if err := json.Unmarshal(bytes, &temp); err != nil {
        return fmt.Errorf("unmarshaling ContentKeyPolicyPlayReadyLicense into map[string]json.RawMessage: %+v", err)
    }

    if
    v, ok := temp["contentKeyLocation"]; ok {
        impl, err := unmarshalContentKeyPolicyPlayReadyContentKeyLocationImplementation(v)
        if err != nil {
            return fmt.Errorf("unmarshaling field 'ContentKeyLocation' for 'ContentKeyPolicyPlayReadyLicense': %+v", err)
        }
        s.ContentKeyLocation = impl
    }
    return nil
}

```

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package models

// This file was generated by the swagger tool.

// Editing this file might prove futile when you re-run the swagger generate command

```
import (  
    "context"
```

```
    "github.com/go-openapi/strfmt"  
    "github.com/go-openapi/swag"  
)
```

```
// SoftwareLicenses software licenses
```

```
//
```

```
// swagger:model SoftwareLicenses
```

```
type SoftwareLicenses struct {
```

```
    // IBMi Cloud Storage Solution
```

```
    IbmCSS *bool `json:"ibmiCSS,omitempty"`
```

```

// IBMi Cloud Storage Solution
IbmiDBQ *bool `json:"ibmiDBQ,omitempty"`

// IBMi Power High Availability
IbmiPHA *bool `json:"ibmiPHA,omitempty"`

// IBMi Rational Dev Studio
IbmiRDS *bool `json:"ibmiRDS,omitempty"`

// IBMi Rational Dev Studio Number of User Licenses
IbmiRDSUsers int64 `json:"ibmiRDSUsers,omitempty"`
}

// Validate validates this software licenses
func (m *SoftwareLicenses) Validate(formats strfmt.Registry) error {
    return nil
}

// ContextValidate validates this software licenses based on context it is used
func
(m *SoftwareLicenses) ContextValidate(ctx context.Context, formats strfmt.Registry) error {
    return nil
}

// MarshalBinary interface implementation
func (m *SoftwareLicenses) MarshalBinary() ([]byte, error) {
    if m == nil {
        return nil, nil
    }
    return swag.WriteJSON(m)
}

// UnmarshalBinary interface implementation
func (m *SoftwareLicenses) UnmarshalBinary(b []byte) error {
    var res SoftwareLicenses
    if err := swag.ReadJSON(b, &res); err != nil {
        return err
    }
    *m = res
    return nil
}
package models
import (
    "errors"
)
// Provides operations to manage the collection of agreement entities.
type EditionUpgradeLicenseType int

```

```

const (
    // Product Key Type
    PRODUCTKEY_EDITIONUPGRADELICENSETYPE EditionUpgradeLicenseType = iota
    // License File Type
    LICENSEFILE_EDITIONUPGRADELICENSETYPE
)

func (i EditionUpgradeLicenseType) String() string {
    return []string{"productKey", "licenseFile"}[i]
}

func ParseEditionUpgradeLicenseType(v string) (interface{}, error) {
    result := PRODUCTKEY_EDITIONUPGRADELICENSETYPE
    switch v {
        case "productKey":
            result = PRODUCTKEY_EDITIONUPGRADELICENSETYPE
        case "licenseFile":
            result = LICENSEFILE_EDITIONUPGRADELICENSETYPE
        default:
            return 0, errors.New("Unknown EditionUpgradeLicenseType value: " + v)
    }
    return &result, nil
}

func SerializeEditionUpgradeLicenseType(values []EditionUpgradeLicenseType) []string {
    result := make([]string, len(values))
    for
    i, v := range values {
        result[i] = v.String()
    }
    return result
}

```

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package vsphere

```
import (  
    "log"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
)
```

```
func dataSourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
        Read: dataSourceVSphereLicenseRead,  
  
        Schema: map[string]*schema.Schema{  
            "license_key": {  
                Type:     schema.TypeString,  
                Required: true,  
            },  
  
            // computed properties returned by the API  
            "id": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
            "labels": {  
                Type:     schema.TypeMap,  
                Computed: true,  
                Elem:   &schema.Schema{Type: schema.TypeString},  
            },  
            "edition_key": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
            "name": {  
                Type:     schema.TypeString,  
                Computed: true,  
            },  
            "total": {  
                Type:     schema.TypeInt,  
                Computed: true,  
            },  
            "used": {  
                Type:     schema.TypeInt,
```

```

    Computed: true,
  },
},
}
}

```

```

func dataSourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {

```

```

    client
    := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)
    licenseKey := d.Get("license_key").(string)
    if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
        log.Println("[INFO] Setting the values")
        d.Set("edition_key", info.EditionKey)
        d.Set("total", info.Total)
        d.Set("used", info.Used)
        d.Set("name", info.Name)
        if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
            return err
        }
        d.SetId(licenseKey)
        return nil
    } else {
        return ErrNoSuchKeyFound
    }
}

```

```

package memberswithlicenseerrors

```

```

import (
    "context"
    i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
    i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/group"
    i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/user"
    i44b96843de9edb7831feeb7753f66dad8edcd1bbfaea1ff3b97835638702ed8
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/device"
    i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/application"
    ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/orgcontact"
    ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32 "github.com/microsoftgraph/msgraph-

```

```

sdk-go/groups/item/memberswithlicenseerrors/count"
    iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87
"github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/serviceprincipal"
)

// MembersWithLicenseErrorsRequestBuilder provides operations to manage the membersWithLicenseErrors
property of the microsoft.graph.group entity.
type MembersWithLicenseErrorsRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use
    to build the URL for the current request builder
    urlTemplate string
}
// MembersWithLicenseErrorsRequestBuilderGetQueryParameters a list of group members with license errors from
this group-based license assignment. Read-only.
type MembersWithLicenseErrorsRequestBuilderGetQueryParameters struct {
    // Include count of items
    Count *bool `uriparametername:"%24count"`
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Filter items by property values
    Filter *string `uriparametername:"%24filter"`
    // Order items by property values
    Orderby []string `uriparametername:"%24orderby"`
    // Search items by search phrases
    Search *string `uriparametername:"%24search"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
    // Skip the first n items
    Skip *int32 `uriparametername:"%24skip"`
    // Show only the first n items
    Top *int32 `uriparametername:"%24top"`
}
// MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration
configuration for the request such as headers, query parameters, and middleware options.
type MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *MembersWithLicenseErrorsRequestBuilderGetQueryParameters
}
// Application casts the previous resource to application.
func (m *MembersWithLicenseErrorsRequestBuilder)

```

```

Application)(*i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c.ApplicationRequestBuilder) {
    return
i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c.NewApplicationRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}
// NewMembersWithLicenseErrorsRequestBuilderInternal instantiates a new
MembersWithLicenseErrorsRequestBuilder and sets the default values.
func
NewMembersWithLicenseErrorsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*MembersWithLicenseErrorsRequestBuilder) {
    m := &MembersWithLicenseErrorsRequestBuilder{
    }
    m.urlTemplate =
"+baseurl}/groups/{group%2Did}/membersWithLicenseErrors{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewMembersWithLicenseErrorsRequestBuilder instantiates a new MembersWithLicenseErrorsRequestBuilder
and sets the default values.
func NewMembersWithLicenseErrorsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*MembersWithLicenseErrorsRequestBuilder) {
    urlParams
:= make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewMembersWithLicenseErrorsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *MembersWithLicenseErrorsRequestBuilder)
Count>(*ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32.CountRequestBuilder) {
    return
ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32.NewCountRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}
// CreateGetRequestInformation a list of group members with license errors from this group-based license
assignment. Read-only.
func (m *MembersWithLicenseErrorsRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {

```

```

requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Device casts the previous resource to device.
func (m *MembersWithLicenseErrorsRequestBuilder)
Device>(*i44b96843de9edb7831feeb7753f66dad8edcd1bbfaeea1ff3b97835638702ed8.DeviceRequestBuilder) {
    return
i44b96843de9edb7831feeb7753f66dad8edcd1bbfaeea1ff3b97835638702ed8.NewDeviceRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// Get
a list of group members with license errors from this group-based license assignment. Read-only.
func (m *MembersWithLicenseErrorsRequestBuilder) Get(ctx context.Context, requestConfiguration
*MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba1
7de0380ddda76f641a29edf2b242.DirectoryObjectCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateDirectoryObjectCollectionResp
onseFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }

```

```

    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.DirectoryObjectCollectionRespon
seable), nil
}
// Group casts the previous resource to group.
func (m *MembersWithLicenseErrorsRequestBuilder)
Group>(*i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169.GroupRequestBuilder) {
    return
i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169.NewGroupRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// OrgContact casts the previous resource to orgContact.
func (m *MembersWithLicenseErrorsRequestBuilder)
OrgContact>(*ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216.OrgContactRequestBui
lder) {
    return
ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216.NewOrgContactRequestBuilderIntern
al(m.pathParameters, m.requestAdapter);
}
// ServicePrincipal
casts the previous resource to servicePrincipal.
func (m *MembersWithLicenseErrorsRequestBuilder)
ServicePrincipal(*iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87.ServicePrincipal
RequestBuilder) {
    return
iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87.NewServicePrincipalRequestBuilderI
nternal(m.pathParameters, m.requestAdapter);
}
// User casts the previous resource to user.
func (m *MembersWithLicenseErrorsRequestBuilder)
User(*i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba.UserRequestBuilder) {
    return
i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba.NewUserRequestBuilderInternal(m.pat
hParameters, m.requestAdapter);
}

```

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//WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
//See the License for the specific language governing permissions and
//limitations under the License.
//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
// LicenseAttribute is a nested struct in market response
```

```
type LicenseAttribute struct {
    Code string `json:"Code" xml:"Code"`
    Value string `json:"Value" xml:"Value"`
}
```

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Version 3, 29 June 2007

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```

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```
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package opsworks

```
import (  
    "context"  
    "log"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/opsworks"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conn"
```

```

"github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
"github.com/hashicorp/terraform-provider-aws/internal/tfresource"
)

// @SDKResource("aws_opsworks_permission")
func ResourcePermission() *schema.Resource {
return &schema.Resource{
CreateWithoutTimeout: resourceSetPermission,
ReadWithoutTimeout: resourcePermissionRead,
UpdateWithoutTimeout: resourceSetPermission,
DeleteWithoutTimeout: schema.NoopContext,

Schema: map[string]*schema.Schema{
"allow_ssh": {
Type:
schema.TypeBool,
Computed: true,
Optional: true,
},
"allow_sudo": {
Type: schema.TypeBool,
Computed: true,
Optional: true,
},
"level": {
Type: schema.TypeString,
Computed: true,
Optional: true,
ValidateFunc: validation.StringInSlice([]string{
"deny",
"show",
"deploy",
"manage",
"iam_only",
}, false),
},
"stack_id": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
},
"user_arn": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
},
},
},
}

```

```

}

func resourceSetPermission(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).OpsWorksConn(ctx)

    iamUserARN := d.Get("user_arn).(string)
    stackID := d.Get("stack_id).(string)
    id := iamUserARN + stackID
    input := &opsworks.SetPermissionInput{
        AllowSudo: aws.Bool(d.Get("allow_sudo).(bool)),
        AllowSsh:
            aws.Bool(d.Get("allow_ssh).(bool)),
        IamUserArn: aws.String(iamUserARN),
        StackId:   aws.String(stackID),
    }

    if d.IsNewResource() {
        if v, ok := d.GetOk("level"); ok {
            input.Level = aws.String(v.(string))
        }
    } else if d.HasChange("level") {
        input.Level = aws.String(d.Get("level).(string))
    }

    _, err := tfresource.RetryWhenAWSErrMessageContains(ctx, propagationTimeout, func() (interface{ }, error) {
        return conn.SetPermissionWithContext(ctx, input)
    }, opsworks.ErrCodeResourceNotFoundException, "Unable to find user with ARN")

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "setting OpsWorks Permission (%s): %s", id, err)
    }

    if d.IsNewResource() {
        d.SetId(id)
    }

    return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).OpsWorksConn(ctx)

    permission, err := FindPermissionByTwoPartKey(ctx,
        conn, d.Get("user_arn).(string), d.Get("stack_id).(string))

    if !d.IsNewResource() && tfresource.NotFound(err) {

```

```

log.Printf("[WARN] OpsWorks Permission %s not found, removing from state", d.Id())
d.SetId("")
return diags
}

if err != nil {
return sdkdiag.AppendErrorf(diags, "reading OpsWorks Permission (%s): %s", d.Id(), err)
}

d.Set("allow_ssh", permission.AllowSsh)
d.Set("allow_sudo", permission.AllowSudo)
d.Set("level", permission.Level)
d.Set("stack_id", permission.StackId)
d.Set("user_arn", permission.IamUserArn)

return diags
}

func FindPermissionByTwoPartKey(ctx context.Context, conn *opsworks.OpsWorks, iamUserARN, stackID string)
(*opsworks.Permission, error) {
input := &opsworks.DescribePermissionsInput{
IamUserArn: aws.String(iamUserARN),
StackId: aws.String(stackID),
}

output, err := conn.DescribePermissionsWithContext(ctx, input)

if tfawserr.ErrCodeEquals(err, opsworks.ErrCodeResourceNotFoundException) {
return nil, &retry.NotFoundError{
LastError:
err,
LastRequest: input,
}
}

if err != nil {
return nil, err
}

if output == nil || len(output.Permissions) == 0 || output.Permissions[0] == nil {
return nil, tfresource.NewEmptyResultError(input)
}

if count := len(output.Permissions); count > 1 {
return nil, tfresource.NewTooManyResultsError(count, input)
}

return output.Permissions[0], nil

```

}

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package reprocesslicenseassignment

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// ReprocessLicenseAssignmentRequestBuilder provides operations to call the reprocessLicenseAssignment method.  
type ReprocessLicenseAssignmentRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration configuration  
for the request such as headers, query parameters, and middleware options.  
type ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options
```

```

Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewReprocessLicenseAssignmentRequestBuilderInternal instantiates a new
ReprocessLicenseAssignmentRequestBuilder and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    m := &ReprocessLicenseAssignmentRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/users/{user%2Did}/microsoft.graph.reprocessLicenseAssignment";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters
= urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewReprocessLicenseAssignmentRequestBuilder instantiates a new ReprocessLicenseAssignmentRequestBuilder
and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewReprocessLicenseAssignmentRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation reprocess all group-based license assignments for the user. To learn more about
group-based licensing, see What is group-based licensing in Azure Active Directory. Also see Identify and resolve
license assignment problems for a group in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) CreatePostRequestInformation(ctx context.Context,
requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df63981
3ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post reprocess all group-based license assignments for the user. To learn more about group-based licensing, see

```

What is group-based licensing in Azure Active Directory. Also see Identify and resolve license assignment problems for a group

in Azure Active Directory for more details.

```
func (m *ReprocessLicenseAssignmentRequestBuilder) Post(ctx context.Context, requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bb
a17de0380ddda76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
```

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schemaVersion: oss-license-declaration.cloud.ibm.com:v4

name: bluemix-go

source: <https://github.com/IBM-Cloud/bluemix-go>

issues: <https://github.ibm.com/blueprint/schematics-compliance/issues>

objectCodeOnly: false

additionalDownloads:

include:

- go modules

exclude:

- name: glide
documentation: Package manager not invoked in build nor runtime use
- name: nodejs
documentation: Package manager not invoked in build nor runtime use
- name: yarn
documentation: Package manager not invoked in build nor runtime use

dependencies:

- name: github.com/BurntSushi/toml
version: v0.3.1
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- name: github.com/asaskevich/govalidator
version: v0.0.0-20200907205600-7a23bdc65eef
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- name: github.com/aws/aws-sdk-go
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version: v1.26.0
- name: gopkg.in/check.v1
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version: v2.1.0
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- name: gopkg.in/yaml.v2
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- name: gopkg.in/yaml.v3
version: v3.0.0-20200605160147-a5ece683394c
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package licensemanager

```

import (
    "context"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/licensemanager"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
)

// @SDKDataSource("aws_licensemanager_grants")
func DataSourceDistributedGrants() *schema.Resource {
    return &schema.Resource{
        ReadWithoutTimeout: dataSourceDistributedGrantsRead,
        Schema: map[string]*schema.Schema{
            "filter": DataSourceFiltersSchema(),
            "arns": {
                Type:     schema.TypeList,
                Computed: true,
                Elem:     &schema.Schema{Type: schema.TypeString},
            },
        },
    }
}

func dataSourceDistributedGrantsRead(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics
{
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

    in := &licensemanager.ListDistributedGrantsInput{}

    in.Filters = BuildFiltersDataSource(
        d.Get("filter").(*schema.Set),
    )

    if len(in.Filters) == 0 {
        in.Filters = nil
    }

    out, err := FindDistributedDistributedGrants(ctx, conn, in)

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading Distributes Grants: %s", err)
    }
}

```

```

}

var grantARNs []string

for _, v := range out {
    grantARNs = append(grantARNs, aws.StringValue(v.GrantArn))
}

d.SetId(meta.(*conns.AWSClient).Region)
d.Set("arns", grantARNs)

return diags
}

func FindDistributedDistributedGrants(ctx context.Context, conn *licensemanager.LicenseManager, in
*licensemanager.ListDistributedGrantsInput) ([]*licensemanager.Grant, error) {
    var out []*licensemanager.Grant

    err := listDistributedGrantsPages(ctx, conn, in, func(page *licensemanager.ListDistributedGrantsOutput, lastPage
bool) bool {
        if page == nil {
            return
            !lastPage
        }

        for _, v := range page.Grants {
            if v != nil {
                out = append(out, v)
            }
        }

        return !lastPage
    })

    if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeResourceNotFoundException) {
        return nil, &retry.NotFoundError{
            LastError: err,
            LastRequest: in,
        }
    }

    if err != nil {
        return nil, err
    }

    return out, nil
}

```

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package models

```
import (
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
    abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
    abstractions-go/serialization"
)

// LicenseDetails provides operations to manage the collection of agreement entities.
type LicenseDetails struct {
    Entity
    // Information about the service plans assigned with the license. Read-only, Not nullable
    servicePlans []ServicePlanInfoable
    // Unique identifier (GUID) for the service SKU. Equal to the skuId property on the related SubscribedSku object.
    Read-only
    skuId *string
    // Unique SKU display name. Equal to the skuPartNumber on the related SubscribedSku object; for example:
    'AAD_Premium'. Read-only
    skuPartNumber *string
}
// NewLicenseDetails instantiates a new licenseDetails and sets the default values.
func NewLicenseDetails(*LicenseDetails) {
    m := &LicenseDetails{

Entity: *NewEntity(),
    }
    return m
}
// CreateLicenseDetailsFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseDetailsFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseDetails(), nil
}
```

```

// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseDetails)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.Entity.GetFieldDeserializers()
    res["servicePlans"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateS
ervicePlanInfoFromDiscriminatorValue , m.SetServicePlans)
    res["skuId"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)

    res["skuPartNumber"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuPartNumber)
    return res
}
// GetServicePlans gets the servicePlans property value. Information about the service plans assigned with the
license. Read-only, Not nullable
func (m *LicenseDetails) GetServicePlans()([]ServicePlanInfoable) {
    return m.servicePlans
}
// GetSkuId gets the skuId property value. Unique identifier (GUID) for the service SKU. Equal to the skuId
property on the related SubscribedSku object. Read-only
func (m *LicenseDetails) GetSkuId>(*string) {
    return m.skuId
}
// GetSkuPartNumber gets the skuPartNumber property value. Unique SKU display name. Equal to the
skuPartNumber on the related SubscribedSku object; for example: 'AAD_Premium'. Read-only
func (m *LicenseDetails) GetSkuPartNumber>(*string) {
    return m.skuPartNumber
}
// Serialize serializes information the current object
func (m *LicenseDetails) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error)
{
    err := m.Entity.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetServicePlans() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetServicePlans())
        err = writer.WriteCollectionOfObjectValues("servicePlans", cast)
        if err != nil {
            return err
        }
    }
}

```

```

    err = writer.WriteStringValue("skuId", m.GetSkuId())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteStringValue("skuPartNumber", m.GetSkuPartNumber())
    if err != nil {
        return err
    }
}
return nil
}
// SetServicePlans sets the servicePlans property value. Information about the service plans assigned with the
license. Read-only, Not nullable
func (m *LicenseDetails) SetServicePlans(value
[]ServicePlanInfoable)() {
    m.servicePlans = value
}
// SetSkuId sets the skuId property value. Unique identifier (GUID) for the service SKU. Equal to the skuId property
on the related SubscribedSku object. Read-only
func (m *LicenseDetails) SetSkuId(value *string)() {
    m.skuId = value
}
// SetSkuPartNumber sets the skuPartNumber property value. Unique SKU display name. Equal to the
skuPartNumber on the related SubscribedSku object; for example: 'AAD_Premium'. Read-only
func (m *LicenseDetails) SetSkuPartNumber(value *string)() {
    m.skuPartNumber = value
}
}
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```

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package grant

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadc81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantPostRequestBodyable  
type GrantPostRequestBodyable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetRecipients()([]iadc81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)  
    GetRoles()([]string)  
    SetRecipients(value  
    []iadc81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)()  
    SetRoles(value []string)()
```

```

}
package grafana

import (
    "context"
    "log"
    "time"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/managedgrafana"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"
)

// @SDKResource("aws_grafana_license_association")
func ResourceLicenseAssociation() *schema.Resource {
    return &schema.Resource{
        CreateWithoutTimeout: resourceLicenseAssociationCreate,
        ReadWithoutTimeout:  resourceLicenseAssociationRead,
        DeleteWithoutTimeout: resourceLicenseAssociationDelete,

        Importer: &schema.ResourceImporter{
            StateContext: schema.ImportStatePassthroughContext,
        },

        Timeouts: &schema.ResourceTimeout{
            Create:
                schema.DefaultTimeout(10 * time.Minute),
            Delete: schema.DefaultTimeout(10 * time.Minute),
        },

        Schema: map[string]*schema.Schema{
            "free_trial_expiration": {
                Type: schema.TypeString,
                Computed: true,
            },
            "license_expiration": {
                Type: schema.TypeString,
                Computed: true,
            },
            "license_type": {
                Type: schema.TypeString,
                Required: true,
            }
        }
    }
}

```

```

ForceNew: true,
ValidateFunc: validation.StringInSlice(managedgrafana.LicenseType_Values(), false),
},
"workspace_id": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
},
},
}
}

func resourceLicenseAssociationCreate(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
var diags diag.Diagnostics
conn := meta.(*conns.AWSClient).GrafanaConn(ctx)

input := &managedgrafana.AssociateLicenseInput{
LicenseType: aws.String(d.Get("license_type").(string)),
WorkspaceId: aws.String(d.Get("workspace_id").(string)),
}

log.Printf("[DEBUG]
Creating Grafana License Association: %s", input)
output, err := conn.AssociateLicenseWithContext(ctx, input)

if err != nil {
return sdkdiag.AppendErrorf(diags, "creating Grafana License Association: %s", err)
}

d.SetId(aws.StringValue(output.Workspace.Id))

if _, err := waitLicenseAssociationCreated(ctx, conn, d.Id(), d.Timeout(schema.TimeoutCreate)); err != nil {
return sdkdiag.AppendErrorf(diags, "waiting for Grafana License Association (%s) create: %s", d.Id(), err)
}

return append(diags, resourceLicenseAssociationRead(ctx, d, meta)...)
}

func resourceLicenseAssociationRead(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
var diags diag.Diagnostics
conn := meta.(*conns.AWSClient).GrafanaConn(ctx)

workspace, err := FindLicensedWorkspaceByID(ctx, conn, d.Id())

if tfresource.NotFound(err) && !d.IsNewResource() {
log.Printf("[WARN] Grafana License Association (%s) not found, removing

```

```

from state", d.Id())
d.SetId("")
return diags
}

if err != nil {
return sdkdiag.AppendErrorf(diags, "reading Grafana License Association (%s): %s", d.Id(), err)
}

if workspace.FreeTrialExpiration != nil {
d.Set("free_trial_expiration", workspace.FreeTrialExpiration.Format(time.RFC3339))
} else {
d.Set("free_trial_expiration", nil)
}
if workspace.LicenseExpiration != nil {
d.Set("license_expiration", workspace.LicenseExpiration.Format(time.RFC3339))
} else {
d.Set("license_expiration", nil)
}
d.Set("license_type", workspace.LicenseType)

return diags
}

func resourceLicenseAssociationDelete(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
var diags diag.Diagnostics
conn := meta.(*conns.AWSClient).GrafanaConn(ctx)

log.Printf("[DEBUG] Deleting Grafana License Association: %s", d.Id())
_, err := conn.DisassociateLicenseWithContext(ctx, &managedgrafana.DisassociateLicenseInput{
LicenseType: aws.String(d.Get("license_type").(string)),
WorkspaceId:
aws.String(d.Id()),
})

if tfawserr.ErrCodeEquals(err, managedgrafana.ErrCodeResourceNotFoundException) {
return diags
}

if err != nil {
return sdkdiag.AppendErrorf(diags, "deleting Grafana License Association (%s): %s", d.Id(), err)
}

if _, err := waitWorkspaceUpdated(ctx, conn, d.Id(), d.Timeout(schema.TimeoutDelete)); err != nil {
return sdkdiag.AppendErrorf(diags, "waiting for Grafana License Association (%s) delete: %s", d.Id(), err)
}
}

```

```
return diags
}
/*
```

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```
*/
```

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```

```
package simulator
```

```
import (
```

```
"github.com/vmware/govmomi/vim25/methods"
```

```
"github.com/vmware/govmomi/vim25/mo"
```

```
"github.com/vmware/govmomi/vim25/soap"
```

```
"github.com/vmware/govmomi/vim25/types"
```

```
)
```

```
// EvalLicense is the default license
```

```
var EvalLicense = types.LicenseManagerLicenseInfo{
```

```
LicenseKey: "00000-00000-00000-00000-00000",
```

```
EditionKey: "eval",
```

```
Name:      "Evaluation Mode",
```

```
Properties: []types.KeyAnyValue{
```

```
{
```

```

Key: "feature",
Value: types.KeyValue{
  Key: "serialuri:2",
  Value: "Remote virtual Serial Port Concentrator",
},
},
{
Key: "feature",
Value: types.KeyValue{
  Key: "dvs",
  Value: "vSphere Distributed Switch",
},
},
},
}

```

```

type LicenseManager struct {
  mo.LicenseManager
}

```

```

func (m *LicenseManager) init(r *Registry) {
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
}

```

```

if
r.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
}
}

```

```

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{ },
  }
}

```

```

for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
    body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
    return body
  }
}
}

```

```

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels: req.Labels,
})
}

```

```

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
}

```

```

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{ },
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
return body
}
}
return
body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{ }

for i := range m.Licenses {
license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey {
continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
label := &license.Labels[j]

if label.Key == req.LabelKey {
if req.LabelValue == "" {
license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
} else {
label.Value = req.LabelValue
}
}
return body
}
}

license.Labels = append(license.Labels, types.KeyValue{
Key: req.LabelKey,
Value: req.LabelValue,
})
}

```

```

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels
}

```

```
return info
}
```

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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package synclicenses

```
import (  
  "context"  
  i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
  iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
  "github.com/microsoftgraph/msgraph-sdk-go/models"  
  ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
  "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)
```

```

// SyncLicensesRequestBuilder provides operations to call the syncLicenses method.
type SyncLicensesRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// SyncLicensesRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware
options.
type SyncLicensesRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewSyncLicensesRequestBuilderInternal instantiates a new SyncLicensesRequestBuilder and sets the default
values.
func NewSyncLicensesRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*SyncLicensesReque
stBuilder) {
    m := &SyncLicensesRequestBuilder{
    }
    m.urlTemplate =
    "{+baseurl}/deviceAppManagement/vppTokens/{vppToken%2Did}/microsoft.graph.syncLicenses";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewSyncLicensesRequestBuilder instantiates a new SyncLicensesRequestBuilder
and sets the default values.
func NewSyncLicensesRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*SyncLicensesReque
stBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewSyncLicensesRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation syncs licenses associated with a specific appleVolumePurchaseProgramToken
func (m *SyncLicensesRequestBuilder) CreatePostRequestInformation(ctx context.Context, requestConfiguration
*SyncLicensesRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {

```

```

requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
requestInfo.UrlTemplate = m.urlTemplate
requestInfo.PathParameters = m.pathParameters
requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
requestInfo.Headers["Accept"] = "application/json"
if requestConfiguration != nil {
    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Post syncs licenses associated with a specific appleVolumePurchaseProgramToken
func (m *SyncLicensesRequestBuilder) Post(ctx context.Context, requestConfiguration
*SyncLicensesRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda
76f641a29edf2b242.VppTokenable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateVppTokenFromDiscriminatorV
alue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.VppTokenable), nil
}

```

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package contentkeypolicies

```
import (  
    "encoding/json"  
    "fmt"  
    "time"
```

```

"github.com/hashicorp/go-azure-helpers/lang/dates"
)

// Copyright (c) Microsoft Corporation. All rights reserved.
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type ContentKeyPolicyPlayReadyLicense struct {
    AllowTestDevices    bool                `json:"allowTestDevices"`
    BeginDate           *string            `json:"beginDate,omitEmpty"`
    ContentKeyLocation  ContentKeyPolicyPlayReadyContentKeyLocation `json:"contentKeyLocation"`
    ContentType         ContentKeyPolicyPlayReadyContentType `json:"contentType"`
    ExpirationDate     *string            `json:"expirationDate,omitEmpty"`
    GracePeriod        *string            `json:"gracePeriod,omitEmpty"`
    LicenseType        ContentKeyPolicyPlayReadyLicenseType `json:"licenseType"`
    PlayRight
        *ContentKeyPolicyPlayReadyPlayRight `json:"playRight,omitEmpty"`
    RelativeBeginDate  *string            `json:"relativeBeginDate,omitEmpty"`
    RelativeExpirationDate *string            `json:"relativeExpirationDate,omitEmpty"`
    SecurityLevel      *SecurityLevel    `json:"securityLevel,omitEmpty"`
}

func (o *ContentKeyPolicyPlayReadyLicense) GetBeginDateAsTime() (*time.Time, error) {
    if o.BeginDate == nil {
        return nil, nil
    }
    return dates.ParseAsFormat(o.BeginDate, "2006-01-02T15:04:05Z07:00")
}

func (o *ContentKeyPolicyPlayReadyLicense) SetBeginDateAsTime(input time.Time) {
    formatted := input.Format("2006-01-02T15:04:05Z07:00")
    o.BeginDate = &formatted
}

func (o *ContentKeyPolicyPlayReadyLicense) GetExpirationDateAsTime() (*time.Time, error) {
    if o.ExpirationDate == nil {
        return nil, nil
    }
    return dates.ParseAsFormat(o.ExpirationDate, "2006-01-02T15:04:05Z07:00")
}

func
(o *ContentKeyPolicyPlayReadyLicense) SetExpirationDateAsTime(input time.Time) {
    formatted := input.Format("2006-01-02T15:04:05Z07:00")
    o.ExpirationDate = &formatted
}

var _ json.Unmarshaler = &ContentKeyPolicyPlayReadyLicense{}

```

```

func (s *ContentKeyPolicyPlayReadyLicense) UnmarshalJSON(bytes []byte) error {
    type alias ContentKeyPolicyPlayReadyLicense
    var decoded alias
    if err := json.Unmarshal(bytes, &decoded); err != nil {
        return fmt.Errorf("unmarshaling into ContentKeyPolicyPlayReadyLicense: %+v", err)
    }

    s.AllowTestDevices = decoded.AllowTestDevices
    s.BeginDate = decoded.BeginDate
    s.ContentType = decoded.ContentType
    s.ExpirationDate = decoded.ExpirationDate
    s.GracePeriod = decoded.GracePeriod
    s.LicenseType = decoded.LicenseType
    s.PlayRight = decoded.PlayRight
    s.RelativeBeginDate = decoded.RelativeBeginDate
    s.RelativeExpirationDate = decoded.RelativeExpirationDate
    s.SecurityLevel = decoded.SecurityLevel

    var temp map[string]json.RawMessage
    if err := json.Unmarshal(bytes,
        &temp); err != nil {
        return fmt.Errorf("unmarshaling ContentKeyPolicyPlayReadyLicense into map[string]json.RawMessage: %+v", err)
    }

    if v, ok := temp["contentKeyLocation"]; ok {
        impl, err := unmarshalContentKeyPolicyPlayReadyContentKeyLocationImplementation(v)
        if err != nil {
            return fmt.Errorf("unmarshaling field 'ContentKeyLocation' for 'ContentKeyPolicyPlayReadyLicense': %+v", err)
        }
        s.ContentKeyLocation = impl
    }
    return nil
}
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```

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package item

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// LicenseDetailsItemRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.  
type LicenseDetailsItemRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// LicenseDetailsItemRequestBuilderDeleteRequestConfiguration configuration for the  
request such as headers, query parameters, and middleware options.  
type LicenseDetailsItemRequestBuilderDeleteRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// LicenseDetailsItemRequestBuilderGetQueryParameters a collection of this user's license details. Read-only.  
type LicenseDetailsItemRequestBuilderGetQueryParameters struct {  
    // Expand related entities  
    Expand []string `uriparametername:"%24expand"`  
    // Select properties to be returned  
    Select []string `uriparametername:"%24select"`
```

```

}
// LicenseDetailsItemRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsItemRequestBuilderGetQueryParameters
}
// LicenseDetailsItemRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderPatchRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsItemRequestBuilderInternal instantiates a new LicenseDetailsItemRequestBuilder and sets the
default values.
func NewLicenseDetailsItemRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    m := &LicenseDetailsItemRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/me/licenseDetails/{licenseDetails%2Did}{?%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewLicenseDetailsItemRequestBuilder instantiates a new LicenseDetailsItemRequestBuilder and sets the default
values.
func NewLicenseDetailsItemRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewLicenseDetailsItemRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property licenseDetails for me
func (m *LicenseDetailsItemRequestBuilder) CreateDeleteRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa

```

```

529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52
9013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property licenseDetails in me
func (m *LicenseDetailsItemRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {

```

```

    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Delete delete navigation property licenseDetails for me
func (m *LicenseDetailsItemRequestBuilder) Delete(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(error) {
    requestInfo,
    err := m.CreateDeleteRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380
ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err

```

```

    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}
// Patch update the navigation property licenseDetails in me
func (m *LicenseDetailsItemRequestBuilder) Patch(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de03
80dda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
iad572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
iad572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable),
nil
}

```

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Go-Azure-SDK

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* SOURCE:

* <https://www.github.com/Azure/azure-rest-api-specs>

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* github.com/BurntSushi/toml - <https://github.com/BurntSushi/toml>

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* github.com/kisielk/gotool - <https://github.com/kisielk/gotool>

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - <https://github.com/rogpeppe/go-internal>

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* golang.org/x/mod/module - <https://github.com/golang/mod>

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* golang.org/x/tools/go/analysis - <https://github.com/golang/tools>

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* [gogrep](https://github.com/mvdan/gogrep) - <https://github.com/mvdan/gogrep>

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package licensemanager

```
import (  
    "context"  
    "errors"  
    "strconv"  
    "time"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/licensemanager"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/create"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
    "github.com/hashicorp/terraform-provider-aws/internal/verify"  
    "github.com/hashicorp/terraform-provider-aws/names"  
)  
  
const (  
    ResReceivedLicense = "Received License"  
)  
  
// @SDKDataSource("aws_licensemanager_received_license")  
func DataSourceReceivedLicense() *schema.Resource {
```

```

return &schema.Resource{
  ReadWithoutTimeout: dataSourceReceivedLicenseRead,
  Schema:
  map[string]*schema.Schema{
    "beneficiary": {
      Computed: true,
      Type:     schema.TypeString,
    },
    "consumption_configuration": {
      Computed: true,
      Type:     schema.TypeList,
      Elem:     &schema.Resource{
        Schema: map[string]*schema.Schema{
          "borrow_configuration": {
            Type:     schema.TypeList,
            Computed: true,
            Elem:     &schema.Resource{
              Schema: map[string]*schema.Schema{
                "allow_early_check_in": {
                  Computed: true,
                  Type:     schema.TypeBool,
                },
                "max_time_to_live_in_minutes": {
                  Computed: true,
                  Type:     schema.TypeInt,
                },
              },
            },
          },
          "provisional_configuration": {
            Type:     schema.TypeList,
            Computed: true,
            Elem:     &schema.Resource{
              Schema: map[string]*schema.Schema{
                "max_time_to_live_in_minutes": {
                  Computed: true,
                  Type:     schema.TypeInt,
                },
              },
            },
          },
          "renew_type":
        {
          Type:     schema.TypeString,
          Computed: true,
        },
      },
    },
  },
}

```

```

},
"create_time": {
  Computed: true,
  Type:  schema.TypeString,
},
"entitlements": {
  Computed: true,
  Type:  schema.TypeSet,
  Elem: &schema.Resource{
    Schema: map[string]*schema.Schema{
      "allow_check_in": {
        Type:  schema.TypeBool,
        Computed: true,
      },
      "max_count": {
        Type:  schema.TypeInt,
        Computed: true,
      },
      "name": {
        Type:  schema.TypeString,
        Computed: true,
      },
      "unit": {
        Type:  schema.TypeString,
        Computed: true,
      },
      "value": {
        Type:  schema.TypeString,
        Computed: true,
      },
    },
  },
},
"home_region": {
  Computed: true,
  Type:  schema.TypeString,
},
"issuer": {
  Computed: true,
  Type:  schema.TypeList,
  Elem: &schema.Resource{
    Schema: map[string]*schema.Schema{
      "key_fingerprint":
    {
      Type:  schema.TypeString,
      Computed: true,
    },
      "name": {

```

```

    Type:  schema.TypeString,
    Computed: true,
  },
  "sign_key": {
    Type:  schema.TypeString,
    Computed: true,
  },
},
},
},
"license_arn": {
  Required:  true,
  Type:     schema.TypeString,
  ValidateFunc: verify.ValidARN,
},
"license_metadata": {
  Computed: true,
  Type:     schema.TypeSet,
  Elem: &schema.Resource{
    Schema: map[string]*schema.Schema{
      "name": {
        Type:  schema.TypeString,
        Computed: true,
      },
      "value": {
        Type:  schema.TypeString,
        Computed: true,
      },
    },
  },
},
},
"license_name": {
  Computed: true,
  Type:     schema.TypeString,
},
"product_name": {
  Computed: true,
  Type:     schema.TypeString,
},
"product_sku": {
  Computed: true,
  Type:     schema.TypeString,
},
"received_metadata":
{
  Computed: true,
  Type:     schema.TypeList,
  Elem: &schema.Resource{

```

```

Schema: map[string]*schema.Schema{
  "allowed_operations": {
    Type: schema.TypeSet,
    Computed: true,
    Elem: &schema.Schema{
      Type: schema.TypeString,
    },
  },
  "received_status": {
    Type: schema.TypeString,
    Computed: true,
  },
  "received_status_reason": {
    Type: schema.TypeString,
    Computed: true,
  },
},
},
},
},
"status": {
  Computed: true,
  Type: schema.TypeString,
},
"validity": {
  Computed: true,
  Type: schema.TypeList,
  Elem: &schema.Resource{
    Schema: map[string]*schema.Schema{
      "begin": {
        Type: schema.TypeString,
        Computed: true,
      },
      "end": {
        Type: schema.TypeString,
        Computed: true,
      },
    },
  },
},
},
"version": {
  Computed: true,
  Type: schema.TypeString,
},
},
}
}

```

func

```

dataSourceReceivedLicenseRead(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics
{
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

    arn := d.Get("license_arn).(string)

    in := &licensemanager.ListReceivedLicensesInput{
        LicenseArns: aws.StringSlice([]string{ arn }),
    }

    out, err := FindReceivedLicenseByARN(ctx, conn, in)

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading License Manager Received License (%s): %s", arn, err)
    }

    d.SetId(aws.StringValue(out.LicenseArn))
    d.Set("beneficiary", out.Beneficiary)
    d.Set("consumption_configuration",
[]interface{ }{flattenConsumptionConfiguration(out.ConsumptionConfiguration)})
    d.Set("entitlements", flattenEntitlements(out.Entitlements))
    d.Set("home_region", out.HomeRegion)
    d.Set("issuer", []interface{ }{flattenIssuer(out.Issuer)})
    d.Set("license_arn", out.LicenseArn)
    d.Set("license_metadata", flattenMetadatas(out.LicenseMetadata))
    d.Set("license_name",
out.LicenseName)
    d.Set("product_name", out.ProductName)
    d.Set("product_sku", out.ProductSKU)
    d.Set("received_metadata", []interface{ }{flattenReceivedMetadata(out.ReceivedMetadata)})
    d.Set("status", out.Status)
    d.Set("validity", []interface{ }{flattenDateTimeRange(out.Validity)})
    d.Set("version", out.Version)

    if v := aws.StringValue(out.CreateTime); v != "" {
        seconds, err := strconv.ParseInt(v, 10, 64)
        if err != nil {
            return sdkdiag.AppendErrorf(diags, "reading License Manager Received License (%s): %s", arn, err)
        }
        d.Set("create_time", time.Unix(seconds, 0).UTC().Format(time.RFC3339))
    }

    return diags
}

func FindReceivedLicenseByARN(ctx context.Context, conn *licensemanager.LicenseManager, in
*licensemanager.ListReceivedLicensesInput) (*licensemanager.GrantedLicense, error) {

```

```

out, err := conn.ListReceivedLicensesWithContext(ctx, in)

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeResourceNotFoundException) {
    return nil, &retry.NotFoundError{
        LastError:
            err,
        LastRequest: in,
    }
}

if err != nil {
    return nil, err
}

if len(out.Licenses) == 0 {
    return nil, tfresource.NewEmptyResultError(in)
}

if len(out.Licenses) > 1 {
    return nil, create.Error(names.LicenseManager, create.ErrActionReading, ResReceivedLicense, *in.LicenseArns[0],
errors.New("More than one License Returned by the API."))
}

return out.Licenses[0], nil
}

func flattenConsumptionConfiguration(apiObject *licensemanager.ConsumptionConfiguration)
map[string]interface{} {
    if apiObject == nil {
        return nil
    }

    tfMap := map[string]interface{}{}

    if v := apiObject.BorrowConfiguration; v != nil {
        tfMap["borrow_configuration"] = map[string]interface{}{
            "max_time_to_live_in_minutes": v.MaxTimeToLiveInMinutes,
            "allow_early_check_in":      v.AllowEarlyCheckIn,
        }
    }

    if v := apiObject.ProvisionalConfiguration.MaxTimeToLiveInMinutes; v != nil {
        tfMap["provisional_configuration"] = []interface{}{map[string]interface{}{
            "max_time_to_live_in_minutes":
                int(aws.Int64Value(v)),
        }}
    }
}

```

```

if v := apiObject.RenewType; v != nil {
    tfMap["renew_type"] = v
}

return tfMap
}

func flattenEntitlements(apiObjects []*licensemanager.Entitlement) []interface{} {
if len(apiObjects) == 0 {
    return nil
}

var tfList []interface{}

for _, apiObject := range apiObjects {
if apiObject == nil {
    continue
}

out := flattenEntitlement(apiObject)

if len(out) > 0 {
    tfList = append(tfList, out)
}
}

return tfList
}

func flattenEntitlement(apiObject *licensemanager.Entitlement) map[string]interface{} {
if apiObject == nil {
    return nil
}

tfMap := map[string]interface{}{}

if v := apiObject.AllowCheckIn; v != nil {
    tfMap["allow_check_in"] = v
}

if v := apiObject.MaxCount; v != nil {
    tfMap["max_count"] = v
}

if v := apiObject.Name; v != nil {
    tfMap["name"] = v
}
}

```

```

if v := apiObject.Overage; v != nil {
    tfMap["overage"] = v
}

if v := apiObject.Unit; v != nil {
    tfMap["unit"] = v
}

if v := apiObject.Value;
v != nil {
    tfMap["value"] = v
}

return tfMap
}

func flattenIssuer(apiObject *licensemanager.IssuerDetails) map[string]interface{} {
    if apiObject == nil {
        return nil
    }

    tfMap := map[string]interface{} {}

    if v := apiObject.KeyFingerprint; v != nil {
        tfMap["key_fingerprint"] = v
    }

    if v := apiObject.Name; v != nil {
        tfMap["name"] = v
    }

    if v := apiObject.SignKey; v != nil {
        tfMap["sign_key"] = v
    }

    return tfMap
}

func flattenMetadatas(apiObjects []*licensemanager.Metadata) []interface{} {
    if len(apiObjects) == 0 {
        return nil
    }

    var tfList []interface{}

    for _, apiObject := range apiObjects {
        if apiObject == nil {
            continue

```

```

}

out := flattenLicenseMetadata(apiObject)

if len(out) > 0 {
    tfList = append(tfList, out)
}
}

return tfList
}

func flattenLicenseMetadata(apiObject *licensemanager.Metadata) map[string]interface{} {
    if apiObject == nil {
        return nil
    }

    tfMap := map[string]interface{} {}

    if v := apiObject.Name; v != nil
    {
        tfMap["name"] = v
    }

    if v := apiObject.Value; v != nil {
        tfMap["value"] = v
    }

    return tfMap
}

func flattenReceivedMetadata(apiObject *licensemanager.ReceivedMetadata) map[string]interface{} {
    if apiObject == nil {
        return nil
    }

    tfMap := map[string]interface{} {}

    if v := apiObject.AllowedOperations; v != nil {
        tfMap["allowed_operations"] = v
    }

    if v := apiObject.ReceivedStatus; v != nil {
        tfMap["received_status"] = v
    }

    if v := apiObject.ReceivedStatusReason; v != nil {
        tfMap["received_status_reason"] = v
    }
}

```

```

}

return tfMap
}

func flattenDateTimeRange(apiObject *licensemanager.DatetimeRange) map[string]interface{} {
if apiObject == nil {
return nil
}

tfMap := map[string]interface{} {}

if v := apiObject.Begin; v != nil {
tfMap["begin"] = v
}

if v := apiObject.End; v != nil {
tfMap["end"] = v
}

return tfMap
}

```

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// ActivateLicense invokes the market.ActivateLicense API synchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
func (client *Client) ActivateLicense(request
*ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
    response = CreateActivateLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan
*ActivateLicenseResponse, <-chan error) {
    responseChan := make(chan *ActivateLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.ActivateLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
}

```

```

return responseChan, errChan
}

// ActivateLicenseWithCallback invokes
the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response
*ActivateLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *ActivateLicenseResponse
var err error
defer close(result)
response, err = client.ActivateLicense(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result
}

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
*requests.RpcRequest
Identification string `position:"Query" name:"Identification"`
LicenseCode string `position:"Query" name:"LicenseCode"`
}

// ActivateLicenseResponse is the response struct for
api ActivateLicense
type ActivateLicenseResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"`
Success bool `json:"Success" xml:"Success"`
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
request = &ActivateLicenseRequest{
RpcRequest: &requests.RpcRequest{ },
}
request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
return
}

```

```
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
    response = &ActivateLicenseResponse{
        BaseResponse: &responses.BaseResponse{ },
    }
    return
}

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package spec

```
// License information for the exposed API.  
//  
// For more information: http://goo.gl/8us55a#licenseObject  
type License struct {  
    Name string `json:"name,omitempty"`  
    URL string `json:"url,omitempty"`  
}  
  
    Apache License  
    Version 2.0, January 2004  
    http://www.apache.org/licenses/
```

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import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// ReprocessLicenseAssignmentRequestBuilder provides operations to call the reprocessLicenseAssignment method.  
type ReprocessLicenseAssignmentRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration configuration  
for the request such as headers, query parameters, and middleware options.  
type ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewReprocessLicenseAssignmentRequestBuilderInternal instantiates a new  
ReprocessLicenseAssignmentRequestBuilder and sets the default values.  
func NewReprocessLicenseAssignmentRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA  
ssignmentRequestBuilder) {  
    m := &ReprocessLicenseAssignmentRequestBuilder{  
    }  
    m.urlTemplate = "{+baseurl}/me/microsoft.graph.reprocessLicenseAssignment";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters  
= urlTplParams;  
    m.requestAdapter = requestAdapter;  
    return m  
}
```

```

// NewReprocessLicenseAssignmentRequestBuilder instantiates a new ReprocessLicenseAssignmentRequestBuilder
and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewReprocessLicenseAssignmentRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation reprocess all group-based license assignments for the user. To learn more about
group-based licensing, see What is group-based licensing in Azure Active Directory. Also see Identify and resolve
license assignment problems for a group in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) CreatePostRequestInformation(ctx context.Context,
requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df63981
3ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post reprocess all group-based license assignments for the user. To learn more about group-based licensing, see
What is group-based licensing in Azure Active Directory. Also see Identify and resolve license assignment problems
for a group in Azure Active
Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) Post(ctx context.Context, requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bb
a17de0380ddda76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,

```

```

iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res
== nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
package api

import (
    "fmt"
    "io/ioutil"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time"`

    // The product the license is valid for
    Product string `json:"product"`

    // License Specific Flags
    Flags map[string]interface{} `json:"flags"`
}

```

```

// Modules is a list
of the licensed enterprise modules
Modules []string `json:"modules"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.NewRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license
// stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API

```

```

func (*Operator) LicenseReset(_ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (*Operator) LicensePut(_ string, _ *WriteOptions) (*LicenseReply, error) {
    return nil, fmt.Errorf("Consul 1.10 no longer supports API driven license management.")
}

```

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package market

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//limitations under the License.  
//  
// Code generated by Alibaba Cloud SDK Code Generator.  
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"  
)
```

```
// DescribeLicense invokes the market.DescribeLicense API synchronously  
// api document: https://help.aliyun.com/api/market/describelicense.html  
func (client *Client) DescribeLicense(request
```

```

*DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {
response = CreateDescribeLicenseResponse()
err = client.DoAction(request, response)
return
}

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan
*DescribeLicenseResponse, <-chan error) {
responseChan := make(chan *DescribeLicenseResponse, 1)
errChan := make(chan error, 1)
err := client.AddAsyncTask(func() {
defer close(responseChan)
defer close(errChan)
response, err := client.DescribeLicense(request)
if err != nil {
errChan <- err
} else {
responseChan <- response
}
})
if err != nil {
errChan <- err
close(responseChan)
close(errChan)
}
return responseChan, errChan
}

// DescribeLicenseWithCallback invokes
the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response
*DescribeLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *DescribeLicenseResponse
var err error
defer close(result)
response, err = client.DescribeLicense(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
}
}

```

```

callback(nil, err)
result <- 0
}
return result
}

// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
    *requests.RpcRequest
    LicenseCode string `position:"Query" name:"LicenseCode"`
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
    *responses.BaseResponse
    RequestId
    string `json:"RequestId" xml:"RequestId"`
    License License `json:"License" xml:"License"`
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
    request = &DescribeLicenseRequest{
        RpcRequest: &requests.RpcRequest{ },
    }
    request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
    return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
    response = &DescribeLicenseResponse{
        BaseResponse: &responses.BaseResponse{ },
    }
    return
}

```

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Version 2.0, January 2004

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package vsphere

```
import (  
    "errors"  
    "fmt"  
    "log"  
  
    "context"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
var (  
    // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.  
    // The error doesn't display the key itself for security reasons.  
    ErrNoSuchKeyFound = errors.New("The key was not found")  
    // ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is  
    // being removed  
    ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")  
)  
  
func resourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
  
        SchemaVersion: 1,  
  
        Create: resourceVSphereLicenseCreate,  
        Read:  resourceVSphereLicenseRead,  
        Update: resourceVSphereLicenseUpdate,  
        Delete: resourceVSphereLicenseDelete,  
  
        Schema: map[string]*schema.Schema{
```

```

    "license_key": {
      Type: schema.TypeString,
      Required: true,
      ForceNew:
true,
    },
    "labels": {
      Type: schema.TypeMap,
      Optional: true,
      Elem: &schema.Schema{Type: schema.TypeString},
    },

// computed properties returned by the API
    "edition_key": {
      Type: schema.TypeString,
      Computed: true,
    },
    "name": {
      Type: schema.TypeString,
      Computed: true,
    },
    "total": {
      Type: schema.TypeInt,
      Computed: true,
    },
    "used": {
      Type: schema.TypeInt,
      Computed: true,
    },
  },
}
}

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{ }) error {
  log.Println("[INFO] Running the create method")

  client := meta.(*Client).vimClient
  manager := license.NewManager(client.Client)

  key := d.Get("license_key").(string)

  log.Println(" [INFO] Reading the key from the resource data")
  var labelMap map[string]interface{ }
  if labels, ok := d.GetOk("labels"); ok {
    labelMap = labels.(map[string]interface{ })
  }

  var info types.LicenseManagerLicenseInfo

```

```

var err error
switch
t := client.ServiceContent.About.ApiType; t {
case "HostAgent":
// Labels are not allowed in ESXi
if len(labelMap) != 0 {
return errors.New("Labels are not allowed in ESXi")
}
info, err = manager.Update(context.TODO(), key, nil)

case "VirtualCenter":
info, err = manager.Add(context.TODO(), key, nil)
if err != nil {
return err
}
err = updateLabels(manager, key, labelMap)

default:
return fmt.Errorf("unsupported ApiType: %s", t)
}

if err != nil {
return err
}

if err = DecodeError(info); err != nil {
return err
}

// This can be used in the read method to set the computed parameters
d.SetId(info.LicenseKey)

return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the read method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager);
info != nil {
log.Println("[INFO] Setting the values")
_ = d.Set("edition_key", info.EditionKey)
_ = d.Set("total", info.Total)
_ = d.Set("used", info.Used)
_ = d.Set("name", info.Name)
}
}

```

```

    _ = d.Set("labels", keyValuesToMap(info.Labels))
  } else {
    return ErrNoSuchKeyFound
  }

  return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{}) error {
  log.Println("[INFO] Running the update method")

  client := meta.(*Client).vimClient
  manager := license.NewManager(client.Client)

  if key, ok := d.GetOk("license_key"); ok {
    licenseKey := key.(string)
    if !isKeyPresent(licenseKey, manager) {
      return ErrNoSuchKeyFound
    }

    if d.HasChange("labels") {
      labelMap := d.Get("labels").(map[string]interface{})

      err := updateLabels(manager, licenseKey, labelMap)
      if err != nil {
        return err
      }
    }
  }

  return resourceVSphereLicenseRead(d, meta)
}

func updateLabels(manager
*license.Manager, licenseKey string, labelMap map[string]interface{}) error {
  for key, value := range labelMap {
    err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
    if err != nil {
      return err
    }
  }
  return nil
}

func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{}) error {
  log.Println("[INFO] Running the delete method")

```

```

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
    err := manager.Remove(context.TODO(), key)

    if err != nil {
        return err
    }

    // if the key is still present
    if isKeyPresent(key, manager) {
        return ErrKeyCannotBeDeleted
    }
    d.SetId("")
    return nil
}
return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
    // Use of decode is not returning labels so using list instead
    // Issue - https://github.com/vmware/govmomi/issues/797
    infoList,
    _ := manager.List(context.TODO())
    for _, info := range infoList {
        if info.LicenseKey == key {
            return &info
        }
    }
    return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
    infoList, _ := manager.List(context.TODO())

    for _, info := range infoList {
        if info.LicenseKey == key {
            return true
        }
    }

    return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {

```

```

req := types.UpdateLicenseLabel{
    This:    m.Reference(),
    LicenseKey: licenseKey,
    LabelKey: key,
    LabelValue: val,
}

_, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
// to the server
func DecodeError(info types.LicenseManagerLicenseInfo)
error {
for _, property := range info.Properties {
if property.Key == "diagnostic" {
return errors.New(property.Value.(string))
}
}
}

return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
KVMap := make(map[string]interface{})
for _, keyValue := range keyValues {
KVMap[keyValue.Key] = keyValue.Value
}
return KVMap
}

```

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```
package grant
```

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// GrantRequestBuilder provides operations to call the grant method.  
type GrantRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// GrantRequestBuilderPostRequestConfiguration configuration for the request such as headers, query parameters,  
and middleware options.  
type GrantRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewGrantRequestBuilderInternal instantiates a new GrantRequestBuilder and sets the default values.  
func NewGrantRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*GrantRequestBuild  
er) {  
    m := &GrantRequestBuilder{  
    }  
    m.urlTemplate = "{+baseUrl}/shares/{sharedDriveItem%2DId}/permission/microsoft.graph.grant";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters = urlTplParams;  
    m.requestAdapter = requestAdapter;  
    return m  
}
```

```

// NewGrantRequestBuilder instantiates a new GrantRequestBuilder and sets the default values.
func NewGrantRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*GrantRequestBuild
er) {
    urlParams
:= make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewGrantRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation grant users access to a link represented by a [permission][].
func (m *GrantRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
GrantPostRequestBodyable, requestConfiguration
*GrantRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b74374
80d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {

        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post grant users access to a link represented by a [permission][].
func (m *GrantRequestBuilder) Post(ctx context.Context, body GrantPostRequestBodyable, requestConfiguration
*GrantRequestBuilderPostRequestConfiguration)(GrantResponseable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo, CreateGrantResponseFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
}

```

```
if res == nil {
    return nil, nil
}
return res.(GrantResponseable), nil
}
Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza
```

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```
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```

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package models

```
import (  
    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseAssignmentState  
type LicenseAssignmentState struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{}  
    // The assignedByGroup property  
    assignedByGroup *string  
    // The disabledPlans property  
    disabledPlans []string  
    // The error property
```

```

error *string
// The lastUpdatedDateTime property
lastUpdatedDateTime *i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time
// The OdataType property
odatatype *string
// The skuId property
skuId *string
// The
state property
state *string
}
// NewLicenseAssignmentState instantiates a new licenseAssignmentState and sets the default values.
func NewLicenseAssignmentState>(*LicenseAssignmentState) {
    m := &LicenseAssignmentState{
    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateLicenseAssignmentStateFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseAssignmentStateFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseAssignmentState(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseAssignmentState) GetAdditionalData()(map[string]interface{} ) {
    return m.additionalData
}
//
// GetAssignedByGroup gets the assignedByGroup property value. The assignedByGroup property
func (m *LicenseAssignmentState) GetAssignedByGroup>(*string) {
    return m.assignedByGroup
}
// GetDisabledPlans gets the disabledPlans property value. The disabledPlans property
func (m *LicenseAssignmentState) GetDisabledPlans()([]string) {
    return m.disabledPlans
}
// GetError gets the error property value. The error property
func (m *LicenseAssignmentState) GetError>(*string) {
    return m.error
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseAssignmentState)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=

```

```

make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["assignedByGroup"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetAssignedByGrou
p)
    res["disabledPlans"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetDisabledPlans)
    res["error"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetError)
    res["lastUpdatedDateTime"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetTimeValue(m.SetLastUpdatedDate
Time)
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["skuId"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)
    res["state"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetState)
    return res
}
// GetLastUpdatedDateTime gets the lastUpdatedDateTime property value. The lastUpdatedDateTime property
func (m *LicenseAssignmentState) GetLastUpdatedDateTime()(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)
{
    return m.lastUpdatedDateTime
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseAssignmentState) GetOdataType>(*string) {
    return m.odataType
}
// GetSkuId gets the skuId property value. The skuId property
func (m *LicenseAssignmentState) GetSkuId>(*string) {
    return m.skuId
}
// GetState gets the state property value. The state property
func (m *LicenseAssignmentState) GetState>(*string) {
    return m.state
}
// Serialize serializes information the current object
func (m *LicenseAssignmentState) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteStringValue("assignedByGroup", m.GetAssignedByGroup())
        if err != nil {
            return err
        }
    }
}

```

```

if m.GetDisabledPlans() != nil {
    err := writer.WriteCollectionOfStringValues("disabledPlans", m.GetDisabledPlans())
    if err != nil {
        return
    }
}
err := writer.WriteStringValue("error", m.GetError())
if err != nil {
    return err
}
err := writer.WriteTimeValue("lastUpdatedDateTime", m.GetLastUpdatedDateTime())
if err != nil {
    return err
}
err := writer.WriteStringValue("@odata.type", m.GetOdataType())
if err != nil {
    return err
}
err := writer.WriteStringValue("skuId", m.GetSkuId())
if err != nil {
    return err
}
err := writer.WriteStringValue("state", m.GetState())
if err != nil {
    return err
}
err := writer.WriteAdditionalData(m.GetAdditionalData())
if err != nil {
    return err
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when

```

deserializing. Can be used for serialization as well.

```
func (m *LicenseAssignmentState) SetAdditionalData(value map[string]interface{})() {
    m.additionalData = value
}
// SetAssignedByGroup sets the assignedByGroup property value. The assignedByGroup property
func (m *LicenseAssignmentState) SetAssignedByGroup(value *string)() {
    m.assignedByGroup = value
}
// SetDisabledPlans sets the disabledPlans property value. The disabledPlans property
func (m *LicenseAssignmentState) SetDisabledPlans(value []string)() {
    m.disabledPlans = value
}
// SetError sets the error property value. The error property
func (m *LicenseAssignmentState) SetError(value *string)() {
    m.error = value
}
// SetLastUpdatedDateTime sets the lastUpdatedDateTime property value. The lastUpdatedDateTime property
func (m *LicenseAssignmentState) SetLastUpdatedDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)() {
    m.lastUpdatedDateTime = value
}
// SetOdataType sets the
@odata.type property value. The OdataType property
func (m *LicenseAssignmentState) SetOdataType(value *string)() {
    m.odatatype = value
}
// SetSkuId sets the skuId property value. The skuId property
func (m *LicenseAssignmentState) SetSkuId(value *string)() {
    m.skuId = value
}
// SetState sets the state property value. The state property
func (m *LicenseAssignmentState) SetState(value *string)() {
    m.state = value
}
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```

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package lambda

```

import (
    "context"
    "encoding/json"
    "fmt"
    "log"
    "regexp"
    "strings"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/lambda"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/create"
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"
    "github.com/hashicorp/terraform-provider-aws/internal/verify"
)

var functionRegexp = `^(arn:[\w-]+:lambda:)?([a-z]{2}-(?:[a-z]{1,2}){1,2}\d{1}):?(d{12}):?(function:)?([a-zA-Z0-9-
_]+)(:(\${LATEST}|[a-zA-Z0-9-_]+))?$`

// @SDKResource("aws_lambda_permission")
func ResourcePermission()
*schema.Resource {
return &schema.Resource{
    CreateWithoutTimeout: resourcePermissionCreate,
    ReadWithoutTimeout:  resourcePermissionRead,
    DeleteWithoutTimeout: resourcePermissionDelete,

    Importer: &schema.ResourceImporter{
        StateContext: resourcePermissionImport,
    },

    Schema: map[string]*schema.Schema{
        "action": {
            Type:     schema.TypeString,
            Required: true,
            ForceNew: true,
            ValidateFunc: validPermissionAction(),
        },
        "event_source_token": {
            Type:     schema.TypeString,
            Optional: true,
            ForceNew: true,

```

```

ValidateFunc: validPermissionEventSourceToken(),
},
"function_name": {
Type:    schema.TypeString,
Required: true,
ForceNew: true,
ValidateFunc: validFunctionName(),
},
"function_url_auth_type": {
Type:    schema.TypeString,
Optional: true,
ForceNew: true,
ValidateFunc: validation.StringInSlice(lambda.FunctionUrlAuthType_Values(),
false),
},
},
"principal": {
Type:    schema.TypeString,
Required: true,
ForceNew: true,
},
},
"principal_org_id": {
Type:    schema.TypeString,
Optional: true,
ForceNew: true,
},
},
"qualifier": {
Type:    schema.TypeString,
Optional: true,
ForceNew: true,
ValidateFunc: validQualifier(),
},
},
"source_account": {
Type:    schema.TypeString,
Optional: true,
ForceNew: true,
ValidateFunc: verify.ValidAccountID,
},
},
"source_arn": {
Type:    schema.TypeString,
Optional: true,
ForceNew: true,
ValidateFunc: verify.ValidARN,
},
},
"statement_id": {
Type:    schema.TypeString,
Optional: true,
Computed: true,
ForceNew: true,

```

```

    ValidateFunc: validPolicyStatementID(),
    ConflictsWith: []string{"statement_id_prefix"},
},
"statement_id_prefix": {
    Type:      schema.TypeString,
    Optional:  true,
    Computed:  true,
    ForceNew:  true,
    ValidateFunc: validPolicyStatementID(),
    ConflictsWith: []string{"statement_id"},
},
},
}
}

func resourcePermissionCreate(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).LambdaConn(ctx)

    functionName := d.Get("function_name").(string)
    statementID := create.Name(d.Get("statement_id").(string), d.Get("statement_id_prefix").(string))

    // There is a bug in the API (reported and acknowledged by AWS)
    // which causes some permissions to be ignored when API calls are sent in parallel
    // We work around this bug via mutex
    conns.GlobalMutexKV.Lock(functionName)
    defer conns.GlobalMutexKV.Unlock(functionName)

    input := &lambda.AddPermissionInput{
        Action:      aws.String(d.Get("action").(string)),
        FunctionName: aws.String(functionName),
        Principal:   aws.String(d.Get("principal").(string)),
        StatementId: aws.String(statementID),
    }

    if
    v, ok := d.GetOk("event_source_token"); ok {
        input.EventSourceToken = aws.String(v.(string))
    }

    if v, ok := d.GetOk("function_url_auth_type"); ok {
        input.FunctionUrlAuthType = aws.String(v.(string))
    }

    if v, ok := d.GetOk("principal_org_id"); ok {
        input.PrincipalOrgID = aws.String(v.(string))
    }
}

```

```

if v, ok := d.GetOk("qualifier"); ok {
    input.Qualifier = aws.String(v.(string))
}

if v, ok := d.GetOk("source_account"); ok {
    input.SourceAccount = aws.String(v.(string))
}

if v, ok := d.GetOk("source_arn"); ok {
    input.SourceArn = aws.String(v.(string))
}

log.Printf("[DEBUG] Adding Lambda Permission: %s", input)
// Retry for IAM and Lambda eventual consistency.
_, err := tfresource.RetryWhenAWSErrCodeEquals(ctx, propagationTimeout,
    func() (interface{}, error) {
        return conn.AddPermissionWithContext(ctx, input)
    },
    lambda.ErrCodeResourceConflictException, lambda.ErrCodeResourceNotFoundException)

if err != nil {
    return sdkdiag.AppendErrorf(diags, "adding Lambda
Permission (%s/%s): %s", functionName, statementID, err)
}

d.SetId(statementID)

return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).LambdaConn(ctx)

    functionName := d.Get("function_name").(string)
    outputRaw, err := tfresource.RetryWhenNewResourceNotFound(ctx, propagationTimeout,
        func() (interface{}, error) {
            return FindPolicyStatementByTwoPartKey(ctx, conn, functionName, d.Id(), d.Get("qualifier").(string))
        }, d.IsNewResource())

    if !d.IsNewResource() && tfresource.NotFound(err) {
        log.Printf("[WARN] Lambda Permission (%s/%s) not found, removing from state", functionName, d.Id())
        d.SetId("")
        return diags
    }

    if err != nil {

```

```

return sdkdiag.AppendErrorf(diags, "reading Lambda Permission (%s/%s): %s", functionName, d.Id(), err)
}

statement := outputRaw.(*PolicyStatement)
qualifier,
_ := GetQualifierFromAliasOrVersionARN(statement.Resource)

d.Set("qualifier", qualifier)

// Save Lambda function name in the same format
if strings.HasPrefix(functionName, "arn:"+meta.(*conns.AWSClient).Partition+":lambda:") {
// Strip qualifier off
trimmedArn := strings.TrimSuffix(statement.Resource, ":"+qualifier)
d.Set("function_arn", trimmedArn)
} else {
functionName, err := GetFunctionNameFromARN(statement.Resource)

if err != nil {
return sdkdiag.AppendErrorf(diags, "reading Lambda Permission (%s/%s): %s", functionName, d.Id(), err)
}

d.Set("function_arn", functionName)
}

d.Set("action", statement.Action)
// Check if the principal is a cross-account IAM role
if v, ok := statement.Principal.(map[string]interface{}); ok {
if _, ok := v["AWS"]; ok {
d.Set("principal", v["AWS"])
} else {
d.Set("principal", v["Service"])
}
} else if v, ok := statement.Principal.(string); ok {
d.Set("principal", v)
}

if stringEquals, ok := statement.Condition["StringEquals"];
ok {
d.Set("source_account", stringEquals["AWS:SourceAccount"])
d.Set("event_source_token", stringEquals["lambda:EventSourceToken"])
d.Set("principal_org_id", stringEquals["aws:PrincipalOrgID"])
d.Set("function_url_auth_type", stringEquals["lambda:FunctionUrlAuthType"])
}

if arnLike, ok := statement.Condition["ArnLike"]; ok {
d.Set("source_arn", arnLike["AWS:SourceArn"])
}

```

```

d.Set("statement_id", statement.Sid)
d.Set("statement_id_prefix", create.NamePrefixFromName(statement.Sid))

return diags
}

func resourcePermissionDelete(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).LambdaConn(ctx)

    functionName := d.Get("function_name").(string)

    // There is a bug in the API (reported and acknowledged by AWS)
    // which causes some permissions to be ignored when API calls are sent in parallel
    // We work around this bug via mutex
    conns.GlobalMutexKV.Lock(functionName)
    defer
    conns.GlobalMutexKV.Unlock(functionName)

    input := &lambda.RemovePermissionInput{
        FunctionName: aws.String(functionName),
        StatementId:  aws.String(d.Id()),
    }

    if v, ok := d.GetOk("qualifier"); ok {
        input.Qualifier = aws.String(v.(string))
    }

    log.Printf("[DEBUG] Removing Lambda Permission: %s", input)
    _, err := conn.RemovePermissionWithContext(ctx, input)

    if tfawserr.ErrCodeEquals(err, lambda.ErrCodeResourceNotFoundException) {
        return diags
    }

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "removing Lambda Permission (%s/%s): %s", functionName, d.Id(), err)
    }

    _, err = tfresource.RetryUntilNotFound(ctx, propagationTimeout, func() (interface{}, error) {
        return FindPolicyStatementByTwoPartKey(ctx, conn, functionName, d.Id(), d.Get("qualifier").(string))
    })

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "waiting for Lambda Permission (%s/%s) delete: %s", functionName, d.Id(),
err)
    }
}

```

```

return diags
}

func findPolicy(ctx context.Context,
conn *lambda.Lambda, input *lambda.GetPolicyInput) (*lambda.GetPolicyOutput, error) {
output, err := conn.GetPolicyWithContext(ctx, input)

if tfawserr.ErrCodeEquals(err, lambda.ErrCodeResourceNotFoundException) {
return nil, &retry.NotFoundError{
LastError: err,
LastRequest: input,
}
}

if err != nil {
return nil, err
}

if output == nil {
return nil, tfresource.NewEmptyResultError(input)
}

return output, nil
}

func FindPolicyStatementByTwoPartKey(ctx context.Context, conn *lambda.Lambda, functionName, statementID,
qualifier string) (*PolicyStatement, error) {
input := &lambda.GetPolicyInput{
FunctionName: aws.String(functionName),
}

if qualifier != "" {
input.Qualifier = aws.String(qualifier)
}

output, err := findPolicy(ctx, conn, input)

if err != nil {
return nil, err
}

policy := Policy{}
err = json.Unmarshal([]byte(aws.StringValue(output.Policy)), &policy)

if err != nil {
return nil, err
}

```

```

for _, v := range policy.Statement
{
if v.Sid == statementID {
return &v, nil
}
}

return nil, &retry.NotFoundError{
LastRequest: statementID,
LastResponse: policy,
Message:    fmt.Sprintf("Failed to find statement %q in Lambda policy:\n%s", statementID, policy.Statement),
}
}

```

```

func FindPolicyStatementByID(policy *Policy, id string) (*PolicyStatement, error) {
log.Printf("[DEBUG] Received %d statements in Lambda policy: %s", len(policy.Statement), policy.Statement)
for _, statement := range policy.Statement {
if statement.Sid == id {
return &statement, nil
}
}
}

```

```

return nil, &retry.NotFoundError{
LastRequest: id,
LastResponse: policy,
Message:    fmt.Sprintf("Failed to find statement %q in Lambda policy:\n%s", id, policy.Statement),
}
}

```

```

func GetQualifierFromAliasOrVersionARN(arn string) (string, error) {
matches := regexp.MustCompile(functionRegexp).FindStringSubmatch(arn)
if len(matches) < 8 || matches[7] == "" {
return "", fmt.Errorf("Invalid ARN or otherwise unable to get
qualifier from ARN (%q)",
arn)
}
}

```

```

return matches[7], nil
}

```

```

func GetFunctionNameFromARN(arn string) (string, error) {
matches := regexp.MustCompile(functionRegexp).FindStringSubmatch(arn)
if len(matches) < 6 || matches[5] == "" {
return "", fmt.Errorf("Invalid ARN or otherwise unable to get qualifier from ARN (%q)",
arn)
}
}
return matches[5], nil
}

```

```

func resourcePermissionImport(ctx context.Context, d *schema.ResourceData, meta interface{})
([]*schema.ResourceData, error) {
    idParts := strings.Split(d.Id(), "/")
    if len(idParts) != 2 || idParts[0] == "" || idParts[1] == "" {
        return nil, fmt.Errorf("Unexpected format of ID (%q), expected FUNCTION_NAME/STATEMENT_ID or
FUNCTION_NAME:QUALIFIER/STATEMENT_ID", d.Id())
    }

    functionName := idParts[0]

    input := &lambda.GetFunctionInput{FunctionName: &functionName}

    var qualifier string
    fnParts := strings.Split(functionName, ":")
    if len(fnParts) == 2 {
        functionName = fnParts[0]
        qualifier = fnParts[1]
        input.Qualifier = &qualifier
    }
    statementId
:= idParts[1]
    log.Printf("[DEBUG] Importing Lambda Permission %s for function name %s", statementId, functionName)

    conn := meta.(*conns.AWSCClient).LambdaConn(ctx)
    getFunctionOutput, err := conn.GetFunctionWithContext(ctx, input)
    if err != nil {
        return nil, err
    }

    d.Set("function_name", getFunctionOutput.Configuration.FunctionArn)
    d.Set("statement_id", statementId)
    if qualifier != "" {
        d.Set("qualifier", qualifier)
    }
    d.SetId(statementId)
    return []*schema.ResourceData{d}, nil
}

type Policy struct {
    Version string
    Statement []PolicyStatement
    Id string
}

type PolicyStatement struct {
    Condition map[string]map[string]string
    Action string
}

```

```
Resource string
Effect string
Principal interface{ }
Sid string
}
```

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// AssignedLicenseCollectionResponseable  
type AssignedLicenseCollectionResponseable interface {  
    BaseCollectionPaginationCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue([]AssignedLicenseable)  
    SetValue(value []AssignedLicenseable())  
}
```

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package models

```
import (
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
    abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
    abstractions-go/serialization"
)

// LicenseUnitsDetail
type LicenseUnitsDetail struct {
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for
    serialization as well.
    additionalData map[string]interface{}
    // The number of units that are enabled for the active subscription of the service SKU.
    enabled *int32
    // The OdataType property
    odataType *string
    // The number of units that are suspended because the subscription of the service SKU has been cancelled. The
    units cannot be assigned but can still be reactivated before they are deleted.
    suspended *int32
    // The number of units that are in warning status. When the subscription of the service SKU has expired, the
    customer
    has a grace period to renew their subscription before it is cancelled (moved to a suspended state).
    warning *int32
}
// NewLicenseUnitsDetail instantiates a new licenseUnitsDetail and sets the default values.
func NewLicenseUnitsDetail(*LicenseUnitsDetail) {
    m := &LicenseUnitsDetail{
    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateLicenseUnitsDetailFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseUnitsDetailFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseUnitsDetail(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseUnitsDetail) GetAdditionalData()(map[string]interface{} )
```

```

{
    return m.additionalData
}
// GetEnabled gets the enabled property value. The number of units that are enabled for the active subscription of the
service SKU.
func (m *LicenseUnitsDetail) GetEnabled()(*int32) {
    return m.enabled
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseUnitsDetail)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["enabled"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetEnabled)
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["suspended"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetSuspended)
    res["warning"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetWarning)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseUnitsDetail) GetOdataType()(*string) {
    return m.odataType
}
// GetSuspended gets the suspended property value. The number of units that are suspended because the subscription
of the service SKU has been cancelled. The units cannot be assigned but can still be reactivated before they are
deleted.
func (m *LicenseUnitsDetail) GetSuspended()(*int32) {
    return m.suspended
}
// GetWarning gets the warning property value. The number of units that are in warning status. When the
subscription of the service SKU has expired, the customer has a grace period to renew their subscription before it is
cancelled (moved to a suspended state).
func (m *LicenseUnitsDetail) GetWarning()(*int32) {
    return m.warning
}
// Serialize serializes information the current object
func (m *LicenseUnitsDetail)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteInt32Value("enabled", m.GetEnabled())
        if err != nil {

```

```

        return err
    }
}
{
    err := writer.WriteStringValue("@odata.type", m.GetOdataType())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteInt32Value("suspended", m.GetSuspended())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteInt32Value("warning", m.GetWarning())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func
(m *LicenseUnitsDetail) SetAdditionalData(value map[string]interface{})(o) {
    m.additionalData = value
}
// SetEnabled sets the enabled property value. The number of units that are enabled for the active subscription of the
service SKU.
func (m *LicenseUnitsDetail) SetEnabled(value *int32)(o) {
    m.enabled = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *LicenseUnitsDetail) SetOdataType(value *string)(o) {
    m.odataType = value
}
// SetSuspended sets the suspended property value. The number of units that are suspended because the subscription
of the service SKU has been cancelled. The units cannot be assigned but can still be reactivated before they are
deleted.
func (m *LicenseUnitsDetail) SetSuspended(value *int32)(o) {

```

```
m.suspended = value
}
// SetWarning sets the warning property value. The number of units that are in warning status. When the
subscription of the service SKU has expired, the customer has a grace period to
renew their subscription before it is cancelled (moved to a suspended state).
func (m *LicenseUnitsDetail) SetWarning(value *int32)() {
    m.warning = value
}
```

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=====

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source: <https://github.com/IBM-Cloud/terraform-provider-ibm>

issues: <https://github.ibm.com/blueprint/security-project-management/issues>

objectCodeOnly: false

additionalDownloads:

include:

- go modules

exclude:

- name: glide

documentation: Package manager not invoked in build nor runtime use

- name: nodejs

documentation: Package manager not invoked in build nor runtime use

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version: v1.1.0
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version: v1.0.0
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- name: github.com/apparentlymart/go-textseg/v13
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```

*/

package license

import (
    "context"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)
([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:    m.Reference(),
        EntityId:
    id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:    m.Reference(),
        EntityId: id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:    m.Reference(),
        Entity:   id,
    }

```

```
LicenseKey:    key,  
EntityDisplayName: name,  
}
```

```
res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)  
if err != nil {  
    return nil, err  
}  
  
return &res.Returnval, nil  
}
```

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match.go, match_test.go:

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Data model artifacts for Prometheus.

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package assignlicense

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)
```

```

// AssignLicenseRequestBuilder provides operations to call the assignLicense method.
type AssignLicenseRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and
middleware options.
type AssignLicenseRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default
values.
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    m := &AssignLicenseRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/groups/{group%2Did}/microsoft.graph.assignLicense";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder
and sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation add or remove licenses on the group. Licenses assigned to the group will be
assigned to all users in the group. To learn more about group-based licensing, see What is group-based licensing in
Azure Active Directory. To get the subscriptions available in the directory, perform a GET subscribedSkus request.
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration

```

```

*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post add or remove licenses on the group. Licenses assigned to the group will be assigned to all users in the group.
// To learn more about group-based licensing, see What is group-based licensing in Azure Active Directory. To get the
// subscriptions available in the directory, perform a GET subscribedSkus request.
func (m *AssignLicenseRequestBuilder)
Post(ctx context.Context, body AssignLicensePostRequestBody, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Groupable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateGroupFromDiscriminatorValue
, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return
nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Groupable), nil
}

```

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Portions adapted from python-unidiff:

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package events

```

import (
    "context"
    "encoding/json"
    "fmt"
    "log"
    "regexp"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/aws/arn"
    "github.com/aws/aws-sdk-go/aws/awsutil"
    "github.com/aws/aws-sdk-go/service/eventbridge"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"
)

// @SDKResource("aws_cloudwatch_event_permission")
func ResourcePermission() *schema.Resource {
    return &schema.Resource{
        CreateWithoutTimeout: resourcePermissionCreate,
        ReadWithoutTimeout:  resourcePermissionRead,
        UpdateWithoutTimeout: resourcePermissionUpdate,
        DeleteWithoutTimeout:
        resourcePermissionDelete,
        Importer: &schema.ResourceImporter{
            StateContext: schema.ImportStatePassthroughContext,
        },

        Schema: map[string]*schema.Schema{
            "action": {
                Type:      schema.TypeString,
                Optional: true,
                Default:  "events:PutEvents",
                ValidateFunc: validatePermissionAction,
            },
            "condition": {
                Type:      schema.TypeList,
                Optional: true,
                MaxItems: 1,
                Elem: &schema.Resource{
                    Schema: map[string]*schema.Schema{
                        "key": {
                            Type:      schema.TypeString,

```

```

    Required: true,
    ValidateFunc: validation.StringInSlice([]string{"aws:PrincipalOrgID"}, false),
  },
  "type": {
    Type: schema.TypeString,
    Required: true,
    ValidateFunc: validation.StringInSlice([]string{"StringEquals"}, false),
  },
  "value": {
    Type: schema.TypeString,
    Required: true,
    ValidateFunc: validation.NoZeroValues,
  },
},
},
},
},
"event_bus_name":
{
  Type: schema.TypeString,
  Optional: true,
  ForceNew: true,
  ValidateFunc: validBusName,
  Default: DefaultEventBusName,
},
"principal": {
  Type: schema.TypeString,
  Required: true,
  ValidateFunc: validatePermissionPrincipal,
},
"statement_id": {
  Type: schema.TypeString,
  Required: true,
  ForceNew: true,
  ValidateFunc: validatePermissionStatementID,
},
},
}
}

```

```

func resourcePermissionCreate(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
  var diags diag.Diagnostics
  conn := meta.(*conns.AWSClient).EventsConn(ctx)

  eventBusName := d.Get("event_bus_name").(string)
  statementID := d.Get("statement_id").(string)

  input := eventbridge.PutPermissionInput{
    Action: aws.String(d.Get("action").(string)),

```

```

Condition: expandCondition(d.Get("condition").([]interface{})),
EventBusName: aws.String(eventBusName),
Principal:
    aws.String(d.Get("principal").(string)),
StatementId: aws.String(statementID),
}

log.Printf("[DEBUG] Creating EventBridge permission: %s", input)
_, err := conn.PutPermissionWithContext(ctx, &input)
if err != nil {
    return sdkdiag.AppendErrorf(diags, "Creating EventBridge permission failed: %s", err)
}

id := PermissionCreateResourceID(eventBusName, statementID)
d.SetId(id)

return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API_DescribeEventBus.html
func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).EventsConn(ctx)

    eventBusName, statementID, err := PermissionParseResourceID(d.Id())
    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading EventBridge permission (%s): %s", d.Id(), err)
    }
    input := eventbridge.DescribeEventBusInput{
        Name:
            aws.String(eventBusName),
    }
    var output *eventbridge.DescribeEventBusOutput
    var policyStatement *PermissionPolicyStatement

    // Especially with concurrent PutPermission calls there can be a slight delay
    err = retry.RetryContext(ctx, propagationTimeout, func() *retry.RetryError {
        log.Printf("[DEBUG] Reading EventBridge bus: %s", input)
        output, err = conn.DescribeEventBusWithContext(ctx, &input)
        if err != nil {
            return retry.NonRetryableError(fmt.Errorf("reading EventBridge permission (%s) failed: %w", d.Id(), err))
        }
    })

    policyStatement, err = getPolicyStatement(output, statementID)
    if err != nil {
        return retry.RetryableError(err)
    }
    return nil
}

```

```

}))

if tfresource.TimedOut(err) {
    output, err = conn.DescribeEventBusWithContext(ctx, &input)
    if output != nil {
        policyStatement, err = getPolicyStatement(output, statementID)
    }
}

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] EventBridge permission (%s) not found, removing from state",
d.Id())
    d.SetId("")
    return diags
}
if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading EventBridge permission (%s): %s", d.Id(), err)
}

d.Set("action", policyStatement.Action)
busName := aws.StringValue(output.Name)
if busName == "" {
    busName = DefaultEventBusName
}
d.Set("event_bus_name", busName)

if err := d.Set("condition", flattenPermissionPolicyStatementCondition(policyStatement.Condition)); err != nil {
    return sdkdiag.AppendErrorf(diags, "setting condition: %s", err)
}

switch principal := policyStatement.Principal.(type) {
case string:
    d.Set("principal", principal)
case map[string]interface{}:
    if v, ok := principal["AWS"].(string); ok {
        if arn.IsARN(v) {
            principalARN, err := arn.Parse(v)

            if err != nil {
                return sdkdiag.AppendErrorf(diags, "parsing EventBridge Permission (%s) principal as ARN (%s): %s", d.Id(), v,
err)
            }

            d.Set("principal", principalARN.AccountID)
        } else {
            d.Set("principal", v)
        }
    }
}

```

```

}

d.Set("statement_id",
policyStatement.Sid)

return diags
}

func getPolicyStatement(output *eventbridge.DescribeEventBusOutput, statementID string)
(*PermissionPolicyStatement, error) {
var policyDoc PermissionPolicyDoc

if output == nil || output.Policy == nil {
return nil, &retry.NotFoundError{
Message:    fmt.Sprintf("EventBridge permission %q not found", statementID),
LastResponse: output,
}
}

err := json.Unmarshal([]byte(*output.Policy), &policyDoc)
if err != nil {
return nil, fmt.Errorf("reading EventBridge permission (%s): %w", statementID, err)
}

return FindPermissionPolicyStatementByID(&policyDoc, statementID)
}

func resourcePermissionUpdate(ctx context.Context, d *schema.ResourceData, meta interface{ }) diag.Diagnostics {
var diags diag.Diagnostics
conn := meta.(*conns.AWSClient).EventsConn(ctx)

eventBusName, statementID, err := PermissionParseResourceID(d.Id())
if err != nil {
return sdkdiag.AppendErrorf(diags, "updating EventBridge permission
(%s): %s", d.Id(), err)
}
input := eventbridge.PutPermissionInput{
Action:    aws.String(d.Get("action").(string)),
Condition: expandCondition(d.Get("condition").([]interface{ })),
EventBusName: aws.String(eventBusName),
Principal: aws.String(d.Get("principal").(string)),
StatementId: aws.String(statementID),
}

_, err = conn.PutPermissionWithContext(ctx, &input)
if err != nil {
return sdkdiag.AppendErrorf(diags, "updating EventBridge permission (%s): %s", d.Id(), err)
}
}

```

```

return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

func resourcePermissionDelete(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
var diags diag.Diagnostics
conn := meta.(*conns.AWSClient).EventsConn(ctx)

eventBusName, statementID, err := PermissionParseResourceID(d.Id())
if err != nil {
return sdkdiag.AppendErrorf(diags, "deleting EventBridge permission (%s): %s", d.Id(), err)
}
input := eventbridge.RemovePermissionInput{
EventBusName:
aws.String(eventBusName),
StatementId: aws.String(statementID),
}

log.Printf("[DEBUG] Delete EventBridge permission: %s", input)
_, err = conn.RemovePermissionWithContext(ctx, &input)
if tfawserr.ErrCodeEquals(err, eventbridge.ErrCodeResourceNotFoundException) {
return diags
}
if err != nil {
return sdkdiag.AppendErrorf(diags, "deleting EventBridge permission (%s): %s", d.Id(), err)
}
return diags
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_Reque
stParameters
func validatePermissionAction(v interface{ }, k string) (ws []string, es []error) {
value := v.(string)
if (len(value) < 1) || (len(value) > 64) {
es = append(es, fmt.Errorf("%q must be between 1 and 64 characters", k))
}

if !regexp.MustCompile(`^events:[a-zA-Z]+$`).MatchString(value) {
es = append(es, fmt.Errorf("%q must be: events: followed by one or more alphabetic characters", k))
}
return
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_Reque
stParameters
func

```

```

validatePermissionPrincipal(v interface{ }, k string) (ws []string, es []error) {
    value := v.(string)
    if !regexp.MustCompile(`^\d{12}|\*$`).MatchString(value) {
        es = append(es, fmt.Errorf("%q must be * or a 12 digit AWS account ID", k))
    }
    return
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_RequestParameters
func validatePermissionStatementID(v interface{ }, k string) (ws []string, es []error) {
    value := v.(string)
    if (len(value) < 1) || (len(value) > 64) {
        es = append(es, fmt.Errorf("%q must be between 1 and 64 characters", k))
    }

    if !regexp.MustCompile(`^[a-zA-Z0-9-_]+$`).MatchString(value) {
        es = append(es, fmt.Errorf("%q must be one or more alphanumeric, hyphen, or underscore characters", k))
    }
    return
}

// PermissionPolicyDoc represents the Policy attribute of DescribeEventBus
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type
PermissionPolicyDoc struct {
    Version string
    ID      string          `json:"Id,omitempty"`
    Statements []PermissionPolicyStatement `json:"Statement"`
}

// String returns the string representation
func (d PermissionPolicyDoc) String() string {
    return awsutil.Prettify(d)
}

// GoString returns the string representation
func (d PermissionPolicyDoc) GoString() string {
    return d.String()
}

// PermissionPolicyStatement represents the Statement attribute of PermissionPolicyDoc
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyStatement struct {
    Sid      string
    Effect   string
    Action   string

```

```

Condition *PermissionPolicyStatementCondition `json:"Condition,omitempty"`
Principal interface{} // "*" or {"AWS": "arn:aws:iam::111111111111:root"}
Resource string
}

// String returns the string representation
func (s PermissionPolicyStatement)
String() string {
return awsutil.Prettify(s)
}

// GoString returns the string representation
func (s PermissionPolicyStatement) GoString() string {
return s.String()
}

// PermissionPolicyStatementCondition represents the Condition attribute of PermissionPolicyStatement
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyStatementCondition struct {
Key string
Type string
Value string
}

// String returns the string representation
func (c PermissionPolicyStatementCondition) String() string {
return awsutil.Prettify(c)
}

// GoString returns the string representation
func (c PermissionPolicyStatementCondition) GoString() string {
return c.String()
}

func (c *PermissionPolicyStatementCondition) UnmarshalJSON(b []byte) error {
var out PermissionPolicyStatementCondition

// JSON representation: {"Condition":{"StringEquals":{"aws:PrincipalOrgID":"o-0123456789"}}}
var data map[string]map[string]string
if
err := json.Unmarshal(b, &data); err != nil {
return err
}

for typeKey, typeValue := range data {
for conditionKey, conditionValue := range typeValue {
out = PermissionPolicyStatementCondition{
Key: conditionKey,

```

```

    Type: typeKey,
    Value: conditionValue,
  }
}
}

*c = out
return nil
}

func FindPermissionPolicyStatementByID(policy *PermissionPolicyDoc, id string) (
*PermissionPolicyStatement, error) {
log.Printf("[DEBUG] Finding statement (%s) in EventBridge permission policy: %s", id, policy)
for _, statement := range policy.Statements {
if statement.Sid == id {
return &statement, nil
}
}

return nil, &retry.NotFoundError{
  LastRequest: id,
  LastResponse: policy,
  Message:    fmt.Sprintf("Failed to find statement (%s) in EventBridge permission policy: %s", id, policy),
}
}

func expandCondition(l []interface{}) *eventbridge.Condition {
if len(l) == 0 || l[0] == nil {
return nil
}

m := l[0].(map[string]interface{})

condition
:= &eventbridge.Condition{
  Key:    aws.String(m["key"].(string)),
  Type:   aws.String(m["type"].(string)),
  Value:  aws.String(m["value"].(string)),
}

return condition
}

func flattenPermissionPolicyStatementCondition(c *PermissionPolicyStatementCondition) []interface{} {
if c == nil {
return []interface{}{}
}
}

```

```
m := map[string]interface{}{
    "key": c.Key,
    "type": c.Type,
    "value": c.Value,
}
```

```
return []interface{}{m}
}
```

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//  
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```

```

// License is a nested struct in market response
type License struct {
    LicenseStatus string `json:"LicenseStatus" xml:"LicenseStatus"`
    LicenseCode string `json:"LicenseCode" xml:"LicenseCode"`
    InstanceId string `json:"InstanceId" xml:"InstanceId"`
    CreateTime string `json:"CreateTime"
xml:"CreateTime"`
    ExpiredTime string `json:"ExpiredTime" xml:"ExpiredTime"`
    ActivateTime string `json:"ActivateTime" xml:"ActivateTime"`
    ProductSkuId string `json:"ProductSkuId" xml:"ProductSkuId"`
    ProductCode string `json:"ProductCode" xml:"ProductCode"`
    ProductName string `json:"ProductName" xml:"ProductName"`
    SupplierName string `json:"SupplierName" xml:"SupplierName"`
    ExtendInfo ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"`
    ExtendArray ExtendArray `json:"ExtendArray" xml:"ExtendArray"`
}
/**
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 */

/**
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 */

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

```

```

// no documentation yet
EnabledFlag *bool `json:"enabledFlag,omitempty"
xmlrpc:"enabledFlag,omitempty"`

// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"`
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
Entity

// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

// no documentation yet
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}
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```

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```
import (  
  i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
  abstractions-go/serialization"  
  iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
  "github.com/microsoftgraph/msgraph-sdk-go/models"
```

)

```
// GrantResponseable
type GrantResponseable interface {
iadc81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.BaseCollectionPaginationCountRespo
nseable
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetValue()([]iadc81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable)
    SetValue(value []iadc81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable)()
}
```

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```
*/
```

```
package license
```

```
import (
```

```
    "context"
```

```
    "strconv"
```

```
    "strings"
```

```
    "github.com/vmware/govmomi/object"
```

```
    "github.com/vmware/govmomi/vim25"
```

```
    "github.com/vmware/govmomi/vim25/methods"
```

```
    "github.com/vmware/govmomi/vim25/mo"
```

```
    "github.com/vmware/govmomi/vim25/types"
```

```
)
```

```
type Manager struct {
```

```
    object.Common
```

```
}
```

```
func NewManager(c *vim25.Client) *Manager {
```

```
    m := Manager{
```

```
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
```

```
    }
```

```
    return
```

```
        &m
```

```
}
```

```
func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
```

```
    var r []types.KeyValue
```

```
    for k, v := range m {
```

```
        r = append(r, types.KeyValue{Key: k, Value: v})
```

```
    }
```

```
    return r
```

```
}
```

```
func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
```

```
(types.LicenseManagerLicenseInfo, error) {
```

```
    req := types.AddLicense{
```

```
        This:    m.Reference(),
```

```
        LicenseKey: key,
```

```
        Labels:  mapToKeyValueSlice(labels),
```

```

}

res, err := methods.AddLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{ }, err
}

return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:    m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:
            m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:    m.Reference(),
        LicenseKey: key,
        Labels:  mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }
}

```

```

return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
var mlm mo.LicenseManager

err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
if err != nil {
return nil, err
}

return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
var mlm mo.LicenseManager

err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
if err != nil
{
return nil, err
}

if mlm.LicenseAssignmentManager == nil {
return nil, object.ErrNotSupported
}

am := AssignmentManager{
object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil
}

type licenseFeature struct {
name string
level int
}

func parseLicenseFeature(feature string) *licenseFeature {
lf := new(licenseFeature)

f := strings.Split(feature, ":")

lf.name = f[0]

if len(f) > 1 {
var err error

```

```

    lf.level, err = strconv.Atoi(f[1])
    if err != nil {
        lf.name = feature
    }
}

return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)

        if !ok {
            continue
        }

        lf := parseLicenseFeature(kv.Key)

        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type
InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

```

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    "context"  
    "fmt"  
    "log"  
    "strings"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/acmpca"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
```

```

"github.com/hashicorp/terraform-plugin-sdk/v2/diag"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
"github.com/hashicorp/terraform-provider-aws/internal/conns"
"github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"
"github.com/hashicorp/terraform-provider-aws/internal/flex"
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"github.com/hashicorp/terraform-provider-aws/internal/verify"
)

// @SDKResource("aws_acmpca_permission")
func ResourcePermission() *schema.Resource {
return &schema.Resource{
CreateWithoutTimeout: resourcePermissionCreate,
ReadWithoutTimeout: resourcePermissionRead,
DeleteWithoutTimeout: resourcePermissionDelete,

Schema: map[string]*schema.Schema{
"actions":
{
Type: schema.TypeSet,
Required: true,
ForceNew: true,
Elem: &schema.Schema{
Type: schema.TypeString,
ValidateFunc: validation.StringInSlice(acmpca.ActionType_Values(), false),
},
},
"certificate_authority_arn": {
Type: schema.TypeString,
ForceNew: true,
Required: true,
ValidateFunc: verify.ValidARN,
},
"policy": {
Type: schema.TypeString,
Computed: true,
},
"principal": {
Type: schema.TypeString,
ForceNew: true,
Required: true,
ValidateFunc: validation.StringInSlice([]string{
"acm.amazonaws.com",
}, false),
},
"source_account": {
Type: schema.TypeString,

```

```

    ForceNew: true,
    Optional: true,
    Computed: true,
  },
},
}
}

func resourcePermissionCreate(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).ACMPCACConn(ctx)

    caARN
    := d.Get("certificate_authority_arn").(string)
    principal := d.Get("principal").(string)
    sourceAccount := d.Get("source_account").(string)
    id := PermissionCreateResourceID(caARN, principal, sourceAccount)
    input := &acmpca.CreatePermissionInput{
        Actions:          flex.ExpandStringSet(d.Get("actions").(*schema.Set)),
        CertificateAuthorityArn: aws.String(caARN),
        Principal:        aws.String(principal),
    }

    if sourceAccount != "" {
        input.SourceAccount = aws.String(sourceAccount)
    }

    log.Printf("[DEBUG] Creating ACM PCA Permission: %s", input)
    _, err := conn.CreatePermissionWithContext(ctx, input)

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "creating ACM PCA Permission (%s): %s", id, err)
    }

    d.SetId(id)

    return append(diags, resourcePermissionRead(ctx, d, meta)...)
}

func resourcePermissionRead(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSClient).ACMPCACConn(ctx)

    caARN,
    principal, sourceAccount, err := PermissionParseResourceID(d.Id())

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "reading ACM PCA Permission (%s): %s", d.Id(), err)
    }
}

```

```

}

permission, err := FindPermission(ctx, conn, caARN, principal, sourceAccount)

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] ACM PCA Permission (%s) not found, removing from state", d.Id())
    d.SetId("")
    return diags
}

if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading ACM PCA Permission (%s): %s", d.Id(), err)
}

d.Set("actions", aws.StringValueSlice(permission.Actions))
d.Set("certificate_authority_arn", permission.CertificateAuthorityArn)
d.Set("policy", permission.Policy)
d.Set("principal", permission.Principal)
d.Set("source_account", permission.SourceAccount)

return diags
}

func resourcePermissionDelete(ctx context.Context, d *schema.ResourceData, meta interface{}) diag.Diagnostics {
    var diags diag.Diagnostics
    conn := meta.(*conns.AWSCClient).ACMPCACConn(ctx)

    caARN,
    principal, sourceAccount, err := PermissionParseResourceID(d.Id())

    if err != nil {
        return sdkdiag.AppendErrorf(diags, "deleting ACM PCA Permission (%s): %s", d.Id(), err)
    }

    input := &acmpca.DeletePermissionInput{
        CertificateAuthorityArn: aws.String(caARN),
        Principal:               aws.String(principal),
    }

    if sourceAccount != "" {
        input.SourceAccount = aws.String(sourceAccount)
    }

    log.Printf("[DEBUG] Deleting ACM PCA Permission: %s", d.Id())
    _, err = conn.DeletePermissionWithContext(ctx, input)

    if tfawserr.ErrCodeEquals(err, acmpca.ErrCodeResourceNotFoundException) {
        return diags
    }
}

```

```

}

if err != nil {
    return sdkdiag.AppendErrorf(diags, "deleting ACM PCA Permission (%s): %s", d.Id(), err)
}

return diags
}

const permissionIDSeparator = ","

func PermissionCreateResourceID(caARN, principal, sourceAccount string) string {
    parts := []string{caARN, principal, sourceAccount}
    id := strings.Join(parts, permissionIDSeparator)

    return
    id
}

func PermissionParseResourceID(id string) (string, string, string, error) {
    parts := strings.Split(id, permissionIDSeparator)

    if len(parts) == 3 && parts[0] != "" && parts[1] != "" {
        return parts[0], parts[1], parts[2], nil
    }

    return "", "", "", fmt.Errorf("unexpected format for ID (%[1]s), expected
CertificateAuthorityARN%[2]sPrincipal%[2]sSourceAccount", id, permissionIDSeparator)
}

package models

import (
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// LicenseProcessingStateable
type LicenseProcessingStateable interface {
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetOdataType(*string)
    GetState(*string)
    SetOdataType(value *string)()
    SetState(value *string)()
}

```

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```
package models
```

```
import (  
    "errors"  
)
```

```
// Provides operations to manage the collection of agreement entities.
```

```
type MicrosoftStoreForBusinessLicenseType int
```

```
const (  
    OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE MicrosoftStoreForBusinessLicenseType = iota  
    ONLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE  
)
```

```
func (i MicrosoftStoreForBusinessLicenseType) String() string {  
    return []string{"offline", "online"}[i]  
}
```

```
func ParseMicrosoftStoreForBusinessLicenseType(v string) (interface{}, error) {
```

```
    result := OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE
```

```
    switch v {
```

```
        case "offline":
```

```
            result = OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE
```

```
        case "online":
```

```
            result = ONLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE
```

```
        default:
```

```
            return 0, errors.New("Unknown MicrosoftStoreForBusinessLicenseType value: " + v)
```

```
    }
```

```
    return &result, nil
```

```
}
```

```
func SerializeMicrosoftStoreForBusinessLicenseType(values []MicrosoftStoreForBusinessLicenseType) []string {
```

```
    result := make([]string, len(values))
    for i, v := range values {
        result[i] = v.String()
    }
    return result
}
```

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```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseAssignmentStateCollectionResponseable  
type LicenseAssignmentStateCollectionResponseable interface {  
    BaseCollectionPagingCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]LicenseAssignmentStateable)  
    SetValue(value []LicenseAssignmentStateable())  
}
```

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```
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    i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadc81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)
```

```
// GrantResponse provides operations to call the grant method.
```

```

type GrantResponse struct {
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.BaseCollectionPaginationCountRespo
nse
    // The value property
    value []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable
}
// NewGrantResponse instantiates a new grantResponse and sets the default values.
func NewGrantResponse>(*GrantResponse) {
    m := &GrantResponse{
        BaseCollectionPaginationCountResponse:
*iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.NewBaseCollectionPaginationCount
Response(),
    }
    return m
}
// CreateGrantResponseFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateGrantResponseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewGrantResponse(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *GrantResponse)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminatorValue ,
m.SetValue)
    return res
}
// GetValue gets the value property
value. The value property
func (m *GrantResponse)
GetValue()([]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable) {
    return m.value
}
// Serialize serializes information the current object
func (m *GrantResponse) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=

```

```
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
    err = writer.WriteCollectionOfObjectValues("value", cast)
    if err != nil {
        return err
    }
}
return nil
}
// SetValue sets the value property value. The value property
func (m *GrantResponse) SetValue(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable)()
{
    m.value = value
}
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```

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```
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abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// AssignedLicense  
type AssignedLicense struct {
```

```

// Stores additional data not described in the OpenAPI description found when deserializing. Can be used for
serialization as well.
additionalData map[string]interface{ }
// A collection of the unique identifiers for plans that have been disabled.
disabledPlans []string
// The OdataType property
odataType *string
// The unique identifier for the SKU.
skuId *string
}
// NewAssignedLicense instantiates a new assignedLicense and sets the default values.
func NewAssignedLicense>(*AssignedLicense) {
    m := &AssignedLicense{
    }
    m.SetAdditionalData(make(map[string]interface{ }));
    return m
}
// CreateAssignedLicenseFromDiscriminatorValue
creates a new instance of the appropriate class based on discriminator value
func CreateAssignedLicenseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignedLicense(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignedLicense) GetAdditionalData()(map[string]interface{ }) {
    return m.additionalData
}
// GetDisabledPlans gets the disabledPlans property value. A collection of the unique identifiers for plans that have
been disabled.
func (m *AssignedLicense) GetDisabledPlans()([]string) {
    return m.disabledPlans
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignedLicense)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error))
{
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["disabledPlans"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetDisabledPlans)
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetString(m.SetOdataType)
    res["skuId"] =

```

```

i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *AssignedLicense) GetOdataType>(*string) {
    return m.odatatype
}
// GetSkuId gets the skuId property value. The unique identifier for the SKU.
func (m *AssignedLicense) GetSkuId>(*string) {
    return m.skuId
}
// Serialize serializes information the current object
func (m *AssignedLicense) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetDisabledPlans() != nil {
        err := writer.WriteCollectionOfStringValues("disabledPlans", m.GetDisabledPlans())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("skuId", m.GetSkuId())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignedLicense) SetAdditionalData(value map[string]interface{})(error) {
    m.additionalData
    = value
}
// SetDisabledPlans sets the disabledPlans property value. A collection of the unique identifiers for plans that have
been disabled.

```

```

func (m *AssignedLicense) SetDisabledPlans(value []string) {
    m.disabledPlans = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *AssignedLicense) SetOdataType(value *string) {
    m.odatatype = value
}
// SetSkuid sets the skuId property value. The unique identifier for the SKU.
func (m *AssignedLicense) SetSkuid(value *string) {
    m.skuId = value
}

```

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package licensedetails

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e  
    "github.com/microsoftgraph/msgraph-sdk-go/users/item/licensedetails/count"  
)  
  
// LicenseDetailsRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.  
type LicenseDetailsRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build  
the URL for the current request builder  
    urlTemplate string  
}  
  
// LicenseDetailsRequestBuilderGetQueryParameters retrieve a list of licenseDetails objects for enterprise users.  
This API returns details for licenses that are directly assigned and those transitively assigned through memberships  
in licensed groups.  
type LicenseDetailsRequestBuilderGetQueryParameters struct {  
    // Include count of items  
    Count *bool `uriparametername:"%24count"`  
    // Expand related entities  
    Expand []string `uriparametername:"%24expand"`  
    // Filter items by property values  
    Filter *string `uriparametername:"%24filter"`  
    // Order items by property values  
    Orderby []string `uriparametername:"%24orderby"`  
    // Search items by search phrases
```

```

Search *string `uriparametername:"%24search"`
// Select properties to be returned
Select []string `uriparametername:"%24select"`
// Skip the first n items
Skip *int32 `uriparametername:"%24skip"`
// Show only the first n items
Top *int32 `uriparametername:"%24top"`
}
// LicenseDetailsRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderGetRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
// Request query parameters
QueryParameters *LicenseDetailsRequestBuilderGetQueryParameters
}
// LicenseDetailsRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderPostRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsRequestBuilderInternal instantiates a new LicenseDetailsRequestBuilder
and sets the default values.
func NewLicenseDetailsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
m := &LicenseDetailsRequestBuilder{
}
m.urlTemplate =
"+baseurl}/users/{user%2Did}/licenseDetails{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%2
4select,%24expand}";
urlTplParams := make(map[string]string)
for idx, item := range pathParameters {
urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewLicenseDetailsRequestBuilder instantiates a new LicenseDetailsRequestBuilder and sets the default values.
func NewLicenseDetailsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {

```

```

urlParams := make(map[string]string)
urlParams["request-raw-url"]
= rawUrl
return NewLicenseDetailsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *LicenseDetailsRequestBuilder)
Count()(i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e.CountRequestBuilder) {
return
i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e.NewCountRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// CreateGetRequestInformation retrieve a list of licenseDetails objects for enterprise users. This API returns details
for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
requestInfo.UrlTemplate = m.urlTemplate
requestInfo.PathParameters = m.pathParameters
requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
requestInfo.Headers["Accept"] = "application/json"
if requestConfiguration != nil {
if requestConfiguration.QueryParameters != nil {
requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
}
requestInfo.AddRequestHeaders(requestConfiguration.Headers)
requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// CreatePostRequestInformation create new navigation property to licenseDetails for users
func (m *LicenseDetailsRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
requestInfo.UrlTemplate = m.urlTemplate
requestInfo.PathParameters = m.pathParameters
requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
requestInfo.Headers["Accept"] = "application/json"
requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
if requestConfiguration != nil {
requestInfo.AddRequestHeaders(requestConfiguration.Headers)
}
}

```

```

    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Get retrieve a list of licenseDetails objects for enterprise users. This API returns details for licenses that are
directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda
76f641a29edf2b242.LicenseDetailsCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsCollectionRespo
nseFromDiscriminatorValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsCollectionRespon
sable), nil
}
// Post create new navigation property to licenseDetails for users
func (m *LicenseDetailsRequestBuilder) Post(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator

```

```

Value,
  "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iaacd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}
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```

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package licensedetails

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d  
    "github.com/microsoftgraph/msgraph-sdk-go/me/licensedetails/count"  
)
```

```
// LicenseDetailsRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.
```

```

type LicenseDetailsRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL
    for the current request builder
    urlTemplate string
}
// LicenseDetailsRequestBuilderGetQueryParameters retrieve a list of licenseDetails objects for enterprise users.
This API returns details for licenses that are directly assigned and those transitively assigned through memberships
in licensed groups.
type LicenseDetailsRequestBuilderGetQueryParameters struct {
    // Include count of items
    Count *bool `uriparametername:"%24count"`
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Filter items by property values
    Filter *string `uriparametername:"%24filter"`
    // Order items by property values
    Orderby []string `uriparametername:"%24orderby"`
    // Search items by search phrases
    Search *string `uriparametername:"%24search"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
    // Skip the first n items
    Skip *int32 `uriparametername:"%24skip"`
    // Show only the first n items

    Top *int32 `uriparametername:"%24top"`
}
// LicenseDetailsRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsRequestBuilderGetQueryParameters
}
// LicenseDetailsRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption

```

```

}
// NewLicenseDetailsRequestBuilderInternal instantiates a new LicenseDetailsRequestBuilder and
sets the default values.
func NewLicenseDetailsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
    m := &LicenseDetailsRequestBuilder{
    }
    m.urlTemplate =
"+baseurl}/me/licenseDetails{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%24select,%24expa
nd}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewLicenseDetailsRequestBuilder instantiates a new LicenseDetailsRequestBuilder and sets the default values.
func NewLicenseDetailsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] =
rawUrl
    return NewLicenseDetailsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *LicenseDetailsRequestBuilder)
Count()(i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d.CountRequestBuilder) {
    return
i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d.NewCountRequestBuilderInternal(m.p
athParameters, m.requestAdapter);
}
// CreateGetRequestInformation retrieve a list of licenseDetails objects for enterprise users. This API returns details
for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {

```

```

        requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
    }
    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// CreatePostRequestInformation create new navigation property to licenseDetails for me
func (m *LicenseDetailsRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Get retrieve a list of licenseDetails objects for enterprise users. This API returns details for licenses that are
directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) Get(ctx context.Context,
requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda
76f641a29edf2b242.LicenseDetailsCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsCollectionRespo
nseFromDiscriminatorValue, errorMapping)

```

```

if err != nil {
    return nil, err
}
if res == nil {
    return nil, nil
}
return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsCollectionRespon-
sible),
nil
}
// Post create new navigation property to licenseDetails for me
func (m *LicenseDetailsRequestBuilder) Post(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err
:= m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}

```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsCollectionResponse
```

```

type LicenseDetailsCollectionResponse struct {
    BaseCollectionPaginationCountResponse
    // The value property
    value []LicenseDetailsable
}
// NewLicenseDetailsCollectionResponse instantiates a new LicenseDetailsCollectionResponse and sets the default
values.
func NewLicenseDetailsCollectionResponse>(*LicenseDetailsCollectionResponse) {
    m := &LicenseDetailsCollectionResponse{
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),
    }
    return m
}
// CreateLicenseDetailsCollectionResponseFromDiscriminatorValue creates a new instance of the appropriate class
based on discriminator value
func CreateLicenseDetailsCollectionResponseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseDetailsCollectionResponse(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseDetailsCollectionResponse)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateL
icenseDetailsFromDiscriminatorValue , m.SetValue)
    return res
}
// GetValue gets the value property value. The value property
func (m *LicenseDetailsCollectionResponse) GetValue()([]LicenseDetailsable) {
    return m.value
}
// Serialize serializes information the current object
func (m *LicenseDetailsCollectionResponse)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {

```

```

        return err
    }
}
return nil
}
// SetValue sets the value property value. The value property
func (m *LicenseDetailsCollectionResponse) SetValue(value []LicenseDetailsable)() {
    m.value = value
}
package assignlicense

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// AssignLicenseRequestBuilder provides operations to call the assignLicense method.
type AssignLicenseRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and
middleware options.
type AssignLicenseRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default
values.
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    m := &AssignLicenseRequestBuilder{
    }
    m.urlTemplate = "{+baseurl}/me/microsoft.graph.assignLicense";
    m.urlTplParams := make(map[string]string)

```

```

for idx, item := range pathParameters {
    urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder and
sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation invoke action assignLicense
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post invoke action assignLicense
func (m *AssignLicenseRequestBuilder) Post(ctx context.Context, body AssignLicensePostRequestBodyable,
requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadc81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,

```

```

    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iaadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
# BSD 3-Clause License

```

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```
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```

```
// SPDX-License-Identifier: MPL-2.0
```

```
package vsphere
```

```
import (
```

```
    "errors"
```

```
    "fmt"
```

```
    "log"
```

```
    "context"
```

```
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
```

```
    "github.com/vmware/govmomi/license"
```

```
    "github.com/vmware/govmomi/vim25/methods"
```

```

"github.com/vmware/govmomi/vim25/types"
)

var (
// ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.
// The error doesn't display the key itself for security reasons.
ErrNoSuchKeyFound = errors.New("The key was not found")
// ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is
// being removed
ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")
)

func resourceVSphereLicense() *schema.Resource {
return &schema.Resource{

SchemaVersion: 1,

Create: resourceVSphereLicenseCreate,
Read: resourceVSphereLicenseRead,
Update: resourceVSphereLicenseUpdate,
Delete: resourceVSphereLicenseDelete,

Schema: map[string]*schema.Schema{
"license_key":
{
Type: schema.TypeString,
Required: true,
ForceNew: true,
},
"labels": {
Type: schema.TypeMap,
Optional: true,
Elem: &schema.Schema{Type: schema.TypeString},
},

// computed properties returned by the API
"edition_key": {
Type: schema.TypeString,
Computed: true,
},
"name": {
Type: schema.TypeString,
Computed: true,
},
"total": {
Type: schema.TypeInt,
Computed: true,
},
},
}
}

```

```

"used": {
  Type:  schema.TypeInt,
  Computed: true,
},
},
}
}

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{ }) error {
  log.Println("[INFO] Running the create method")

  client := meta.(*Client).vimClient
  manager := license.NewManager(client.Client)

  key := d.Get("license_key").(string)

  log.Println(" [INFO] Reading the key from the resource data")
  var labelMap map[string]interface{ }
  if labels, ok := d.GetOk("labels"); ok {
    labelMap = labels.(map[string]interface{ })
  }

  var
  info types.LicenseManagerLicenseInfo
  var err error
  switch t := client.ServiceContent.About.ApiType; t {
  case "HostAgent":
    // Labels are not allowed in ESXi
    if len(labelMap) != 0 {
      return errors.New("Labels are not allowed in ESXi")
    }
    info, err = manager.Update(context.TODO(), key, nil)

  case "VirtualCenter":
    info, err = manager.Add(context.TODO(), key, nil)
    if err != nil {
      return err
    }
    err = updateLabels(manager, key, labelMap)

  default:
    return fmt.Errorf("unsupported ApiType: %s", t)
  }

  if err != nil {
    return err
  }
}

```

```

if err = DecodeError(info); err != nil {
    return err
}

// This can be used in the read method to set the computed parameters
d.SetId(info.LicenseKey)

return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the read method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if info
:= getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
        log.Println("[INFO] Setting the values")
        _ = d.Set("edition_key", info.EditionKey)
        _ = d.Set("total", info.Total)
        _ = d.Set("used", info.Used)
        _ = d.Set("name", info.Name)
        _ = d.Set("labels", keyValuesToMap(info.Labels))
    } else {
        return ErrNoSuchKeyFound
    }

    return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the update method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if key, ok := d.GetOk("license_key"); ok {
        licenseKey := key.(string)
        if !isKeyPresent(licenseKey, manager) {
            return ErrNoSuchKeyFound
        }

        if d.HasChange("labels") {
            labelMap := d.Get("labels").(map[string]interface{ })

            err := updateLabels(manager, licenseKey, labelMap)

```

```

    if err != nil {
        return err
    }
}

return
resourceVSphereLicenseRead(d, meta)
}

func updateLabels(manager *license.Manager, licenseKey string, labelMap map[string]interface{}) error {
    for key, value := range labelMap {
        err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
        if err != nil {
            return err
        }
    }
    return nil
}

func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{}) error {
    log.Println("[INFO] Running the delete method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
        err := manager.Remove(context.TODO(), key)

        if err != nil {
            return err
        }

        // if the key is still present
        if isKeyPresent(key, manager) {
            return ErrKeyCannotBeDeleted
        }
        d.SetId("")
        return nil
    }
    return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
    // Use of decode is not returning
    labels so using list instead
    // Issue - https://github.com/vmware/govmomi/issues/797
    infoList, _ := manager.List(context.TODO())

```

```

for _, info := range infoList {
    if info.LicenseKey == key {
        return &info
    }
}
return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
    infoList, _ := manager.List(context.TODO())

    for _, info := range infoList {
        if info.LicenseKey == key {
            return true
        }
    }

    return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {
    req := types.UpdateLicenseLabel{
        This:    m.Reference(),
        LicenseKey: licenseKey,
        LabelKey: key,
        LabelValue: val,
    }

    _, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
//
// to the server
func DecodeError(info types.LicenseManagerLicenseInfo) error {
    for _, property := range info.Properties {
        if property.Key == "diagnostic" {
            return errors.New(property.Value.(string))
        }
    }

    return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {

```

```

KVMap := make(map[string]interface{ })
for _, keyValue := range keyValues {
    KVMap[keyValue.Key] = keyValue.Value
}
return KVMap
}
package models

import (
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// LicenseProcessingState
type LicenseProcessingState struct {
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for
    serialization as well.
    additionalData map[string]interface{ }
    // The OdataType property
    odataType *string
    // The state property
    state *string
}
// NewLicenseProcessingState instantiates a new licenseProcessingState and sets the default values.
func NewLicenseProcessingState(*LicenseProcessingState) {
    m := &LicenseProcessingState{
    }
    m.SetAdditionalData(make(map[string]interface{ }));
    return m
}
// CreateLicenseProcessingStateFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator
value
func CreateLicenseProcessingStateFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseProcessingState(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseProcessingState) GetAdditionalData()(map[string]interface{ }) {
    return m.additionalData
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseProcessingState)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f

```

```

91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["state"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetState)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseProcessingState) GetOdataType()*string) {
    return m.odataType
}
// GetState gets the state property value. The state property
func (m *LicenseProcessingState) GetState()*string) {
    return m.state
}
// Serialize serializes information the current object
func (m *LicenseProcessingState) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("state", m.GetState())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseProcessingState) SetAdditionalData(value map[string]interface{})(error) {
    m.additionalData = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *LicenseProcessingState) SetOdataType(value *string)(error) {

```

```
m.odataType = value
}
// SetState sets the state property value. The state property
func (m *LicenseProcessingState) SetState(value *string) {
    m.state = value
}
```

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package item

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// LicenseDetailsItemRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.  
type LicenseDetailsItemRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
// LicenseDetailsItemRequestBuilderDeleteRequestConfiguration configuration for the
```

```

request such as headers, query parameters, and middleware options.
type LicenseDetailsItemRequestBuilderDeleteRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// LicenseDetailsItemRequestBuilderGetQueryParameters a collection of this user's license details. Read-only.
type LicenseDetailsItemRequestBuilderGetQueryParameters struct {
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
}
// LicenseDetailsItemRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsItemRequestBuilderGetQueryParameters
}
// LicenseDetailsItemRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderPatchRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsItemRequestBuilderInternal instantiates a new LicenseDetailsItemRequestBuilder and sets the
default values.
func NewLicenseDetailsItemRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    m := &LicenseDetailsItemRequestBuilder{
    }
    m.urlTemplate =
"+baseurl}/users/{user%2Did}/licenseDetails/{licenseDetails%2Did}{?%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}

```

```

}
// NewLicenseDetailsItemRequestBuilder instantiates a new LicenseDetailsItemRequestBuilder and sets the default
values.
func NewLicenseDetailsItemRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewLicenseDetailsItemRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property licenseDetails for users
func (m *LicenseDetailsItemRequestBuilder) CreateDeleteRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52
9013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property licenseDetails in users

```

```

func (m *LicenseDetailsItemRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Delete delete navigation property licenseDetails for users
func (m *LicenseDetailsItemRequestBuilder) Delete(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(error)
{
    requestInfo, err := m.CreateDeleteRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380
dda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx,
requestConfiguration);
    if err != nil {

```

```

    return nil, err
  }
  errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}
// Patch update the navigation property licenseDetails in users
func (m *LicenseDetailsItemRequestBuilder) Patch(ctx context.Context, body
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(iaacd81124412c61e647227ecfc4449d8bba17de03
80dda76f641a29edf2b242.LicenseDetailsable, error) {
  requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
  if err != nil {
    return nil, err
  }
  errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
}

```

```
return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}
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```

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package licensemanager

```
import (  
    "context"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/licensemanager"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/errs/sdkdiag"  
)  
  
// @SDKDataSource("aws_licensemanager_received_licenses")  
func DataSourceReceivedLicenses() *schema.Resource {  
    return &schema.Resource{  
        ReadWithoutTimeout: dataSourceReceivedLicensesRead,  
        Schema: map[string]*schema.Schema{  
            "arns": {  
                Type:     schema.TypeList,  
                Computed: true,  
                Elem:     &schema.Schema{Type: schema.TypeString},  
            },  
            "filter": DataSourceFiltersSchema(),  
        },  
    }  
}  
  
func dataSourceReceivedLicensesRead(ctx context.Context, d *schema.ResourceData, meta interface{})  
diag.Diagnostics {  
    var diags diag.Diagnostics  
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)  
  
    in := &licensemanager.ListReceivedLicensesInput{ }
```

```

in.Filters = BuildFiltersDataSource(
    d.Get("filter").(*schema.Set),
)

if len(in.Filters) == 0 {
    in.Filters = nil
}

out, err := FindReceivedLicenses(ctx, conn, in)

if err != nil {
    return sdkdiag.AppendErrorf(diags, "reading Received Licenses: %s", err)
}

var licenseARNs []string

for _, v := range out {
    licenseARNs = append(licenseARNs, aws.StringValue(v.LicenseArn))
}

d.SetId(meta.(*conns.AWSClient).Region)
d.Set("arns", licenseARNs)

return diags
}

func FindReceivedLicenses(ctx context.Context, conn *licensemanager.LicenseManager, in
*licensemanager.ListReceivedLicensesInput) ([]*licensemanager.GrantedLicense, error) {
    var out []*licensemanager.GrantedLicense

    err := listReceivedLicensesPages(ctx, conn, in, func(page *licensemanager.ListReceivedLicensesOutput, lastPage
bool) bool {
        if page ==
        nil {
            return !lastPage
        }

        for _, v := range page.Licenses {
            if v != nil {
                out = append(out, v)
            }
        }

        return !lastPage
    })

    if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeResourceNotFoundException) {
        return nil, &retry.NotFoundError{

```

```
LastError: err,  
LastRequest: in,  
}  
}  
  
if err != nil {  
    return nil, err  
}  
  
return out, nil  
}
```

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```

```
package spec
```

```
import (
    "encoding/json"
```

```
    "github.com/go-openapi/swag"
)
```

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}
```

```
// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
```

```
// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}
```

```
// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
```

```

if err != nil {
    return nil, err
}
b2, err := json.Marshal(l VendorExtensible)
if err != nil {
    return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}

```

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package licensemanager

```

import (
    "context"
    "log"
    "regexp"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/licensemanager"
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
    "github.com/hashicorp/terraform-plugin-sdk/v2/diag"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/retry"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
    "github.com/hashicorp/terraform-provider-aws/internal/conns"
    "github.com/hashicorp/terraform-provider-aws/internal/flex"
    tftags "github.com/hashicorp/terraform-provider-aws/internal/tags"
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"

```

```

"github.com/hashicorp/terraform-provider-aws/internal/verify"
"github.com/hashicorp/terraform-provider-aws/names"
)

// @SDKResource("aws_licensemanager_license_configuration", name="License Configuration")
// @Tags(identifierAttribute="id")
func ResourceLicenseConfiguration() *schema.Resource
{
return &schema.Resource{
CreateWithoutTimeout: resourceLicenseConfigurationCreate,
ReadWithoutTimeout: resourceLicenseConfigurationRead,
UpdateWithoutTimeout: resourceLicenseConfigurationUpdate,
DeleteWithoutTimeout: resourceLicenseConfigurationDelete,

Importer: &schema.ResourceImporter{
StateContext: schema.ImportStatePassthroughContext,
},

Schema: map[string]*schema.Schema{
"arn": {
Type: schema.TypeString,
Computed: true,
},
"description": {
Type: schema.TypeString,
Optional: true,
},
"license_count": {
Type: schema.TypeInt,
Optional: true,
},
"license_count_hard_limit": {
Type: schema.TypeBool,
Optional: true,
Default: false,
},
"license_counting_type": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
ValidateFunc: validation.StringInSlice(licensemanager.LicenseCountingType_Values(), false),
},
"license_rules": {
Type:
schema.TypeList,
Optional: true,
ForceNew: true,
Elem: &schema.Schema{

```

```

    Type:    schema.TypeString,
    ValidateFunc: validation.StringMatch(regex.MustCompile("^#[^=]+=.(+)"), "Expected format is
#RuleType=RuleValue"),
  },
},
"name": {
  Type:    schema.TypeString,
  Required: true,
},
"owner_account_id": {
  Type:    schema.TypeString,
  Computed: true,
},
names.AttrTags:    tftags.TagsSchema(),
names.AttrTagsAll: tftags.TagsSchemaComputed(),
},

CustomizeDiff: verify.SetTagsDiff,
}
}

```

```

func resourceLicenseConfigurationCreate(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
  conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

  name := d.Get("name").(string)
  input := &licensemanager.CreateLicenseConfigurationInput{
    LicenseCountingType: aws.String(d.Get("license_counting_type").(string)),
    Name:                 aws.String(name),
    Tags:                 GetTagsIn(ctx),
  }

  if v, ok :=
:= d.GetOk("description"); ok {
  input.Description = aws.String(v.(string))
}

  if v, ok := d.GetOk("license_count"); ok {
  input.LicenseCount = aws.Int64(int64(v.(int)))
}

  if v, ok := d.GetOk("license_count_hard_limit"); ok {
  input.LicenseCountHardLimit = aws.Bool(v.(bool))
}

  if v, ok := d.GetOk("license_rules"); ok && len(v.([]interface{})) > 0 {
  input.LicenseRules = flex.ExpandStringList(v.([]interface{}))
}
}

```

```

log.Printf("[DEBUG] Creating License Manager License Configuration: %s", input)
resp, err := conn.CreateLicenseConfigurationWithContext(ctx, input)

if err != nil {
    return diag.Errorf("creating License Manager License Configuration (%s): %s", name, err)
}

d.SetId(aws.StringValue(resp.LicenseConfigurationArn))

return resourceLicenseConfigurationRead(ctx, d, meta)
}

func resourceLicenseConfigurationRead(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

    output, err
    := FindLicenseConfigurationByARN(ctx, conn, d.Id())

    if !d.IsNewResource() && tfresource.NotFound(err) {
        log.Printf("[WARN] License Manager License Configuration %s not found, removing from state", d.Id())
        d.SetId("")
        return nil
    }

    if err != nil {
        return diag.Errorf("reading License Manager License Configuration (%s): %s", d.Id(), err)
    }

    d.Set("arn", output.LicenseConfigurationArn)
    d.Set("description", output.Description)
    d.Set("license_count", output.LicenseCount)
    d.Set("license_count_hard_limit", output.LicenseCountHardLimit)
    d.Set("license_counting_type", output.LicenseCountingType)
    d.Set("license_rules", aws.StringValueSlice(output.LicenseRules))
    d.Set("name", output.Name)
    d.Set("owner_account_id", output.OwnerAccountId)

    SetTagsOut(ctx, output.Tags)

    return nil
}

func resourceLicenseConfigurationUpdate(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
    conn := meta.(*conns.AWSClient).LicenseManagerConn(ctx)

```

```

if d.HasChangesExcept("tags",
"tags_all") {
input := &licensemanager.UpdateLicenseConfigurationInput{
Description:      aws.String(d.Get("description").(string)),
LicenseConfigurationArn: aws.String(d.Id()),
LicenseCountHardLimit: aws.Bool(d.Get("license_count_hard_limit").(bool)),
Name:            aws.String(d.Get("name").(string)),
}

if v, ok := d.GetOk("license_count"); ok {
input.LicenseCount = aws.Int64(int64(v.(int)))
}

log.Printf("[DEBUG] Updating License Manager License Configuration: %s", input)
_, err := conn.UpdateLicenseConfigurationWithContext(ctx, input)

if err != nil {
return diag.Errorf("updating License Manager License Configuration (%s): %s", d.Id(), err)
}
}

return resourceLicenseConfigurationRead(ctx, d, meta)
}

func resourceLicenseConfigurationDelete(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
conn := meta.(*conns.AWSCClient).LicenseManagerConn(ctx)

log.Printf("[DEBUG] Deleting License
Manager License Configuration: %s", d.Id())
_, err := conn.DeleteLicenseConfigurationWithContext(ctx, &licensemanager.DeleteLicenseConfigurationInput{
LicenseConfigurationArn: aws.String(d.Id()),
})

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeInvalidParameterValueException) {
return nil
}

if err != nil {
return diag.Errorf("deleting License Manager License Configuration (%s): %s", d.Id(), err)
}

return nil
}

func FindLicenseConfigurationByARN(ctx context.Context, conn *licensemanager.LicenseManager, arn string)
(*licensemanager.GetLicenseConfigurationOutput, error) {
input := &licensemanager.GetLicenseConfigurationInput{

```

```

LicenseConfigurationArn: aws.String(arn),
}

output, err := conn.GetLicenseConfigurationWithContext(ctx, input)

if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeInvalidParameterValueException) {
    return nil, &retry.NotFoundError{
        LastError: err,
        LastRequest: input,
    }
}

if err != nil {
    return nil, err
}

if output
== nil {
    return nil, tfresource.NewEmptyResultError(input)
}

return output, nil
}

```

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package grant

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantPostRequestBody provides operations to call the grant method.  
type GrantPostRequestBody struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{ }  
    // The recipients property  
    recipients []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.DriveRecipientable  
    // The roles property  
    roles []string  
}  
// NewGrantPostRequestBody instantiates a new grantPostRequestBody and sets the default values.  
func NewGrantPostRequestBody>(*GrantPostRequestBody)  
{  
    m := &GrantPostRequestBody{  
    }  
    m.SetAdditionalData(make(map[string]interface{ }));  
    return m  
}  
// CreateGrantPostRequestBodyFromDiscriminatorValue creates a new instance of the appropriate class based on  
discriminator value  
func CreateGrantPostRequestBodyFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewGrantPostRequestBody(), nil  
}  
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI  
description found when deserializing. Can be used for serialization as well.  
func (m *GrantPostRequestBody) GetAdditionalData()(map[string]interface{ }) {  
    return m.additionalData  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *GrantPostRequestBody)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error))
```

```

{
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(error))
    res["recipients"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.CreateDriveRecipientFromDiscriminatorValue, m.SetRecipients)
    res["roles"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("string", m.SetRoles)
    return res
}
// GetRecipients gets the recipients property value. The recipients property
func (m *GrantPostRequestBody) GetRecipients()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)
{
    return m.recipients
}
// GetRoles gets the roles property value. The roles property
func (m *GrantPostRequestBody) GetRoles()([]string) {
    return m.roles
}
// Serialize serializes information the current object
func
(m *GrantPostRequestBody) Serialize(writer i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetRecipients() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetRecipients())
        err := writer.WriteCollectionOfObjectValues("recipients", cast)
        if err != nil {
            return err
        }
    }
    if m.GetRoles() != nil {
        err := writer.WriteCollectionOfStringValues("roles", m.GetRoles())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
}

```

```

    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization
as well.
func (m *GrantPostRequestBody) SetAdditionalData(value map[string]interface{})() {
    m.additionalData = value
}
// SetRecipients sets the recipients property value. The recipients property
func (m *GrantPostRequestBody) SetRecipients(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.DriveRecipientable)() {
    m.recipients = value
}
// SetRoles sets the roles property value. The roles property
func (m *GrantPostRequestBody) SetRoles(value []string)() {
    m.roles = value
}
package assignlicense

import (
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
"github.com/microsoftgraph/msgraph-sdk-go/models"
)

// AssignLicensePostRequestBodyable
type AssignLicensePostRequestBodyable interface {
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetAddLicenses()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicense
able)
    GetRemoveLicenses()([]string)
    SetAddLicenses(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable)()
    SetRemoveLicenses(value []string)()
}

```

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Files: snappy/*

Files: internal/snapref/*

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Files: s2/cmd/internal/filepathx/*

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// Package misspell corrects commonly misspelled English words in source files.
package misspell

// Legal provides licensing info.

const Legal = `

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Misspell makes use of the Golang standard library and contains a modified version of Golang's strings.Replacer which are covered under a BSD License.

* <https://golang.org/pkg/strings/#Replacer>

* <https://golang.org/src/strings/replace.go>

* <https://github.com/golang/go/blob/master/LICENSE>

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package models

```

import (
    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// Permission provides operations to manage the collection of agreement entities.
type Permission struct {
    Entity
    // A format of yyyy-MM-ddTHH:mm:ssZ of DateTimeOffset indicates the expiration time of the permission.
    DateTime.MinValue indicates there is no expiration set for this permission. Optional.
    expirationDateTime *i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time
    // The grantedTo property
    grantedTo IdentitySetable
    // The grantedToIdentities property
    grantedToIdentities []IdentitySetable
    // For link type permissions, the details of the users to whom permission was granted. Read-only.

    grantedToIdentitiesV2 []SharePointIdentitySetable
    // For user type permissions, the details of the users and applications for this permission. Read-only.
    grantedToV2 SharePointIdentitySetable
    // Indicates whether the password is set for this permission. This property only appears in the response. Optional.
    Read-only. For OneDrive Personal only..
    hasPassword *bool
    // Provides a reference to the ancestor of the current permission, if it is inherited from an ancestor. Read-only.
    inheritedFrom ItemReferenceable
    // Details of any associated sharing invitation for this permission. Read-only.
    invitation SharingInvitationable
    // Provides the link details of the current permission, if it is a link type permissions. Read-only.
    link SharingLinkable
    // The type of permission, for example, read. See below for the full list of roles. Read-only.
    roles []string
    // A unique token that can be used to access this shared item via the **shares** API. Read-only.
    shareId *string
}
// NewPermission instantiates a new permission and sets the default values.
func NewPermission>(*Permission) {
    m := &Permission{
        Entity: *NewEntity(),
    }
    return m
}
// CreatePermissionFromDiscriminatorValue creates a new instance of the appropriate class based on discriminator
value
func CreatePermissionFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896

```

```

388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewPermission(), nil
}
// GetExpirationDateTime gets the expirationDateTime property value. A format of yyyy-MM-ddTHH:mm:ssZ of
DateTimeOffset indicates the expiration time of the permission. DateTime.MinValue indicates there is no expiration
set for this permission. Optional.
func (m *Permission)
GetExpirationDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time) {
    return m.expirationDateTime
}
// GetFieldDeserializers
the deserialization information for the current model
func (m *Permission)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.Entity.GetFieldDeserializers()
    res["expirationDateTime"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetTimeValue(m.SetExpirationDateTi
me)
    res["grantedTo"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateIdentitySetFro
mDiscriminatorValue , m.SetGrantedTo)
    res["grantedToIdentities"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateId
entitySetFromDiscriminatorValue , m.SetGrantedToIdentities)
    res["grantedToIdentitiesV2"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateS
harePointIdentitySetFromDiscriminatorValue , m.SetGrantedToIdentitiesV2)
    res["grantedToV2"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharePointIdent
itySetFromDiscriminatorValue
, m.SetGrantedToV2)
    res["hasPassword"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetBoolValue(m.SetHasPassword)
    res["inheritedFrom"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateItemReferenceF
romDiscriminatorValue , m.SetInheritedFrom)
    res["invitation"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharingInvitati
onFromDiscriminatorValue , m.SetInvitation)
    res["link"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharingLinkFro
mDiscriminatorValue , m.SetLink)
    res["roles"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRoles)
    res["shareId"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetShareId)

```

```

    return res
}
// GetGrantedTo gets the grantedTo property value. The grantedTo property
func (m *Permission) GetGrantedTo()(IdentitySetable) {
    return m.grantedTo
}
// GetGrantedToIdentities gets the grantedToIdentities property value. The grantedToIdentities property
func (m *Permission) GetGrantedToIdentities()([]IdentitySetable) {
    return m.grantedToIdentities
}
// GetGrantedToIdentitiesV2 gets the grantedToIdentitiesV2 property value. For link type permissions, the details of
the users to whom permission was granted. Read-only.
func (m *Permission) GetGrantedToIdentitiesV2()([]SharePointIdentitySetable) {
    return m.grantedToIdentitiesV2
}
// GetGrantedToV2 gets the grantedToV2 property value. For user type permissions, the details of the users and
applications for this permission. Read-only.
func (m *Permission) GetGrantedToV2()(SharePointIdentitySetable) {
    return m.grantedToV2
}
// GetHasPassword gets the hasPassword property value. Indicates whether
the password is set for this permission. This property only appears in the response. Optional. Read-only. For
OneDrive Personal only..
func (m *Permission) GetHasPassword>(*bool) {
    return m.hasPassword
}
// GetInheritedFrom gets the inheritedFrom property value. Provides a reference to the ancestor of the current
permission, if it is inherited from an ancestor. Read-only.
func (m *Permission) GetInheritedFrom()(ItemReferenceable) {
    return m.inheritedFrom
}
// GetInvitation gets the invitation property value. Details of any associated sharing invitation for this permission.
Read-only.
func (m *Permission) GetInvitation()(SharingInvitationable) {
    return m.invitation
}
// GetLink gets the link property value. Provides the link details of the current permission, if it is a link type
permissions. Read-only.
func (m *Permission) GetLink()(SharingLinkable) {
    return m.link
}
// GetRoles gets the roles property value. The type of permission, for example, read. See below for the
full list of roles. Read-only.
func (m *Permission) GetRoles()([]string) {
    return m.roles
}
// GetShareId gets the shareId property value. A unique token that can be used to access this shared item via the
**shares** API. Read-only.

```

```

func (m *Permission) GetShareId>(*string) {
    return m.shareId
}
// Serialize serializes information the current object
func (m *Permission) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.Entity.Serialize(writer)
    if err != nil {
        return err
    }
    {
        err = writer.WriteTimeValue("expirationDateTime", m.GetExpirationDateTime())
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteObjectValue("grantedTo", m.GetGrantedTo())
        if err != nil {
            return err
        }
    }
    if m.GetGrantedToIdentities() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetGrantedToIdentities())
        err = writer.WriteCollectionOfObjectValues("grantedToIdentities", cast)
        if err != nil {
            return err
        }
    }
    if m.GetGrantedToIdentitiesV2() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetGrantedToIdentitiesV2())
        err = writer.WriteCollectionOfObjectValues("grantedToIdentitiesV2", cast)
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteObjectValue("grantedToV2", m.GetGrantedToV2())
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteBoolValue("hasPassword", m.GetHasPassword())

```

```

    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("inheritedFrom", m.GetInheritedFrom())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("invitation", m.GetInvitation())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("link", m.GetLink())
    if err != nil {
        return err
    }
}
if m.GetRoles() != nil {
    err = writer.WriteCollectionOfStringValues("roles", m.GetRoles())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteStringValue("shareId", m.GetShareId())
    if err != nil {
        return err
    }
}
return nil
}
// SetExpirationDateTime sets the expirationDateTime property value. A format of yyyy-MM-ddTHH:mm:ssZ of
// DateTimeOffset indicates the expiration time of the permission. DateTime.MinValue indicates there is no expiration
// set for this permission. Optional.
func (m *Permission) SetExpirationDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)()
{
    m.expirationDateTime = value
}
// SetGrantedTo sets the grantedTo property value. The grantedTo property
func (m *Permission) SetGrantedTo(value IdentitySettable) {
    m.grantedTo = value
}

```

```

// SetGrantedToIdentities sets the grantedToIdentities property value. The grantedToIdentities property
func (m *Permission) SetGrantedToIdentities(value []IdentitySetable)() {
    m.grantedToIdentities = value
}
// SetGrantedToIdentitiesV2 sets the grantedToIdentitiesV2 property value. For link type permissions, the details of
the users to whom permission was granted. Read-only.
func (m *Permission) SetGrantedToIdentitiesV2(value []SharePointIdentitySetable)() {
    m.grantedToIdentitiesV2 = value
}
// SetGrantedToV2 sets the grantedToV2 property value. For user type permissions, the details of the users and
applications for this permission. Read-only.
func (m *Permission) SetGrantedToV2(value SharePointIdentitySetable)() {
    m.grantedToV2 = value
}
//
SetHasPassword sets the hasPassword property value. Indicates whether the password is set for this permission.
This property only appears in the response. Optional. Read-only. For OneDrive Personal only..
func (m *Permission) SetHasPassword(value *bool)() {
    m.hasPassword = value
}
// SetInheritedFrom sets the inheritedFrom property value. Provides a reference to the ancestor of the current
permission, if it is inherited from an ancestor. Read-only.
func (m *Permission) SetInheritedFrom(value ItemReferenceable)() {
    m.inheritedFrom = value
}
// SetInvitation sets the invitation property value. Details of any associated sharing invitation for this permission.
Read-only.
func (m *Permission) SetInvitation(value SharingInvitationable)() {
    m.invitation = value
}
// SetLink sets the link property value. Provides the link details of the current permission, if it is a link type
permissions. Read-only.
func (m *Permission) SetLink(value SharingLinkable)() {
    m.link = value
}
//
SetRoles sets the roles property value. The type of permission, for example, read. See below for the full list of roles.
Read-only.
func (m *Permission) SetRoles(value []string)() {
    m.roles = value
}
// SetShareId sets the shareId property value. A unique token that can be used to access this shared item via the
**shares** API. Read-only.
func (m *Permission) SetShareId(value *string)() {
    m.shareId = value
}

```

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseUnitsDetailable  
type LicenseUnitsDetailable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetEnabled()(*int32)  
    GetOdataType()(*string)  
    GetSuspended()(*int32)  
    GetWarning()(*int32)  
    SetEnabled(value *int32)()  
    SetOdataType(value *string)()  
    SetSuspended(value *int32)()  
    SetWarning(value *int32)()  
}
```

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protoc-gen-validate

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsCollectionResponseable
```

```
type LicenseDetailsCollectionResponseable interface {  
    BaseCollectionPagingCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]LicenseDetailsable)  
    SetValue(value []LicenseDetailsable())  
}
```

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package models

```
import (
```

```

    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// AssignedLicenseCollectionResponse
type AssignedLicenseCollectionResponse struct {
    BaseCollectionPaginationCountResponse
    // The value property
    value []AssignedLicenseable
}
// NewAssignedLicenseCollectionResponse instantiates a new AssignedLicenseCollectionResponse and sets the
default values.
func NewAssignedLicenseCollectionResponse(*AssignedLicenseCollectionResponse) {
    m := &AssignedLicenseCollectionResponse{
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),
    }
    return m
}
// CreateAssignedLicenseCollectionResponseFromDiscriminatorValue creates a new instance of the appropriate
class based on discriminator value
func CreateAssignedLicenseCollectionResponseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignedLicenseCollectionResponse(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignedLicenseCollectionResponse)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateA
ssignedLicenseFromDiscriminatorValue , m.SetValue)
    return res
}
// GetValue gets the value property value. The value property
func (m *AssignedLicenseCollectionResponse) GetValue()([]AssignedLicenseable) {
    return m.value
}
// Serialize serializes information the current object
func (m *AssignedLicenseCollectionResponse)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
}

```

```

    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *AssignedLicenseCollectionResponse) SetValue(value []AssignedLicenseable)() {
    m.value = value
}
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```

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package models

import (

```

i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
)

// LicenseAssignmentStateable
type LicenseAssignmentStateable interface {
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetAssignedByGroup()*string
    GetDisabledPlans([]string)
    GetError()*string
    GetLastUpdatedDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)
    GetOdataType()*string
    GetSkuId()*string
    GetState()*string
    SetAssignedByGroup(value *string)()
    SetDisabledPlans(value []string)()
    SetError(value *string)()
    SetLastUpdatedDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)()
    SetOdataType(value *string)()

    SetSkuId(value *string)()
    SetState(value *string)()
}
package permission

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
"github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
"github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
    ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8
"github.com/microsoftgraph/msgraph-sdk-go/shares/item/permission/grant"
)

// PermissionRequestBuilder provides operations to manage the permission property of the
microsoft.graph.sharedDriveItem entity.
type PermissionRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL

```

```

for the current request builder
    urlTemplate string
}
// PermissionRequestBuilderDeleteRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderDeleteRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// PermissionRequestBuilderGetQueryParameters used to access the permission representing the underlying sharing
link
type PermissionRequestBuilderGetQueryParameters struct {
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
}
// PermissionRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderGetRequestConfiguration struct {
    // Request
headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *PermissionRequestBuilderGetQueryParameters
}
// PermissionRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderPatchRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewPermissionRequestBuilderInternal instantiates a new PermissionRequestBuilder and sets the default values.
func NewPermissionRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*PermissionRequest
Builder) {
    m := &PermissionRequestBuilder{
    }
    m.urlTemplate
= "{+baseUrl}/shares/{sharedDriveItem%2Did}/permission{?%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {

```

```

    urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewPermissionRequestBuilder instantiates a new PermissionRequestBuilder and sets the default values.
func NewPermissionRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*PermissionRequest
Builder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewPermissionRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property permission for shares
func (m *PermissionRequestBuilder) CreateDeleteRequestInformation(ctx context.Context, requestConfiguration
*PermissionRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation used to access the permission representing the underlying sharing link
func (m *PermissionRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*PermissionRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b74
37480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}

```

```

}
// CreatePatchRequestInformation update the navigation property permission in shares
func (m *PermissionRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable, requestConfiguration
*PermissionRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b
7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Delete delete navigation property permission for shares
func (m *PermissionRequestBuilder) Delete(ctx context.Context, requestConfiguration
*PermissionRequestBuilderDeleteRequestConfiguration)(error) {
    requestInfo, err := m.CreateDeleteRequestInformation(ctx,
requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get used to access the permission representing the underlying sharing link
func (m *PermissionRequestBuilder) Get(ctx context.Context, requestConfiguration
*PermissionRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f
641a29edf2b242.Permissionable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {

```

```

    return nil, err
}
errorMapping
:= i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
}
res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminator
Value, errorMapping)
if err != nil {
    return nil, err
}
if res == nil {
    return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable), nil
}
// Grant provides operations to call the grant method.
func (m *PermissionRequestBuilder)
Grant>(*ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8.GrantRequestBuilder) {
    return
ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8.NewGrantRequestBuilderInternal(m.p
athParameters,
m.requestAdapter);
}
// Patch update the navigation property permission in shares
func (m *PermissionRequestBuilder) Patch(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable, requestConfiguration
*PermissionRequestBuilderPatchRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda7
6f641a29edf2b242.Permissionable, error) {
    requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,

```

```
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreatePermissionFromDiscriminator
Value,
errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable), nil
}
```

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```
# This is the official list of people who can contribute
# (and typically have contributed) code to the Snappy-Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# The submission process automatically checks to make sure
# that people submitting code are listed in this file (by email address).
#
```

```
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# http://code.google.com/legal/individual-cla-v1.0.html
# http://code.google.com/legal/corporate-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate
# CLA was used.
```

```
# Names should be added to this file like so:
# Name <email address>
```

```
# Please keep the list sorted.
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//go:build go1.10
// +build go1.10
```

```
package pq
```

```
import (
    "context"
    "database/sql/driver"
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
```

```

}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//

```

```
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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```

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People who can (and typically have) contributed to this repository.

#

This script is generated by contributors.sh

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package assignlicense

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// AssignLicensePostRequestBody provides operations to call the assignLicense method.  
type AssignLicensePostRequestBody struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{ }  
    // The addLicenses property  
    addLicenses []iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable  
    // The removeLicenses property  
    removeLicenses []string  
}  
  
// NewAssignLicensePostRequestBody instantiates a new assignLicensePostRequestBody and sets the  
default values.  
func NewAssignLicensePostRequestBody>(*AssignLicensePostRequestBody) {  
    m := &AssignLicensePostRequestBody{  
    }  
    m.SetAdditionalData(make(map[string]interface{ }));  
    return m  
}  
  
// CreateAssignLicensePostRequestBodyFromDiscriminatorValue creates a new instance of the appropriate class  
based on discriminator value  
func CreateAssignLicensePostRequestBodyFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewAssignLicensePostRequestBody(), nil  
}  
  
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI  
description found when deserializing. Can be used for serialization as well.
```

```

func (m *AssignLicensePostRequestBody) GetAdditionalData()(map[string]interface{ }) {
    return m.additionalData
}
// GetAddLicenses gets the addLicenses property value. The addLicenses
property
func (m *AssignLicensePostRequestBody)
GetAddLicenses()([]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.AssignedLicense
able) {
    return m.addLicenses
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignLicensePostRequestBody)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["addLicenses"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateAssignedLicenseFromDiscriminatorVal
ue , m.SetAddLicenses)
    res["removeLicenses"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRemoveLicenses)
    return res
}
// GetRemoveLicenses gets the
removeLicenses property value. The removeLicenses property
func (m *AssignLicensePostRequestBody) GetRemoveLicenses()([]string) {
    return m.removeLicenses
}
// Serialize serializes information the current object
func (m *AssignLicensePostRequestBody) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetAddLicenses() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetAddLicenses())
        err := writer.WriteCollectionOfObjectValues("addLicenses", cast)
        if err != nil {
            return err
        }
    }
    if m.GetRemoveLicenses() != nil {
        err := writer.WriteCollectionOfStringValues("removeLicenses", m.GetRemoveLicenses())
        if err != nil {
            return err
        }
    }
}

```

```

    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignLicensePostRequestBody) SetAdditionalData(value map[string]interface{})() {
    m.additionalData = value
}
// SetAddLicenses sets the addLicenses property value. The addLicenses property
func (m *AssignLicensePostRequestBody) SetAddLicenses(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.AssignedLicenseable)() {
    m.addLicenses = value
}
// SetRemoveLicenses sets the removeLicenses property value. The removeLicenses property
func (m *AssignLicensePostRequestBody) SetRemoveLicenses(value []string)() {
    m.removeLicenses = value
}

```

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1.46 openshift installer 4.13

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package acmpca

import (

"fmt"

"log"

```

"strings"

"github.com/aws/aws-sdk-go/aws"
"github.com/aws/aws-sdk-go/service/acmpca"
"github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
"github.com/hashicorp/terraform-provider-aws/internal/conns"
"github.com/hashicorp/terraform-provider-aws/internal/flex"
"github.com/hashicorp/terraform-provider-aws/internal/tfresource"
"github.com/hashicorp/terraform-provider-aws/internal/verify"
)

```

```

func ResourcePermission() *schema.Resource {
return &schema.Resource{
Create: resourcePermissionCreate,
Read: resourcePermissionRead,
Delete: resourcePermissionDelete,

Schema: map[string]*schema.Schema{
"actions": {
Type: schema.TypeSet,
Required: true,
ForceNew: true,
Elem: &schema.Schema{
Type: schema.TypeString,
ValidateFunc: validation.StringInSlice(acmpca.ActionType_Values(),
false),
},
},
"certificate_authority_arn": {
Type: schema.TypeString,
ForceNew: true,
Required: true,
ValidateFunc: verify.ValidARN,
},
"policy": {
Type: schema.TypeString,
Computed: true,
},
"principal": {
Type: schema.TypeString,
ForceNew: true,
Required: true,
ValidateFunc: validation.StringInSlice([]string{
"acm.amazonaws.com",
}, false),
},
},
}

```

```

"source_account": {
  Type: schema.TypeString,
  ForceNew: true,
  Optional: true,
  Computed: true,
},
},
}
}

func resourcePermissionCreate(d *schema.ResourceData, meta interface{}) error {
  conn := meta.(*conns.AWSClient).ACMPCACConn

  caARN := d.Get("certificate_authority_arn).(string)
  principal := d.Get("principal).(string)
  sourceAccount := d.Get("source_account).(string)
  id := PermissionCreateResourceID(caARN, principal, sourceAccount)
  input := &acmpca.CreatePermissionInput{
    Actions:          flex.ExpandStringSet(d.Get("actions").(*schema.Set)),
    CertificateAuthorityArn:
      aws.String(caARN),
    Principal:        aws.String(principal),
  }

  if sourceAccount != "" {
    input.SourceAccount = aws.String(sourceAccount)
  }

  log.Printf("[DEBUG] Creating ACM PCA Permission: %s", input)
  _, err := conn.CreatePermission(input)

  if err != nil {
    return fmt.Errorf("creating ACM PCA Permission (%s): %w", id, err)
  }

  d.SetId(id)

  return resourcePermissionRead(d, meta)
}

func resourcePermissionRead(d *schema.ResourceData, meta interface{}) error {
  conn := meta.(*conns.AWSClient).ACMPCACConn

  caARN, principal, sourceAccount, err := PermissionParseResourceID(d.Id())

  if err != nil {
    return err
  }
}

```

```

permission, err := FindPermission(conn, caARN, principal, sourceAccount)

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] ACM PCA Permission (%s) not found, removing from state", d.Id())
    d.SetId("")
    return nil
}

if err != nil {
    return fmt.Errorf("reading
ACM PCA Permission (%s): %w", d.Id(), err)
}

d.Set("actions", aws.StringValueSlice(permission.Actions))
d.Set("certificate_authority_arn", permission.CertificateAuthorityArn)
d.Set("policy", permission.Policy)
d.Set("principal", permission.Principal)
d.Set("source_account", permission.SourceAccount)

return nil
}

func resourcePermissionDelete(d *schema.ResourceData, meta interface{}) error {
    conn := meta.(*conns.AWSClient).ACMPCACConn

    caARN, principal, sourceAccount, err := PermissionParseResourceID(d.Id())

    if err != nil {
        return err
    }

    input := &acmpca.DeletePermissionInput{
        CertificateAuthorityArn: aws.String(caARN),
        Principal:               aws.String(principal),
    }

    if sourceAccount != "" {
        input.SourceAccount = aws.String(sourceAccount)
    }

    log.Printf("[DEBUG] Deleting ACM PCA Permission: %s", d.Id())
    _, err = conn.DeletePermission(input)

    if tfawserr.ErrCodeEquals(err, acmpca.ErrCodeResourceNotFoundException) {
        return nil
    }
}

```

```

if err != nil {
    return
    fmt.Errorf("deleting ACM PCA Permission: %s", err)
}

return nil
}

const permissionIDSeparator = ","

func PermissionCreateResourceID(caARN, principal, sourceAccount string) string {
    parts := []string{caARN, principal, sourceAccount}
    id := strings.Join(parts, permissionIDSeparator)

    return id
}

func PermissionParseResourceID(id string) (string, string, string, error) {
    parts := strings.Split(id, permissionIDSeparator)

    if len(parts) == 3 && parts[0] != "" && parts[1] != "" {
        return parts[0], parts[1], parts[2], nil
    }

    return "", "", "", fmt.Errorf("unexpected format for ID (%[1]s), expected
CertificateAuthorityARN%[2]sPrincipal%[2]sSourceAccount", id, permissionIDSeparator)
}

```

goproperties - properties file decoder for Go

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseAssignmentStateCollectionResponse  
type LicenseAssignmentStateCollectionResponse struct {  
    BaseCollectionPaginationCountResponse  
    // The value property  
    value []LicenseAssignmentStateable  
}  
// NewLicenseAssignmentStateCollectionResponse instantiates a new LicenseAssignmentStateCollectionResponse  
and sets the default values.  
func NewLicenseAssignmentStateCollectionResponse>(*LicenseAssignmentStateCollectionResponse) {  
    m := &LicenseAssignmentStateCollectionResponse{  
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),  
    }  
    return m  
}  
// CreateLicenseAssignmentStateCollectionResponseFromDiscriminatorValue creates a new instance of the  
appropriate class based  
on discriminator value  
func CreateLicenseAssignmentStateCollectionResponseFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewLicenseAssignmentStateCollectionResponse(), nil  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *LicenseAssignmentStateCollectionResponse)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error)) {  
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()  
    res["value"] =  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateL  
icenseAssignmentStateFromDiscriminatorValue , m.SetValue)  
    return res  
}  
// GetValue gets the value property value. The value property  
func (m *LicenseAssignmentStateCollectionResponse) GetValue()([]LicenseAssignmentStateable)
```

```

{
    return m.value
}
// Serialize serializes information the current object
func (m *LicenseAssignmentStateCollectionResponse) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPagingCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *LicenseAssignmentStateCollectionResponse) SetValue(value []LicenseAssignmentStateable)() {
    m.value = value
}

```

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```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsable  
type LicenseDetailsable interface {  
    Entityable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetServicePlans()([]ServicePlanInfoable)  
    GetSkuId>(*string)  
    GetSkuPartNumber(*string)  
    SetServicePlans(value []ServicePlanInfoable())  
    SetSkuId(value *string())  
    SetSkuPartNumber(value *string())  
}
```

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```
package vsphere
```

```
import (  
    "log"
```

```
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
```

```
    "github.com/vmware/govmomi/license"
```

```
)
```

```
func dataSourceVSPHERELicense() *schema.Resource {
```

```
    return &schema.Resource{
```

```
        Read: dataSourceVSPHERELicenseRead,
```

```
        Schema: map[string]*schema.Schema{
```

```
            "license_key": {
```

```
                Type:     schema.TypeString,
```

```
                Required: true,
```

```
            },
```

```
        // computed properties returned by the API
```

```
            "id": {
```

```
                Type:     schema.TypeString,
```

```
                Computed: true,
```

```
            },
```

```
            "labels": {
```

```
                Type:     schema.TypeMap,
```

```
                Computed: true,
```

```
                Elem:     &schema.Schema{Type: schema.TypeString},
```

```
            },
```

```
            "edition_key": {
```

```
                Type:     schema.TypeString,
```

```

    Computed: true,
  },
  "name": {
    Type: schema.TypeString,
    Computed: true,
  },
  "total": {
    Type: schema.TypeInt,
    Computed: true,
  },
  "used": {
    Type: schema.TypeInt,
    Computed: true,
  },
},
}
}

```

```

func dataSourceVSphereLicenseRead(d
*schema.ResourceData, meta interface{ }) error {

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)
licenseKey := d.Get("license_key").(string)
if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
log.Println("[INFO] Setting the values")
d.Set("edition_key", info.EditionKey)
d.Set("total", info.Total)
d.Set("used", info.Used)
d.Set("name", info.Name)
if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
return err
}
d.SetId(licenseKey)
return nil
} else {
return ErrNoSuchKeyFound
}
}

```

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package assignlicense

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// AssignLicenseRequestBuilder provides operations to call the assignLicense method.  
type AssignLicenseRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query  
parameters, and  
middleware options.  
type AssignLicenseRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default  
values.  
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ  
estBuilder) {  
    m := &AssignLicenseRequestBuilder{  
    }  
    m.urlTemplate = "{+baseurl}/users/{user%2Did}/microsoft.graph.assignLicense";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters = urlTplParams;  
    m.requestAdapter = requestAdapter;
```

```

    return m
}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder
and sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation invoke action assignLicense
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post invoke action assignLicense
func (m *AssignLicenseRequestBuilder) Post(ctx context.Context, body AssignLicensePostRequestBodyable,
requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadc81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadc81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateUserFromDiscriminatorValue,

```

```

errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
package artifactory

```

```

import (
    "encoding/json"
)

```

```

type LicenseInformation struct {
    LicenseType string `json:"type"`
    ValidThrough string `json:"validThrough"`
    LicensedTo string `json:"licensedTo"`
}

```

```

func (c *ArtifactoryClient) GetLicenseInformation() (LicenseInformation, error) {
    o := make(map[string]string, 0)
    var l LicenseInformation
    d, e := c.Get("/api/system/license", o)
    if e != nil {
        return l, e
    } else {
        err := json.Unmarshal(d, &l)
        return l, err
    }
}

```

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// Code generated by go-swagger; DO NOT EDIT.

package models

// This file was generated by the swagger tool.

// Editing this file might prove futile when you re-run the swagger generate command

import (

"context"

"github.com/go-openapi/strfmt"

"github.com/go-openapi/swag"

)

// SoftwareLicenses software licenses

//

// swagger:model SoftwareLicenses

type SoftwareLicenses struct {

// IBMi Cloud Storage Solution

IbmiCSS *bool `json:"ibmiCSS,omitempty"`

// IBMi Cloud Storage Solution

IbmiDBQ *bool `json:"ibmiDBQ,omitempty"`

// IBMi Power High Availability

IbmiPHA *bool `json:"ibmiPHA,omitempty"`

// IBMi Rational Dev Studio

IbmiRDS *bool `json:"ibmiRDS,omitempty"`

// IBMi Rational Dev Studio Number of User Licenses

IbmiRDSUsers int64 `json:"ibmiRDSUsers,omitempty"`

}

```

// Validate validates this software licenses
func (m *SoftwareLicenses) Validate(formats strfmt.Registry) error {
    return nil
}

// ContextValidate validates this software licenses based on context it is used
func
(m *SoftwareLicenses) ContextValidate(ctx context.Context, formats strfmt.Registry) error {
    return nil
}

// MarshalBinary interface implementation
func (m *SoftwareLicenses) MarshalBinary() ([]byte, error) {
    if m == nil {
        return nil, nil
    }
    return swag.WriteJSON(m)
}

// UnmarshalBinary interface implementation
func (m *SoftwareLicenses) UnmarshalBinary(b []byte) error {
    var res SoftwareLicenses
    if err := swag.ReadJSON(b, &res); err != nil {
        return err
    }
    *m = res
    return nil
}
package models
import (
    "errors"
)
// Provides operations to manage the collection of agreement entities.
type EditionUpgradeLicenseType int

const (
    // Product Key Type
    PRODUCTKEY_EDITIONUPGRADELICENSETYPE EditionUpgradeLicenseType = iota
    // License File Type
    LICENSEFILE_EDITIONUPGRADELICENSETYPE
)

func (i EditionUpgradeLicenseType) String() string {
    return []string{"productKey", "licenseFile"}[i]
}
func ParseEditionUpgradeLicenseType(v string) (interface{ }, error) {
    result := PRODUCTKEY_EDITIONUPGRADELICENSETYPE
    switch v {

```

```

    case "productKey":
        result = PRODUCTKEY_EDITIONUPGRADELICENSESETYPE
    case "licenseFile":
        result = LICENSEFILE_EDITIONUPGRADELICENSESETYPE
    default:
        return 0, errors.New("Unknown EditionUpgradeLicenseType value: " + v)
}
return &result, nil
}
func SerializeEditionUpgradeLicenseType(values []EditionUpgradeLicenseType) []string {
    result := make([]string, len(values))
    for
    i, v := range values {
        result[i] = v.String()
    }
    return result
}

```

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package vsphere

```
import (
```

```
"log"
```

```
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
```

```
"github.com/vmware/govmomi/license"
```

```
)
```

```

func dataSourceVSphereLicense() *schema.Resource {
return &schema.Resource{
Read: dataSourceVSphereLicenseRead,

Schema: map[string]*schema.Schema{
"license_key": {
Type: schema.TypeString,
Required: true,
},

// computed properties returned by the API
"id": {
Type: schema.TypeString,
Computed: true,
},
"labels": {
Type: schema.TypeMap,
Computed: true,
Elem: &schema.Schema{Type: schema.TypeString},
},
"edition_key": {
Type: schema.TypeString,
Computed: true,
},
"name": {
Type: schema.TypeString,
Computed: true,
},
"total": {
Type: schema.TypeInt,
Computed: true,
},
"used": {
Type: schema.TypeInt,
Computed: true,
},
},
}
}

func dataSourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {

client
:= meta.(*Client).vimClient
manager := license.NewManager(client.Client)
licenseKey := d.Get("license_key").(string)
if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
log.Println("[INFO] Setting the values")
}
}
}

```

```

d.Set("edition_key", info.EditionKey)
d.Set("total", info.Total)
d.Set("used", info.Used)
d.Set("name", info.Name)
if err := d.Set("labels", keyValuesToMap(info.Labels)); err != nil {
    return err
}
d.SetId(licenseKey)
return nil
} else {
    return ErrNoSuchKeyFound
}
}
}
package memberswithlicenseerrors

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
    i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/group"
    i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/user"
    i44b96843de9edb7831feeb7753f66dad8edcd1bbfaea1ff3b97835638702ed8
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/device"
    i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/application"
    ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/orgcontact"
    ia742a37f75ffa85a15c52758b54a8cfbacdae12597cc38b77fd0f412aaa1e32 "github.com/microsoftgraph/msgraph-
sdk-go/groups/item/memberswithlicenseerrors/count"
    iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87
    "github.com/microsoftgraph/msgraph-sdk-go/groups/item/memberswithlicenseerrors/serviceprincipal"
)

// MembersWithLicenseErrorsRequestBuilder provides operations to manage the membersWithLicenseErrors
property of the microsoft.graph.group entity.
type MembersWithLicenseErrorsRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use

```

```

to build the URL for the current request builder
    urlTemplate string
}
// MembersWithLicenseErrorsRequestBuilderGetQueryParameters a list of group members with license errors from
this group-based license assignment. Read-only.
type MembersWithLicenseErrorsRequestBuilderGetQueryParameters struct {
    // Include count of items
    Count *bool `uriparametername:"%24count"`
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Filter items by property values
    Filter *string `uriparametername:"%24filter"`
    // Order items by property values
    Orderby []string `uriparametername:"%24orderby"`
    // Search items by search phrases
    Search *string `uriparametername:"%24search"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
    // Skip the first n items
    Skip *int32 `uriparametername:"%24skip"`
    // Show only the first n items
    Top *int32 `uriparametername:"%24top"`
}
// MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration
configuration for the request such as headers, query parameters, and middleware options.
type MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *MembersWithLicenseErrorsRequestBuilderGetQueryParameters
}
// Application casts the previous resource to application.
func (m *MembersWithLicenseErrorsRequestBuilder)
Application()(i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c.ApplicationRequestBui
lder) {
    return
i9eee8ca196107e21e220b940811218fe3f0c4bfce89d18b327b903b1f1fa451c.NewApplicationRequestBuilderIntern
al(m.pathParameters, m.requestAdapter);
}
// NewMembersWithLicenseErrorsRequestBuilderInternal instantiates a new
MembersWithLicenseErrorsRequestBuilder and sets the default values.
func
NewMembersWithLicenseErrorsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*MembersWithLicen
seErrorsRequestBuilder) {
    m := &MembersWithLicenseErrorsRequestBuilder{

```

```

    }
    m.urlTemplate =
"+baseurl}/groups/{group%2Did}/membersWithLicenseErrors{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewMembersWithLicenseErrorsRequestBuilder instantiates a new MembersWithLicenseErrorsRequestBuilder
and sets the default values.
func NewMembersWithLicenseErrorsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*MembersWithLicen
seErrorsRequestBuilder) {
    urlParams
:= make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewMembersWithLicenseErrorsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *MembersWithLicenseErrorsRequestBuilder)
Count(*ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32.CountRequestBuilder) {
    return
ia742a37f75ffa85a15c52758b54a8cfbacdcae12597cc38b77fd0f412aaa1e32.NewCountRequestBuilderInternal(m.pat
hParameters, m.requestAdapter);
}
// CreateGetRequestInformation a list of group members with license errors from this group-based license
assignment. Read-only.
func (m *MembersWithLicenseErrorsRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813a
b50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
}

```

```

    return requestInfo, nil
}
// Device casts the previous resource to device.
func (m *MembersWithLicenseErrorsRequestBuilder)
Device>(*i44b96843de9edb7831feeb7753f66dad8edcd1bbfaeea1ff3b97835638702ed8.DeviceRequestBuilder) {
    return
i44b96843de9edb7831feeb7753f66dad8edcd1bbfaeea1ff3b97835638702ed8.NewDeviceRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// Get
a list of group members with license errors from this group-based license assignment. Read-only.
func (m *MembersWithLicenseErrorsRequestBuilder) Get(ctx context.Context, requestConfiguration
*MembersWithLicenseErrorsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba1
7de0380ddd76f641a29edf2b242.DirectoryObjectCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.CreateDirectoryObjectCollectionResp
onseFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DirectoryObjectCollectionRespon
seable), nil
}
// Group casts the previous resource to group.
func (m *MembersWithLicenseErrorsRequestBuilder)
Group>(*i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169.GroupRequestBuilder) {
    return
i0dab4ab5d03cdb1e2bc2146c8f8f393369639cf2951df17099c75880b3405169.NewGroupRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}
// OrgContact casts the previous resource to orgContact.

```

```

func (m *MembersWithLicenseErrorsRequestBuilder)
OrgContact>(*ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216.OrgContactRequestBuilder) {
    return
ia0ddb948c0200f3efec2048b85c5e412b832549e67625f1bde2d7930f12a7216.NewOrgContactRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}
// ServicePrincipal
casts the previous resource to servicePrincipal.
func (m *MembersWithLicenseErrorsRequestBuilder)
ServicePrincipal(*iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87.ServicePrincipalRequestBuilder) {
    return
iddc54b8e85093999a061b74455c42139479196ec70c7ff2077c4332c3635da87.NewServicePrincipalRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}
// User casts the previous resource to user.
func (m *MembersWithLicenseErrorsRequestBuilder)
User(*i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba.UserRequestBuilder) {
    return
i38d5613daf6a74842f466cb5f7e1d5e1b49776cadcc1ccffe3f985c86669b1ba.NewUserRequestBuilderInternal(m.pathParameters, m.requestAdapter);
}

```

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Support for streaming Protocol Buffer messages for the Go language (golang).

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issues: <https://github.ibm.com/blueprint/security-project-management/issues>

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//WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
//See the License for the specific language governing permissions and
//limitations under the License.
//
// Code generated by Alibaba Cloud SDK Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
// LicenseAttribute is a nested struct in market response
```

```
type LicenseAttribute struct {
    Code string `json:"Code" xml:"Code"`
    Value string `json:"Value" xml:"Value"`
}
```

```
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```

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package reprocesslicenseassignment

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// ReprocessLicenseAssignmentRequestBuilder provides operations to call the reprocessLicenseAssignment method.  
type ReprocessLicenseAssignmentRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.
```

```

requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
// Url template to use to build the URL for the current request builder
urlTemplate string
}
// ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration configuration
for the request such as headers, query parameters, and middleware options.
type ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewReprocessLicenseAssignmentRequestBuilderInternal instantiates a new
ReprocessLicenseAssignmentRequestBuilder and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    m := &ReprocessLicenseAssignmentRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/users/{user%2Did}/microsoft.graph.reprocessLicenseAssignment";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters
= urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewReprocessLicenseAssignmentRequestBuilder instantiates a new ReprocessLicenseAssignmentRequestBuilder
and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewReprocessLicenseAssignmentRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation reprocess all group-based license assignments for the user. To learn more about
group-based licensing, see What is group-based licensing in Azure Active Directory. Also see Identify and resolve
license assignment problems for a group in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) CreatePostRequestInformation(ctx context.Context,
requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df63981
3ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate

```

```

requestInfo.PathParameters = m.pathParameters
requestInfo.Method = i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
requestInfo.Headers["Accept"] = "application/json"
if requestConfiguration != nil {
    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Post reprocess all group-based license assignments for the user. To learn more about group-based licensing, see
What is group-based licensing in Azure Active Directory. Also see Identify and resolve license assignment problems
for a group
in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) Post(ctx context.Context, requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bb
a17de0380ddda76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
package licensemanager

import (
    "context"
    "log"
    "regexp"

    "github.com/aws/aws-sdk-go/aws"
    "github.com/aws/aws-sdk-go/service/licensemanager"

```

```

"github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
"github.com/hashicorp/terraform-plugin-sdk/v2/diag"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
"github.com/hashicorp/terraform-provider-aws/internal/conns"
"github.com/hashicorp/terraform-provider-aws/internal/flex"
tftags "github.com/hashicorp/terraform-provider-aws/internal/tags"
"github.com/hashicorp/terraform-provider-aws/internal/tfresource"
"github.com/hashicorp/terraform-provider-aws/internal/verify"
)

```

```

func ResourceLicenseConfiguration() *schema.Resource {
    return &schema.Resource{
        CreateWithoutTimeout: resourceLicenseConfigurationCreate,
        ReadWithoutTimeout:  resourceLicenseConfigurationRead,
        UpdateWithoutTimeout:
            resourceLicenseConfigurationUpdate,
        DeleteWithoutTimeout: resourceLicenseConfigurationDelete,

        Importer: &schema.ResourceImporter{
            State: schema.ImportStatePassthrough,
        },

        Schema: map[string]*schema.Schema{
            "arn": {
                Type: schema.TypeString,
                Computed: true,
            },
            "description": {
                Type: schema.TypeString,
                Optional: true,
            },
            "license_count": {
                Type: schema.TypeInt,
                Optional: true,
            },
            "license_count_hard_limit": {
                Type: schema.TypeBool,
                Optional: true,
                Default: false,
            },
            "license_counting_type": {
                Type: schema.TypeString,
                Required: true,
                ForceNew: true,
                ValidateFunc: validation.StringInSlice(licensemanager.LicenseCountingType_Values(), false),
            },
        },
    }
}

```

```

"license_rules": {
  Type: schema.TypeList,
  Optional: true,
  ForceNew: true,
  Elem: &schema.Schema{
    Type: schema.TypeString,
    ValidateFunc: validation.StringMatch(regex.MustCompile("^#[^=]+=([.+]$"),
"Expected format is #RuleType=RuleValue"),
  },
},
"name": {
  Type: schema.TypeString,
  Required: true,
},
"owner_account_id": {
  Type: schema.TypeString,
  Computed: true,
},
"tags": tftags.TagsSchema(),
"tags_all": tftags.TagsSchemaComputed(),
},

CustomizeDiff: verify.SetTagsDiff,
}
}

```

```

func resourceLicenseConfigurationCreate(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
  conn := meta.(*conns.AWSCClient).LicenseManagerConn
  defaultTagsConfig := meta.(*conns.AWSCClient).DefaultTagsConfig
  tags := defaultTagsConfig.MergeTags(tftags.New(d.Get("tags").(map[string]interface{})))

  name := d.Get("name").(string)
  input := &licensemanager.CreateLicenseConfigurationInput{
    LicenseCountingType: aws.String(d.Get("license_counting_type").(string)),
    Name: aws.String(name),
  }

  if v, ok := d.GetOk("description"); ok {
    input.Description = aws.String(v.(string))
  }

  if v, ok :=
d.GetOk("license_count"); ok {
    input.LicenseCount = aws.Int64(int64(v.(int)))
  }

  if v, ok := d.GetOk("license_count_hard_limit"); ok {

```

```

input.LicenseCountHardLimit = aws.Bool(v.(bool))
}

if v, ok := d.GetOk("license_rules"); ok && len(v.([]interface{})) > 0 {
input.LicenseRules = flex.ExpandStringList(v.([]interface{}))
}

if len(tags) > 0 {
input.Tags = Tags(tags.IgnoreAWS())
}

log.Printf("[DEBUG] Creating License Manager License Configuration: %s", input)
resp, err := conn.CreateLicenseConfigurationWithContext(ctx, input)

if err != nil {
return diag.Errorf("creating License Manager License Configuration (%s): %s", name, err)
}

d.SetId(aws.StringValue(resp.LicenseConfigurationArn))

return resourceLicenseConfigurationRead(ctx, d, meta)
}

func resourceLicenseConfigurationRead(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
conn := meta.(*conns.AWSClient).LicenseManagerConn
defaultTagsConfig := meta.(*conns.AWSClient).DefaultTagsConfig
ignoreTagsConfig
:= meta.(*conns.AWSClient).IgnoreTagsConfig

output, err := FindLicenseConfigurationByARN(ctx, conn, d.Id())

if !d.IsNewResource() && tfresource.NotFound(err) {
log.Printf("[WARN] License Manager License Configuration %s not found, removing from state", d.Id())
d.SetId("")
return nil
}

if err != nil {
return diag.Errorf("reading License Manager License Configuration (%s): %s", d.Id(), err)
}

d.Set("arn", output.LicenseConfigurationArn)
d.Set("description", output.Description)
d.Set("license_count", output.LicenseCount)
d.Set("license_count_hard_limit", output.LicenseCountHardLimit)
d.Set("license_counting_type", output.LicenseCountingType)
d.Set("license_rules", aws.StringValueSlice(output.LicenseRules))

```

```

d.Set("name", output.Name)
d.Set("owner_account_id", output.OwnerAccountId)

tags := KeyValueTags(output.Tags).IgnoreAWS().IgnoreConfig(ignoreTagsConfig)

//lintignore:AWSR002
if err := d.Set("tags", tags.RemoveDefaultConfig(defaultTagsConfig).Map());
err != nil {
    return diag.Errorf("setting tags: %s", err)
}

if err := d.Set("tags_all", tags.Map()); err != nil {
    return diag.Errorf("setting tags_all: %s", err)
}

return nil
}

func resourceLicenseConfigurationUpdate(ctx context.Context, d *schema.ResourceData, meta interface{ })
diag.Diagnostics {
    conn := meta.(*conns.AWSCClient).LicenseManagerConn

    if d.HasChangesExcept("tags", "tags_all") {
        input := &licensemanager.UpdateLicenseConfigurationInput{
            Description:      aws.String(d.Get("description").(string)),
            LicenseConfigurationArn: aws.String(d.Id()),
            LicenseCountHardLimit: aws.Bool(d.Get("license_count_hard_limit").(bool)),
            Name:              aws.String(d.Get("name").(string)),
        }

        if v, ok := d.GetOk("license_count"); ok {
            input.LicenseCount = aws.Int64(int64(v.(int)))
        }

        log.Printf("[DEBUG] Updating License Manager License Configuration: %s", input)
        _, err := conn.UpdateLicenseConfigurationWithContext(ctx,
            input)

        if err != nil {
            return diag.Errorf("updating License Manager License Configuration (%s): %s", d.Id(), err)
        }
    }

    if d.HasChange("tags_all") {
        o, n := d.GetChange("tags_all")

        if err := UpdateTagsWithContext(ctx, conn, d.Id(), o, n); err != nil {
            return diag.Errorf("updating License Manager License Configuration (%s) tags: %s", d.Id(), err)
        }
    }
}

```

```

    }
    }

    return resourceLicenseConfigurationRead(ctx, d, meta)
}

func resourceLicenseConfigurationDelete(ctx context.Context, d *schema.ResourceData, meta interface{})
diag.Diagnostics {
    conn := meta.(*conns.AWSClient).LicenseManagerConn

    log.Printf("[DEBUG] Deleting License Manager License Configuration: %s", d.Id())
    _, err := conn.DeleteLicenseConfigurationWithContext(ctx, &licensemanager.DeleteLicenseConfigurationInput{
        LicenseConfigurationArn: aws.String(d.Id()),
    })

    if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeInvalidParameterValueException) {
        return nil
    }

    if err != nil {
        return diag.Errorf("deleting
        License Manager License Configuration (%s): %s", d.Id(), err)
    }

    return nil
}

func FindLicenseConfigurationByARN(ctx context.Context, conn *licensemanager.LicenseManager, arn string)
(*licensemanager.GetLicenseConfigurationOutput, error) {
    input := &licensemanager.GetLicenseConfigurationInput{
        LicenseConfigurationArn: aws.String(arn),
    }

    output, err := conn.GetLicenseConfigurationWithContext(ctx, input)

    if tfawserr.ErrCodeEquals(err, licensemanager.ErrCodeInvalidParameterValueException) {
        return nil, &resource.NotFoundError{
            LastError: err,
            LastRequest: input,
        }
    }

    if err != nil {
        return nil, err
    }

    if output == nil {
        return nil, tfresource.NewEmptyResultError(input)
    }
}

```

}

return output, nil

}

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sshkeys

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schemaVersion: oss-license-declaration.cloud.ibm.com:v4

name: bluemix-go

source: <https://github.com/IBM-Cloud/bluemix-go>

issues: <https://github.ibm.com/blueprint/schematics-compliance/issues>

objectCodeOnly: false

additionalDownloads:

include:

- go modules

exclude:

- name: glide

documentation: Package manager not invoked in build nor runtime use

- name: nodejs

documentation: Package manager not invoked in build nor runtime use

- name: yarn

documentation: Package manager not invoked in build nor runtime use

dependencies:

- name: github.com/BurntSushi/toml

version: v0.3.1

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- MIT

- name: github.com/asaskevich/govalidator

version: v0.0.0-20200907205600-7a23bdc65eef

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- name: github.com/aws/aws-sdk-go

version: v1.34.28

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- name: github.com/creack/pty

version: v1.1.9

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- name: github.com/davecgh/go-spew

version: v1.1.1
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- name: github.com/fsnotify/fsnotify
version: v1.4.9
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version: v1.0.0
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version: v0.0.0-20210107165309-348f09dbbbc0
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version: v2.2.0
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version: v0.0.0-20190224160051-33c29581e754
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- name: github.com/golang/protobuf
version: v1.5.2
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- name: github.com/golang/snappy
version: v0.0.1
licenses:
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- name: github.com/google/go-cmp

version: v0.5.5

- name: github.com/google/uuid
version: v1.1.1
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- name: github.com/hpcloud/tail

version: v1.0.0
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version: v1.0.0
- name: github.com/jmespath/go-jmespath
version: v0.4.0
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version: v1.3.0
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version: v1.10.3
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version: v1.9.5
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version: v0.2.0
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- name: github.com/markbates/safe
version: v1.0.1
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- name: github.com/mitchellh/mapstructure
version: v1.3.3
- name: github.com/montanaflynn/stats
version: v0.0.0-20171201202039-1bf9dbcd8cbe
licenses:
- MIT
- name: github.com/niemeyer/pretty

version: v0.0.0-20200227124842-a10e7caefd8e
- name: github.com/nxadm/tail
version: v1.4.8
licenses:
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- name: github.com/onsi/ginkgo
version: v1.16.4
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version: v1.14.0
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version: v1.7.0
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version: v0.9.1
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version: v1.0.0
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version: v1.3.0
- name: github.com/sirupsen/logrus
version: v1.4.2
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version: v1.6.1
- name: github.com/tidwall/pretty
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version: v0.0.0-20180814205039-7eeb5667e42c
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- name: github.com/xdg/stringprep
version: v0.0.0-20180714160509-73f8eece6fdc
- name: github.com/yuin/goldmark
version: v1.2.1
licenses:
- MIT
- name: go.mongodb.org/mongo-driver
version: v1.4.3
licenses:
- Apache-2.0
- name: golang.org/x/crypto
version: v0.0.0-20200622213623-75b288015ac9
- name: golang.org/x/mod
version: v0.3.0
- name: golang.org/x/net
version: v0.0.0-20210614182718-04defd469f4e
licenses:
- BSD-3-Clause
- name: golang.org/x/sync

version: v0.0.0-20201020160332-67f06af15bc9
- name: golang.org/x/sys
version: v0.0.0-20210423082822-04245dca01da
- name: golang.org/x/term
version: v0.0.0-20201126162022-7de9c90e9dd1
licenses:
- BSD-3-Clause
- name: golang.org/x/text
version: v0.3.6
- name: golang.org/x/tools
version: v0.0.0-20201224043029-2b0845dc783e
licenses:
- BSD-3-Clause
- name: golang.org/x/xerrors
version: v0.0.0-20200804184101-5ec99f83aff1
- name: google.golang.org/protobuf
version: v1.26.0
- name: gopkg.in/check.v1
version: v1.0.0-20200227125254-8fa46927fb4f
licenses:
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- name: gopkg.in/errgo.v2
version: v2.1.0
licenses:
- BSD-3-Clause
- name: gopkg.in/fsnotify.v1
version: v1.4.7

- name: gopkg.in/tomb.v1
version: v1.0.0-20141024135613-dd632973f1e7
licenses:
- BSD-3-Clause
- name: gopkg.in/yaml.v2
version: v2.4.0
- name: gopkg.in/yaml.v3
version: v3.0.0-20200605160147-a5ece683394c

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetails provides operations to manage the collection of agreement entities.
```

```
type LicenseDetails struct {
```

```
    Entity
```

```
    // Information about the service plans assigned with the license. Read-only, Not nullable  
    servicePlans []ServicePlanInfoable
```

```
    // Unique identifier (GUID) for the service SKU. Equal to the skuId property on the related SubscribedSku object.
```

```

Read-only
    skuId *string
    // Unique SKU display name. Equal to the skuPartNumber on the related SubscribedSku object; for example:
'AAD_Premium'. Read-only
    skuPartNumber *string
}
// NewLicenseDetails instantiates a new licenseDetails and sets the default values.
func NewLicenseDetails(*LicenseDetails) {
    m := &LicenseDetails{

Entity: *NewEntity(),
    }
    return m
}
// CreateLicenseDetailsFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseDetailsFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseDetails(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseDetails)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.Entity.GetFieldDeserializers()
    res["servicePlans"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateS
ervicePlanInfoFromDiscriminatorValue , m.SetServicePlans)
    res["skuId"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)

    res["skuPartNumber"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuPartNumber)
    return res
}
// GetServicePlans gets the servicePlans property value. Information about the service plans assigned with the
license. Read-only, Not nullable
func (m *LicenseDetails) GetServicePlans()([]ServicePlanInfoable) {
    return m.servicePlans
}
// GetSkuId gets the skuId property value. Unique identifier (GUID) for the service SKU. Equal to the skuId
property on the related SubscribedSku object. Read-only
func (m *LicenseDetails) GetSkuId()*string {
    return m.skuId
}
// GetSkuPartNumber gets the skuPartNumber property value. Unique SKU display name. Equal to the
skuPartNumber on the related SubscribedSku object; for example: 'AAD_Premium'. Read-only

```

```

func (m *LicenseDetails) GetSkuPartNumber>(*string) {
    return m.skuPartNumber
}
// Serialize serializes information the current object
func (m *LicenseDetails) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error)
{
    err := m.Entity.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetServicePlans() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetServicePlans())
        err = writer.WriteCollectionOfObjectValues("servicePlans", cast)
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteStringValue("skuId", m.GetSkuId())
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteStringValue("skuPartNumber", m.GetSkuPartNumber())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetServicePlans sets the servicePlans property value. Information about the service plans assigned with the
license. Read-only, Not nullable
func (m *LicenseDetails) SetServicePlans(value
[]ServicePlanInfoable) {
    m.servicePlans = value
}
// SetSkuId sets the skuId property value. Unique identifier (GUID) for the service SKU. Equal to the skuId property
on the related SubscribedSku object. Read-only
func (m *LicenseDetails) SetSkuId(value *string) {
    m.skuId = value
}
// SetSkuPartNumber sets the skuPartNumber property value. Unique SKU display name. Equal to the
skuPartNumber on the related SubscribedSku object; for example: 'AAD_Premium'. Read-only
func (m *LicenseDetails) SetSkuPartNumber(value *string) {

```

```
m.skuPartNumber = value
}
```

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package grant

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadc81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantPostRequestBodyable  
type GrantPostRequestBodyable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetRecipients()([]iadc81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)  
    GetRoles()([]string)  
    SetRecipients(value  
    []iadc81124412c61e647227ecfc4449d8bba17de0380ddd76f641a29edf2b242.DriveRecipientable)()  
    SetRoles(value []string)()
```

```
}
/*
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```

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```

package simulator

```
import (
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:      "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
```

```

Value: types.KeyValue{
  Key: "serialuri:2",
  Value: "Remote virtual Serial Port Concentrator",
},
},
{
  Key: "feature",
  Value: types.KeyValue{
    Key: "dvs",
    Value: "vSphere Distributed Switch",
  },
},
},
}

type LicenseManager struct {
  mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if
  r.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels: req.Labels,
  })

  body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
}

```

```

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{ },
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
return body
}
}
return
body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{}

for i := range m.Licenses {
license := &m.Licenses[i]

if req.LicenseKey != license.LicenseKey {
continue
}

body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
label := &license.Labels[j]

if label.Key == req.LabelKey {
if req.LabelValue == "" {
license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
} else {
label.Value = req.LabelValue
}
}
return body
}
}

license.Labels = append(license.Labels, types.KeyValue{
Key: req.LabelKey,
Value: req.LabelValue,
})
}

```

```

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

```

}

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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package synclicenses

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// SyncLicensesRequestBuilder provides operations to call the syncLicenses method.  
type SyncLicensesRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// SyncLicensesRequestBuilderPostRequestConfiguration configuration for the request such as headers, query  
parameters, and middleware  
options.  
type SyncLicensesRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewSyncLicensesRequestBuilderInternal instantiates a new SyncLicensesRequestBuilder and sets the default  
values.  
func NewSyncLicensesRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*SyncLicensesReque  
stBuilder) {  
    m := &SyncLicensesRequestBuilder{  
    }  
    m.urlTemplate =  
    "{+baseurl}/deviceAppManagement/vppTokens/{vppToken%2Did}/microsoft.graph.syncLicenses";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
    m.pathParameters = urlTplParams;  
}
```

```

    m.requestAdapter = requestAdapter;
    return m
}
// NewSyncLicensesRequestBuilder instantiates a new SyncLicensesRequestBuilder
and sets the default values.
func NewSyncLicensesRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*SyncLicensesReque
stBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewSyncLicensesRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation syncs licenses associated with a specific appleVolumePurchaseProgramToken
func (m *SyncLicensesRequestBuilder) CreatePostRequestInformation(ctx context.Context, requestConfiguration
*SyncLicensesRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post syncs licenses associated with a specific appleVolumePurchaseProgramToken
func (m *SyncLicensesRequestBuilder) Post(ctx context.Context, requestConfiguration
*SyncLicensesRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda
76f641a29edf2b242.VppTokenable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateVppTokenFromDiscriminatorV
alue, errorMapping)
    if err != nil {

```

```
    return nil, err
}
if res == nil {
    return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.VppTokenable), nil
}
Copyright (C) 2011 by Krzysztof Kowalik <chris@nu7hat.ch>
```

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package grafana

```
import (
    "fmt"
```

```

"log"
"time"

"github.com/aws/aws-sdk-go/aws"
"github.com/aws/aws-sdk-go/service/managedgrafana"
"github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"
"github.com/hashicorp/terraform-provider-aws/internal/conns"
"github.com/hashicorp/terraform-provider-aws/internal/tfresource"
)

func ResourceLicenseAssociation() *schema.Resource {
return &schema.Resource{
Create: resourceLicenseAssociationCreate,
Read: resourceLicenseAssociationRead,
Delete: resourceLicenseAssociationDelete,

Importer: &schema.ResourceImporter{
State: schema.ImportStatePassthrough,
},

Timeouts: &schema.ResourceTimeout{
Create: schema.DefaultTimeout(10 * time.Minute),
Delete: schema.DefaultTimeout(10 * time.Minute),
},

Schema: map[string]*schema.Schema{
"free_trial_expiration": {
Type: schema.TypeString,
Computed:
true,
},
"license_expiration": {
Type: schema.TypeString,
Computed: true,
},
"license_type": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
ValidateFunc: validation.StringInSlice(managedgrafana.LicenseType_Values(), false),
},
"workspace_id": {
Type: schema.TypeString,
Required: true,
ForceNew: true,
},
},
}
}

```

```

    },
  }
}

func resourceLicenseAssociationCreate(d *schema.ResourceData, meta interface{ }) error {
    conn := meta.(*conns.AWSCClient).GrafanaConn

    input := &managedgrafana.AssociateLicenseInput{
        LicenseType: aws.String(d.Get("license_type").(string)),
        WorkspaceId: aws.String(d.Get("workspace_id").(string)),
    }

    log.Printf("[DEBUG] Creating Grafana License Association: %s", input)
    output, err := conn.AssociateLicense(input)

    if err != nil {
        return fmt.Errorf("error creating Grafana License Association: %w", err)
    }

    d.SetId(aws.StringValue(output.Workspace.Id))

    if _, err
    := waitLicenseAssociationCreated(conn, d.Id(), d.Timeout(schema.TimeoutCreate)); err != nil {
        return fmt.Errorf("error waiting for Grafana License Association (%s) create: %w", d.Id(), err)
    }

    return resourceLicenseAssociationRead(d, meta)
}

func resourceLicenseAssociationRead(d *schema.ResourceData, meta interface{ }) error {
    conn := meta.(*conns.AWSCClient).GrafanaConn

    workspace, err := FindLicensedWorkspaceByID(conn, d.Id())

    if tfresource.NotFound(err) && !d.IsNewResource() {
        log.Printf("[WARN] Grafana License Association (%s) not found, removing from state", d.Id())
        d.SetId("")
        return nil
    }

    if err != nil {
        return fmt.Errorf("error reading Grafana License Association (%s): %w", d.Id(), err)
    }

    if workspace.FreeTrialExpiration != nil {
        d.Set("free_trial_expiration", workspace.FreeTrialExpiration.Format(time.RFC3339))
    } else {
        d.Set("free_trial_expiration", nil)
    }
}

```

```

}
if workspace.LicenseExpiration != nil {
    d.Set("license_expiration", workspace.LicenseExpiration.Format(time.RFC3339))
}
else {
    d.Set("license_expiration", nil)
}
d.Set("license_type", workspace.LicenseType)

return nil
}

func resourceLicenseAssociationDelete(d *schema.ResourceData, meta interface{ }) error {
    conn := meta.(*conns.AWSClient).GrafanaConn

    log.Printf("[DEBUG] Deleting Grafana License Association: %s", d.Id())
    _, err := conn.DisassociateLicense(&managedgrafana.DisassociateLicenseInput{
        LicenseType: aws.String(d.Get("license_type").(string)),
        WorkspaceId: aws.String(d.Id()),
    })

    if tfawserr.ErrCodeEquals(err, managedgrafana.ErrCodeResourceNotFoundException) {
        return nil
    }

    if err != nil {
        return fmt.Errorf("error deleting Grafana License Association (%s): %w", d.Id(), err)
    }

    if _, err := waitWorkspaceUpdated(conn, d.Id(), d.Timeout(schema.TimeoutDelete)); err != nil {
        return fmt.Errorf("error waiting for Grafana License Association (%s) delete: %w", d.Id(), err)
    }

    return nil
}

```

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package item

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// LicenseDetailsItemRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.  
type LicenseDetailsItemRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
// LicenseDetailsItemRequestBuilderDeleteRequestConfiguration configuration for the  
request such as headers, query parameters, and middleware options.  
type LicenseDetailsItemRequestBuilderDeleteRequestConfiguration struct {  
    // Request headers
```

```

Headers map[string]string
// Request options
Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// LicenseDetailsItemRequestBuilderGetQueryParameters a collection of this user's license details. Read-only.
type LicenseDetailsItemRequestBuilderGetQueryParameters struct {
// Expand related entities
Expand []string `uriparametername:"%24expand"`
// Select properties to be returned
Select []string `uriparametername:"%24select"`
}
// LicenseDetailsItemRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderGetRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
// Request query parameters
QueryParameters *LicenseDetailsItemRequestBuilderGetQueryParameters
}
// LicenseDetailsItemRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderPatchRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsItemRequestBuilderInternal instantiates a new LicenseDetailsItemRequestBuilder and sets the
default values.
func NewLicenseDetailsItemRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
m := &LicenseDetailsItemRequestBuilder{
}
m.urlTemplate = "{+baseUrl}/me/licenseDetails/{licenseDetails%2Did}{?%24select,%24expand}";
urlTplParams := make(map[string]string)
for idx, item := range pathParameters {
urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewLicenseDetailsItemRequestBuilder instantiates a new LicenseDetailsItemRequestBuilder and sets the default
values.
func NewLicenseDetailsItemRequestBuilder(rawUrl string, requestAdapter

```

```

i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewLicenseDetailsItemRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property licenseDetails for me
func (m *LicenseDetailsItemRequestBuilder) CreateDeleteRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52
9013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property licenseDetails in me
func (m *LicenseDetailsItemRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa

```

```

529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Delete delete navigation property licenseDetails for me
func (m *LicenseDetailsItemRequestBuilder) Delete(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(error) {
    requestInfo,
    err := m.CreateDeleteRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(iadc81124412c61e647227ecfc4449d8bba17de0380
ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator

```

```

Value,
  "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}
// Patch update the navigation property licenseDetails in me
func (m *LicenseDetailsItemRequestBuilder) Patch(ctx context.Context, body
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(iaacd81124412c61e647227ecfc4449d8bba17de03
80dda76f641a29edf2b242.LicenseDetailsable, error) {
  requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
  if err != nil {
    return nil, err
  }
  errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable),
nil
}

```

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Go-Azure-SDK

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package opsworks

```
import (  
    "log"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/aws/awsserr"  
    "github.com/aws/aws-sdk-go/service/opsworks"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawsserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
)  
  
func ResourcePermission() *schema.Resource {  
    return &schema.Resource{  
        Create: resourceSetPermission,  
        Update: resourceSetPermission,  
        Delete: resourcePermissionDelete,  
        Read: resourcePermissionRead,  
    }  
}
```

```

Schema: map[string]*schema.Schema{
    "allow_ssh": {
        Type: schema.TypeBool,
        Computed: true,
        Optional: true,
    },
    "allow_sudo": {
        Type: schema.TypeBool,
        Computed: true,
        Optional: true,
    },
    "user_arn": {
        Type:
            schema.TypeString,
        Required: true,
    },
    "level": {
        Type: schema.TypeString,
        Computed: true,
        Optional: true,
        ValidateFunc: validation.StringInSlice([]string{
            "deny",
            "show",
            "deploy",
            "manage",
            "iam_only",
        }, false),
    },
    "stack_id": {
        Type: schema.TypeString,
        Computed: true,
        Optional: true,
    },
}
}

```

```

func resourcePermissionDelete(d *schema.ResourceData, meta interface{ }) error {
    return nil
}

```

```

func resourcePermissionRead(d *schema.ResourceData, meta interface{ }) error {
    client := meta.(*conns.AWSClient).OpsWorksConn

```

```

    req := &opsworks.DescribePermissionsInput{
        IamUserArn: aws.String(d.Get("user_arn").(string)),
        StackId:    aws.String(d.Get("stack_id").(string)),
    }

```

```

}

log.Printf("[DEBUG] Reading OpsWorks permissions for: %s on stack: %s", d.Get("user_arn"), d.Get("stack_id"))

resp, err := client.DescribePermissions(req)
if err != nil {
    if awserr, ok := err.(awserr.Error); ok {
        if awserr.Code()
        == "ResourceNotFoundException" {
            log.Printf("[INFO] Permission not found")
            d.SetId("")
            return nil
        }
    }
    return err
}

found := false
id := ""
for _, permission := range resp.Permissions {
    id = *permission.IamUserArn + *permission.StackId

    if d.Get("user_arn").(string)+d.Get("stack_id").(string) == id {
        found = true
        d.SetId(id)
        d.Set("allow_ssh", permission.AllowSsh)
        d.Set("allow_sudo", permission.AllowSudo)
        d.Set("user_arn", permission.IamUserArn)
        d.Set("stack_id", permission.StackId)
        d.Set("level", permission.Level)
    }
}

if !found {
    d.SetId("")
    log.Printf("[INFO] The correct permission could not be found for: %s on stack: %s", d.Get("user_arn"),
d.Get("stack_id"))
}

return nil
}

func resourceSetPermission(d *schema.ResourceData, meta interface{ }) error {
    client := meta.(*conns.AWSClient).OpsWorksConn

    req := &opsworks.SetPermissionInput{
        AllowSudo: aws.Bool(d.Get("allow_sudo").(bool)),

```

```

AllowSsh: aws.Bool(d.Get("allow_ssh).(bool)),
IamUserArn:
aws.String(d.Get("user_arn).(string)),
StackId: aws.String(d.Get("stack_id).(string)),
}

if d.HasChange("level") {
req.Level = aws.String(d.Get("level).(string))
}

err := resource.Retry(propagationTimeout, func() *resource.RetryError {
_, err := client.SetPermission(req)
if err != nil {

if tfawserr.ErrMessageContains(err, opsworks.ErrCodeResourceNotFoundException, "Unable to find user with
ARN") {
return resource.RetryableError(err)
}
return resource.NonRetryableError(err)
}
return nil
})

if tfresource.TimedOut(err) {
_, err = client.SetPermission(req)
}

if err != nil {
return err
}

return resourcePermissionRead(d, meta)
}

```

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* github.com/BurntSushi/toml - <https://github.com/BurntSushi/toml>

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match.go, match_test.go:

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* [golang.org/x/mod/module](https://github.com/golang/mod) - <https://github.com/golang/mod>

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* [golang.org/x/tools/go/analysis](https://github.com/golang/tools) - <https://github.com/golang/tools>

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* gogrep - <https://github.com/mvdan/gogrep>

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* gosmith - <https://github.com/dvyukov/gosmith>

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package market

```
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//limitations under the License.  
//  
// Code generated by Alibaba Cloud SDK Code Generator.  
// Changes may cause incorrect behavior and will be lost if the code is regenerated.  
  
import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"  
)
```

```

// ActivateLicense invokes the market.ActivateLicense API synchronously
// api document: https://help.aliyun.com/api/market/activatelicence.html
func (client *Client) ActivateLicense(request
*ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
response = CreateActivateLicenseResponse()
err = client.DoAction(request, response)
return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicence.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan
*ActivateLicenseResponse, <-chan error) {
responseChan := make(chan *ActivateLicenseResponse, 1)
errChan := make(chan error, 1)
err := client.AddAsyncTask(func() {
defer close(responseChan)
defer close(errChan)
response, err := client.ActivateLicense(request)
if err != nil {
errChan <- err
} else {
responseChan <- response
}
})
if err != nil {
errChan <- err
close(responseChan)
close(errChan)
}
return responseChan, errChan
}

// ActivateLicenseWithCallback invokes
the market.ActivateLicense API asynchronously
// api document: https://help.aliyun.com/api/market/activatelicence.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response
*ActivateLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *ActivateLicenseResponse
var err error
defer close(result)
response, err = client.ActivateLicense(request)
callback(response, err)
})
return result
}

```

```

    result <- 1
  })
  if err != nil {
    defer close(result)
    callback(nil, err)
    result <- 0
  }
  return result
}

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
  *requests.RpcRequest
  Identification string `position:"Query" name:"Identification"`
  LicenseCode   string `position:"Query" name:"LicenseCode"`
}

// ActivateLicenseResponse is the response struct for
api ActivateLicense
type ActivateLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"`
  Success   bool  `json:"Success" xml:"Success"`
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
  request = &ActivateLicenseRequest{
    RpcRequest: &requests.RpcRequest{ },
  }
  request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
  return
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
  response = &ActivateLicenseResponse{
    BaseResponse: &responses.BaseResponse{ },
  }
  return
}

```

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```
package spec
```

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
```

```
    Name string `json:"name,omitempty"`
```

```
    URL string `json:"url,omitempty"`
```

```
}
```

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package reprocesslicenseassignment

```
import (  
    "context"  
    i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// ReprocessLicenseAssignmentRequestBuilder provides operations to call the reprocessLicenseAssignment method.  
type ReprocessLicenseAssignmentRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration configuration  
for the request such as headers, query parameters, and middleware options.  
type ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewReprocessLicenseAssignmentRequestBuilderInternal instantiates a new  
ReprocessLicenseAssignmentRequestBuilder and sets the default values.  
func NewReprocessLicenseAssignmentRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA  
ssignmentRequestBuilder) {  
    m := &ReprocessLicenseAssignmentRequestBuilder{  
    }  
    m.urlTemplate = "{+baseurl}/me/microsoft.graph.reprocessLicenseAssignment";  
    urlTplParams := make(map[string]string)  
    for idx, item := range pathParameters {  
        urlTplParams[idx] = item  
    }  
}
```

```

    m.pathParameters
= urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewReprocessLicenseAssignmentRequestBuilder instantiates a new ReprocessLicenseAssignmentRequestBuilder
and sets the default values.
func NewReprocessLicenseAssignmentRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*ReprocessLicenseA
ssignmentRequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewReprocessLicenseAssignmentRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation reprocess all group-based license assignments for the user. To learn more about
group-based licensing, see What is group-based licensing in Azure Active Directory. Also see Identify and resolve
license assignment problems for a group in Azure Active Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) CreatePostRequestInformation(ctx context.Context,
requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df63981
3ab50ffa529013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post reprocess all group-based license assignments for the user. To learn more about group-based licensing, see
What is group-based licensing in Azure Active Directory. Also see Identify and resolve license assignment problems
for a group in Azure Active
Directory for more details.
func (m *ReprocessLicenseAssignmentRequestBuilder) Post(ctx context.Context, requestConfiguration
*ReprocessLicenseAssignmentRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bb
a17de0380ddda76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,

```

```

"5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
}
res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)
if err != nil {
return nil, err
}
if res
== nil {
return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
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```

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```
package lambda
```

```
import (  
    "encoding/json"  
    "fmt"  
    "log"  
    "regexp"  
    "strings"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/service/lambda"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/create"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
    "github.com/hashicorp/terraform-provider-aws/internal/verify"  
)  
  
var functionRegexp = `^(arn:[\w-]+:lambda:)?([a-z]{2}-(?:[a-z]{1,2})\d{1}):?(d{12}):?(function:)?([a-zA-Z0-9-  
_]+)(:(\${LATEST}[a-zA-Z0-9-_]++))?$`  
  
func ResourcePermission() *schema.Resource {  
    return &schema.Resource{  
        Create: resourcePermissionCreate,  
        Read: resourcePermissionRead,  
        Delete: resourcePermissionDelete,  
  
        Importer:  
        &schema.ResourceImporter{  
            State: resourcePermissionImport,  
        },  
  
        Schema: map[string]*schema.Schema{  
            "action": {  
                Type: schema.TypeString,  
                Required: true,  
                ForceNew: true,  
                ValidateFunc: validPermissionAction(),  
            },  
        },  
    }  
}
```

```

},
"event_source_token": {
  Type:    schema.TypeString,
  Optional: true,
  ForceNew: true,
  ValidateFunc: validPermissionEventSourceToken(),
},
"function_name": {
  Type:    schema.TypeString,
  Required: true,
  ForceNew: true,
  ValidateFunc: validFunctionName(),
},
"function_url_auth_type": {
  Type:    schema.TypeString,
  Optional: true,
  ForceNew: true,
  ValidateFunc: validation.StringInSlice(lambda.FunctionUrlAuthType_Values(), false),
},
"principal": {
  Type:    schema.TypeString,
  Required: true,
  ForceNew: true,
},
"principal_org_id": {
  Type:    schema.TypeString,
  Optional: true,
  ForceNew: true,
},
"qualifier":
{
  Type:    schema.TypeString,
  Optional: true,
  ForceNew: true,
  ValidateFunc: validQualifier(),
},
"source_account": {
  Type:    schema.TypeString,
  Optional: true,
  ForceNew: true,
  ValidateFunc: verify.ValidAccountID,
},
"source_arn": {
  Type:    schema.TypeString,
  Optional: true,
  ForceNew: true,
  ValidateFunc: verify.ValidARN,
},

```

```

"statement_id": {
  Type:      schema.TypeString,
  Optional:  true,
  Computed:  true,
  ForceNew:  true,
  ValidateFunc: validPolicyStatementID(),
  ConflictsWith: []string{"statement_id_prefix"},
},
"statement_id_prefix": {
  Type:      schema.TypeString,
  Optional:  true,
  Computed:  true,
  ForceNew:  true,
  ValidateFunc: validPolicyStatementID(),
  ConflictsWith: []string{"statement_id"},
},
},
}
}

func resourcePermissionCreate(d *schema.ResourceData, meta interface{}) error
{
  conn := meta.(*conns.AWSCClient).LambdaConn

  functionName := d.Get("function_name").(string)
  statementID := create.Name(d.Get("statement_id").(string), d.Get("statement_id_prefix").(string))

  // There is a bug in the API (reported and acknowledged by AWS)
  // which causes some permissions to be ignored when API calls are sent in parallel
  // We work around this bug via mutex
  conns.GlobalMutexKV.Lock(functionName)
  defer conns.GlobalMutexKV.Unlock(functionName)

  input := &lambda.AddPermissionInput{
    Action:      aws.String(d.Get("action").(string)),
    FunctionName: aws.String(functionName),
    Principal:   aws.String(d.Get("principal").(string)),
    StatementId: aws.String(statementID),
  }

  if v, ok := d.GetOk("event_source_token"); ok {
    input.EventSourceToken = aws.String(v.(string))
  }

  if v, ok := d.GetOk("function_url_auth_type"); ok {
    input.FunctionUrlAuthType = aws.String(v.(string))
  }
}

```

```

if v, ok := d.GetOk("principal_org_id"); ok {
    input.PrincipalOrgID = aws.String(v.(string))
}

if
v, ok := d.GetOk("qualifier"); ok {
    input.Qualifier = aws.String(v.(string))
}

if v, ok := d.GetOk("source_account"); ok {
    input.SourceAccount = aws.String(v.(string))
}

if v, ok := d.GetOk("source_arn"); ok {
    input.SourceArn = aws.String(v.(string))
}

log.Printf("[DEBUG] Adding Lambda Permission: %s", input)
// Retry for IAM and Lambda eventual consistency.
_, err := tfresource.RetryWhenAWSErrCodeEquals(propagationTimeout,
func() (interface{}, error) {
    return conn.AddPermission(input)
},
lambda.ErrCodeResourceConflictException, lambda.ErrCodeResourceNotFoundException)

if err != nil {
    return fmt.Errorf("adding Lambda Permission (%s/%s): %w", functionName, statementID, err)
}

d.SetId(statementID)

return resourcePermissionRead(d, meta)
}

func resourcePermissionRead(d *schema.ResourceData, meta interface{}) error {
    conn := meta.(*conns.AWSClient).LambdaConn

    functionName := d.Get("function_name").(string)
    outputRaw, err :=
tfresource.RetryWhenNewResourceNotFound(propagationTimeout,
func() (interface{}, error) {
    return FindPolicyStatementByTwoPartKey(conn, functionName, d.Id(), d.Get("qualifier").(string))
}, d.IsNewResource())

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] Lambda Permission (%s/%s) not found, removing from state", functionName, d.Id())
    d.SetId("")
    return nil
}

```

```

}

if err != nil {
    return fmt.Errorf("reading Lambda Permission (%s/%s): %w", functionName, d.Id(), err)
}

statement := outputRaw.(*PolicyStatement)
qualifier, _ := GetQualifierFromAliasOrVersionARN(statement.Resource)

d.Set("qualifier", qualifier)

// Save Lambda function name in the same format
if strings.HasPrefix(functionName, "arn:"+meta.(*conns.AWSClient).Partition+":lambda:") {
    // Strip qualifier off
    trimmedArn := strings.TrimSuffix(statement.Resource, ":"+qualifier)
    d.Set("function_name", trimmedArn)
} else {
    functionName, err := GetFunctionNameFromARN(statement.Resource)

    if
err != nil {
        return err
    }

    d.Set("function_name", functionName)
}

d.Set("action", statement.Action)
// Check if the principal is a cross-account IAM role
if v, ok := statement.Principal.(map[string]interface{}); ok {
    if _, ok := v["AWS"]; ok {
        d.Set("principal", v["AWS"])
    } else {
        d.Set("principal", v["Service"])
    }
} else if v, ok := statement.Principal.(string); ok {
    d.Set("principal", v)
}

if stringEquals, ok := statement.Condition["StringEquals"]; ok {
    d.Set("source_account", stringEquals["AWS:SourceAccount"])
    d.Set("event_source_token", stringEquals["lambda:EventSourceToken"])
    d.Set("principal_org_id", stringEquals["aws:PrincipalOrgID"])
    d.Set("function_url_auth_type", stringEquals["lambda:FunctionUrlAuthType"])
}

if arnLike, ok := statement.Condition["ArnLike"]; ok {
    d.Set("source_arn", arnLike["AWS:SourceArn"])
}

```

```

}

d.Set("statement_id", statement.Sid)
d.Set("statement_id_prefix", create.NamePrefixFromName(statement.Sid))

return
nil
}

func resourcePermissionDelete(d *schema.ResourceData, meta interface{}) error {
conn := meta.(*conns.AWSClient).LambdaConn

functionName := d.Get("function_name").(string)

// There is a bug in the API (reported and acknowledged by AWS)
// which causes some permissions to be ignored when API calls are sent in parallel
// We work around this bug via mutex
conns.GlobalMutexKV.Lock(functionName)
defer conns.GlobalMutexKV.Unlock(functionName)

input := &lambda.RemovePermissionInput{
    FunctionName: aws.String(functionName),
    StatementId: aws.String(d.Id()),
}

if v, ok := d.GetOk("qualifier"); ok {
    input.Qualifier = aws.String(v.(string))
}

log.Printf("[DEBUG] Removing Lambda Permission: %s", input)
_, err := conn.RemovePermission(input)

if tfawserr.ErrCodeEquals(err, lambda.ErrCodeResourceNotFoundException) {
    return nil
}

if err != nil {
    return fmt.Errorf("removing Lambda Permission (%s/%s): %w", functionName, d.Id(), err)
}

_, err = tfresource.RetryUntilNotFound(propagationTimeout,
func() (interface{}, error) {
    return FindPolicyStatementByTwoPartKey(conn, functionName, d.Id(), d.Get("qualifier").(string))
})

if err != nil {
    return fmt.Errorf("waiting for Lambda Permission (%s/%s) delete: %w", functionName, d.Id(), err)
}

```

```

return nil
}

func findPolicy(conn *lambda.Lambda, input *lambda.GetPolicyInput) (*lambda.GetPolicyOutput, error) {
    output, err := conn.GetPolicy(input)

    if tfawserr.ErrCodeEquals(err, lambda.ErrCodeResourceNotFoundException) {
        return nil, &resource.NotFoundError{
            LastError: err,
            LastRequest: input,
        }
    }

    if err != nil {
        return nil, err
    }

    if output == nil {
        return nil, tfresource.NewEmptyResultError(input)
    }

    return output, nil
}

func FindPolicyStatementByTwoPartKey(conn *lambda.Lambda, functionName, statementID, qualifier string)
(*PolicyStatement, error) {
    input := &lambda.GetPolicyInput{
        FunctionName: aws.String(functionName),
    }

    if qualifier != "" {
        input.Qualifier
        = aws.String(qualifier)
    }

    output, err := findPolicy(conn, input)

    if err != nil {
        return nil, err
    }

    policy := Policy{}
    err = json.Unmarshal([]byte(aws.StringValue(output.Policy)), &policy)

    if err != nil {
        return nil, err
    }
}

```

```

for _, v := range policy.Statement {
    if v.Sid == statementID {
        return &v, nil
    }
}

return nil, &resource.NotFoundError{
    LastRequest: statementID,
    LastResponse: policy,
    Message:    fmt.Sprintf("Failed to find statement %q in Lambda policy:\n%s", statementID, policy.Statement),
}
}

```

```

func FindPolicyStatementByID(policy *Policy, id string) (*PolicyStatement, error) {

```

```

    log.Printf("[DEBUG] Received %d statements in Lambda policy: %s", len(policy.Statement), policy.Statement)
    for _, statement := range policy.Statement {
        if statement.Sid == id {
            return &statement, nil
        }
    }
}

```

```

return nil, &resource.NotFoundError{
    LastRequest: id,
    LastResponse: policy,
    Message:    fmt.Sprintf("Failed to find statement %q in Lambda policy:\n%s",
id, policy.Statement),
}
}

```

```

func GetQualifierFromAliasOrVersionARN(arn string) (string, error) {
    matches := regexp.MustCompile(functionRegexp).FindStringSubmatch(arn)
    if len(matches) < 8 || matches[7] == "" {
        return "", fmt.Errorf("Invalid ARN or otherwise unable to get qualifier from ARN (%q)",
arn)
    }
}

```

```

return matches[7], nil
}

```

```

func GetFunctionNameFromARN(arn string) (string, error) {
    matches := regexp.MustCompile(functionRegexp).FindStringSubmatch(arn)
    if len(matches) < 6 || matches[5] == "" {
        return "", fmt.Errorf("Invalid ARN or otherwise unable to get qualifier from ARN (%q)",
arn)
    }
}

```

```

return matches[5], nil

```

```

}

func resourcePermissionImport(d *schema.ResourceData, meta interface{ }) ([]*schema.ResourceData, error) {
    idParts := strings.Split(d.Id(), "/")
    if len(idParts) != 2 || idParts[0] == "" || idParts[1] == "" {
        return nil, fmt.Errorf("Unexpected format of ID (%q), expected FUNCTION_NAME/STATEMENT_ID or
FUNCTION_NAME:QUALIFIER/STATEMENT_ID", d.Id())
    }

    functionName
    := idParts[0]

    input := &lambda.GetFunctionInput{FunctionName: &functionName}

    var qualifier string
    fnParts := strings.Split(functionName, ":")
    if len(fnParts) == 2 {
        functionName = fnParts[0]
        qualifier = fnParts[1]
        input.Qualifier = &qualifier
    }
    statementId := idParts[1]
    log.Printf("[DEBUG] Importing Lambda Permission %s for function name %s", statementId, functionName)

    conn := meta.(*conns.AWSCClient).LambdaConn
    getFunctionOutput, err := conn.GetFunction(input)
    if err != nil {
        return nil, err
    }

    d.Set("function_name", getFunctionOutput.Configuration.FunctionArn)
    d.Set("statement_id", statementId)
    if qualifier != "" {
        d.Set("qualifier", qualifier)
    }
    d.SetId(statementId)
    return []*schema.ResourceData{d}, nil
}

type Policy struct {
    Version string
    Statement []PolicyStatement
    Id string
}

type PolicyStatement struct {
    Condition map[string]map[string]string
    Action string
}

```

```
Resource string
Effect string
Principal interface{ }
Sid
    string
}
MIT License
```

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```
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//  
// Code generated by Alibaba Cloud SDK Code Generator.  
// Changes may cause incorrect behavior and will be lost if the code is regenerated.  
  
import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"  
)  
  
// DescribeLicense invokes the market.DescribeLicense API synchronously  
// api document: https://help.aliyun.com/api/market/describelicense.html  
func (client *Client) DescribeLicense(request
```

```

*DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {
response = CreateDescribeLicenseResponse()
err = client.DoAction(request, response)
return
}

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan
*DescribeLicenseResponse, <-chan error) {
responseChan := make(chan *DescribeLicenseResponse, 1)
errChan := make(chan error, 1)
err := client.AddAsyncTask(func() {
defer close(responseChan)
defer close(errChan)
response, err := client.DescribeLicense(request)
if err != nil {
errChan <- err
} else {
responseChan <- response
}
})
if err != nil {
errChan <- err
close(responseChan)
close(errChan)
}
return responseChan, errChan
}

// DescribeLicenseWithCallback invokes
the market.DescribeLicense API asynchronously
// api document: https://help.aliyun.com/api/market/describelicense.html
// asynchronous document: https://help.aliyun.com/document_detail/66220.html
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response
*DescribeLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *DescribeLicenseResponse
var err error
defer close(result)
response, err = client.DescribeLicense(request)
callback(response, err)
result <- 1
})
if err != nil {
defer close(result)
}
}

```

```

callback(nil, err)
result <- 0
}
return result
}

// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
    *requests.RpcRequest
    LicenseCode string `position:"Query" name:"LicenseCode"`
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
    *responses.BaseResponse
    RequestId
    string `json:"RequestId" xml:"RequestId"`
    License License `json:"License" xml:"License"`
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
    request = &DescribeLicenseRequest{
        RpcRequest: &requests.RpcRequest{ },
    }
    request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
    return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
    response = &DescribeLicenseResponse{
        BaseResponse: &responses.BaseResponse{ },
    }
    return
}

```

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package vsphere

```
import (  
    "errors"  
    "fmt"  
    "log"  
  
    "context"  
  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
var (  
    // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.  
    // The error doesn't display the key itself for security reasons.  
    ErrNoSuchKeyFound = errors.New("The key was not found")  
    // ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is  
    // being removed  
    ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")  
)  
  
func resourceVSphereLicense() *schema.Resource {  
    return &schema.Resource{  
  
        SchemaVersion: 1,  
  
        Create: resourceVSphereLicenseCreate,  
        Read:  resourceVSphereLicenseRead,  
        Update: resourceVSphereLicenseUpdate,  
        Delete: resourceVSphereLicenseDelete,  
    }
```

```

Schema: map[string]*schema.Schema{
    "license_key": {
        Type: schema.TypeString,
        Required: true,
        ForceNew:
true,
    },
    "labels": {
        Type: schema.TypeMap,
        Optional: true,
        Elem: &schema.Schema{Type: schema.TypeString},
    },

    // computed properties returned by the API
    "edition_key": {
        Type: schema.TypeString,
        Computed: true,
    },
    "name": {
        Type: schema.TypeString,
        Computed: true,
    },
    "total": {
        Type: schema.TypeInt,
        Computed: true,
    },
    "used": {
        Type: schema.TypeInt,
        Computed: true,
    },
}
}

```

```

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the create method")

```

```

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

```

```

    key := d.Get("license_key").(string)

```

```

    log.Println(" [INFO] Reading the key from the resource data")
    var labelMap map[string]interface{ }
    if labels, ok := d.GetOk("labels"); ok {
        labelMap = labels.(map[string]interface{ })
    }

```

```

var info types.LicenseManagerLicenseInfo
var err error
switch
t := client.ServiceContent.About.ApiType; t {
case "HostAgent":
// Labels are not allowed in ESXi
if len(labelMap) != 0 {
return errors.New("Labels are not allowed in ESXi")
}
info, err = manager.Update(context.TODO(), key, nil)

case "VirtualCenter":
info, err = manager.Add(context.TODO(), key, nil)
if err != nil {
return err
}
err = updateLabels(manager, key, labelMap)

default:
return fmt.Errorf("unsupported ApiType: %s", t)
}

if err != nil {
return err
}

if err = DecodeError(info); err != nil {
return err
}

// This can be used in the read method to set the computed parameters
d.SetId(info.LicenseKey)

return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the read method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if info := getLicenseInfoFromKey(d.Get("license_key").(string), manager);
info != nil {
log.Println("[INFO] Setting the values")
_ = d.Set("edition_key", info.EditionKey)
_ = d.Set("total", info.Total)
_ = d.Set("used", info.Used)
}
}

```

```

    _ = d.Set("name", info.Name)
    _ = d.Set("labels", keyValuesToMap(info.Labels))
} else {
    return ErrNoSuchKeyFound
}

return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the update method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    if key, ok := d.GetOk("license_key"); ok {
        licenseKey := key.(string)
        if !isKeyPresent(licenseKey, manager) {
            return ErrNoSuchKeyFound
        }

        if d.HasChange("labels") {
            labelMap := d.Get("labels").(map[string]interface{ })

            err := updateLabels(manager, licenseKey, labelMap)
            if err != nil {
                return err
            }
        }

        return resourceVSphereLicenseRead(d, meta)
    }

    func updateLabels(manager
        *license.Manager, licenseKey string, labelMap map[string]interface{ }) error {
        for key, value := range labelMap {
            err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
            if err != nil {
                return err
            }
        }
        return nil
    }

    func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{ }) error {
        log.Println("[INFO] Running the delete method")

```

```

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
    err := manager.Remove(context.TODO(), key)

    if err != nil {
        return err
    }

    // if the key is still present
    if isKeyPresent(key, manager) {
        return ErrKeyCannotBeDeleted
    }
    d.SetId("")
    return nil
}
return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
    // Use of decode is not returning labels so using list instead
    // Issue - https://github.com/vmware/govmomi/issues/797
    infoList,
    _ := manager.List(context.TODO())
    for _, info := range infoList {
        if info.LicenseKey == key {
            return &info
        }
    }
    return nil
}

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
    infoList, _ := manager.List(context.TODO())

    for _, info := range infoList {
        if info.LicenseKey == key {
            return true
        }
    }

    return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects

```

```

func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {
    req := types.UpdateLicenseLabel{
        This:    m.Reference(),
        LicenseKey: licenseKey,
        LabelKey: key,
        LabelValue: val,
    }

    _, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
// to the server
func DecodeError(info types.LicenseManagerLicenseInfo)
error {
    for _, property := range info.Properties {
        if property.Key == "diagnostic" {
            return errors.New(property.Value.(string))
        }
    }
}

return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
    KVMap := make(map[string]interface{})
    for _, keyValue := range keyValues {
        KVMap[keyValue.Key] = keyValue.Value
    }
    return KVMap
}

package grant

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// GrantRequestBuilder provides operations to call the grant method.
type GrantRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
}

```

```

    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// GrantRequestBuilderPostRequestConfiguration configuration for the request such as headers, query parameters,
and middleware options.
type GrantRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options

Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewGrantRequestBuilderInternal instantiates a new GrantRequestBuilder and sets the default values.
func NewGrantRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*GrantRequestBuild
er) {
    m := &GrantRequestBuilder{
    }
    m.urlTemplate = "{+baseUrl}/shares/{sharedDriveItem%2Did}/permission/microsoft.graph.grant";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewGrantRequestBuilder instantiates a new GrantRequestBuilder and sets the default values.
func NewGrantRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*GrantRequestBuild
er) {
    urlParams
:= make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewGrantRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation grant users access to a link represented by a [permission][].
func (m *GrantRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
GrantPostRequestBodyable, requestConfiguration
*GrantRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b74374
80d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
}

```

```

if requestConfiguration != nil {

    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// Post grant users access to a link represented by a [permission][].
func (m *GrantRequestBuilder) Post(ctx context.Context, body GrantPostRequestBodyable, requestConfiguration
*GrantRequestBuilderPostRequestConfiguration)(GrantResponseable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo, CreateGrantResponseFromDiscriminatorValue,
errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(GrantResponseable), nil
}

```

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package models

```
import (  
    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseAssignmentState  
type LicenseAssignmentState struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{ }  
    // The assignedByGroup property  
    assignedByGroup *string  
    // The disabledPlans property  
    disabledPlans []string  
    // The error property  
    error *string  
    // The lastUpdatedDateTime property  
    lastUpdatedDateTime *i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time  
    // The OdataType property  
    odataType *string  
    // The skuId property  
    skuId *string  
    // The  
    state property  
    state *string  
}  
// NewLicenseAssignmentState instantiates a new licenseAssignmentState and sets the default values.  
func NewLicenseAssignmentState>(*LicenseAssignmentState) {  
    m := &LicenseAssignmentState{  
    }  
    m.SetAdditionalData(make(map[string]interface{ }));  
    return m  
}  
// CreateLicenseAssignmentStateFromDiscriminatorValue creates a new instance of the appropriate class based on  
discriminator value  
func CreateLicenseAssignmentStateFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
```

```

388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseAssignmentState(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseAssignmentState) GetAdditionalData()(map[string]interface{} ) {
    return m.additionalData
}
//
GetAssignedByGroup gets the assignedByGroup property value. The assignedByGroup property
func (m *LicenseAssignmentState) GetAssignedByGroup>(*string) {
    return m.assignedByGroup
}
// GetDisabledPlans gets the disabledPlans property value. The disabledPlans property
func (m *LicenseAssignmentState) GetDisabledPlans([]string) {
    return m.disabledPlans
}
// GetError gets the error property value. The error property
func (m *LicenseAssignmentState) GetError>(*string) {
    return m.error
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseAssignmentState)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["assignedByGroup"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetAssignedByGrou
p)
    res["disabledPlans"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetDisabledPlans)
    res["error"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetError)
    res["lastUpdatedDateTime"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetTimeValue(m.SetLastUpdatedDate
Time)
    res["@odata.type"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["skuId"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)
    res["state"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetState)
    return res
}
// GetLastUpdatedDateTime gets the lastUpdatedDateTime property value. The lastUpdatedDateTime property

```

```

func (m *LicenseAssignmentState)
GetLastUpdatedDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)
{
    return m.lastUpdatedDateTime
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseAssignmentState) GetOdataType>(*string) {
    return m.odatatype
}
// GetSkuid gets the skuId property value. The skuId property
func (m *LicenseAssignmentState) GetSkuid>(*string) {
    return m.skuId
}
// GetState gets the state property value. The state property
func (m *LicenseAssignmentState) GetState>(*string) {
    return m.state
}
// Serialize serializes information the current object
func (m *LicenseAssignmentState) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteStringValue("assignedByGroup", m.GetAssignedByGroup())
        if err != nil {
            return err
        }
    }
    if m.GetDisabledPlans() != nil {
        err := writer.WriteCollectionOfStringValues("disabledPlans", m.GetDisabledPlans())
        if err != nil {
            return
err
        }
    }
    {
        err := writer.WriteStringValue("error", m.GetError())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteTimeValue("lastUpdatedDateTime", m.GetLastUpdatedDateTime())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {

```

```

        return err
    }
}
{
    err := writer.WriteStringValue("skuId", m.GetSkuId())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteStringValue("state", m.GetState())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteStringValue("state", m.GetState())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteStringValue("state", m.GetState())
    if err != nil {
        return err
    }
}
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when
deserializing. Can be used for serialization as well.
func (m *LicenseAssignmentState) SetAdditionalData(value map[string]interface{})() {
    m.additionalData = value
}
// SetAssignedByGroup sets the assignedByGroup property value. The assignedByGroup property
func (m *LicenseAssignmentState) SetAssignedByGroup(value *string)() {
    m.assignedByGroup = value
}
// SetDisabledPlans sets the disabledPlans property value. The disabledPlans property
func (m *LicenseAssignmentState) SetDisabledPlans(value []string)() {
    m.disabledPlans = value
}
// SetError sets the error property value. The error property
func (m *LicenseAssignmentState) SetError(value *string)() {
    m.error = value
}
// SetLastUpdatedDateTime sets the lastUpdatedDateTime property value. The lastUpdatedDateTime property
func (m *LicenseAssignmentState) SetLastUpdatedDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)() {
    m.lastUpdatedDateTime = value
}
}
// SetOdataType sets the

```

```

@odata.type property value. The OdataType property
func (m *LicenseAssignmentState) SetOdataType(value *string) {
    m.odatatype = value
}
// SetSkuId sets the skuId property value. The skuId property
func (m *LicenseAssignmentState) SetSkuId(value *string) {
    m.skuId = value
}
// SetState sets the state property value. The state property
func (m *LicenseAssignmentState) SetState(value *string) {
    m.state = value
}
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```

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#

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```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler  
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler  
// on it.  
type NoticeHandlerConnector  
struct {  
    driver.Connector  
    noticeHandler func(*Error)  
}
```

```
// Connect calls the underlying connector's connect method and then sets the  
// notice handler.  
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {  
    c, err := n.Connector.Connect(ctx)  
    if err == nil {  
        SetNoticeHandler(c, n.noticeHandler)  
    }  
}
```

```

return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
if c, ok := c.(*NoticeHandlerConnector); ok {
return c.noticeHandler
}
return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
//
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
if c, ok := c.(*NoticeHandlerConnector); ok {
c.noticeHandler = handler
return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// AssignedLicenseCollectionResponseable  
type AssignedLicenseCollectionResponseable interface {  
    BaseCollectionPaginationCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue([]AssignedLicenseable)  
    SetValue(value []AssignedLicenseable())  
}
```

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package models

```
import (
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
    abstractions-go"
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
    abstractions-go/serialization"
)

// LicenseUnitsDetail
type LicenseUnitsDetail struct {
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for
    serialization as well.
    additionalData map[string]interface{}
    // The number of units that are enabled for the active subscription of the service SKU.
    enabled *int32
    // The OdataType property
    odataType *string
    // The number of units that are suspended because the subscription of the service SKU has been cancelled. The
    units cannot be assigned but can still be reactivated before they are deleted.
    suspended *int32
    // The number of units that are in warning status. When the subscription of the service SKU has expired, the
    customer
    has a grace period to renew their subscription before it is cancelled (moved to a suspended state).
    warning *int32
}
// NewLicenseUnitsDetail instantiates a new licenseUnitsDetail and sets the default values.
func NewLicenseUnitsDetail(*LicenseUnitsDetail) {
    m := &LicenseUnitsDetail{
```

```

    }
    m.SetAdditionalData(make(map[string]interface{ }));
    return m
}
// CreateLicenseUnitsDetailFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateLicenseUnitsDetailFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseUnitsDetail(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseUnitsDetail) GetAdditionalData()(map[string]interface{ })
{
    return m.additionalData
}
// GetEnabled gets the enabled property value. The number of units that are enabled for the active subscription of the
service SKU.
func (m *LicenseUnitsDetail) GetEnabled()(*int32) {
    return m.enabled
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseUnitsDetail)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["enabled"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetEnabled)
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["suspended"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetSuspended)
    res["warning"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetInt32Value(m.SetWarning)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseUnitsDetail) GetOdataType>(*string) {
    return m.odataType
}
// GetSuspended gets the suspended property value. The number of units that are suspended because the subscription
of the service SKU has been cancelled. The units cannot be assigned but can still be reactivated before they are
deleted.
func (m *LicenseUnitsDetail) GetSuspended()(*int32) {
    return m.suspended
}

```

```

}
// GetWarning gets the warning property value. The number of units that are in warning status. When the
subscription of the service SKU has expired, the customer has a grace period to renew their subscription before it is
cancelled (moved to a suspended state).
func (m *LicenseUnitsDetail) GetWarning()(int32) {
    return m.warning
}
// Serialize serializes information the current object
func (m *LicenseUnitsDetail)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteInt32Value("enabled", m.GetEnabled())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteInt32Value("suspended", m.GetSuspended())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteInt32Value("warning", m.GetWarning())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func
(m *LicenseUnitsDetail) SetAdditionalData(value map[string]interface{})(error) {
    m.additionalData = value
}

```

```

}
// SetEnabled sets the enabled property value. The number of units that are enabled for the active subscription of the
service SKU.
func (m *LicenseUnitsDetail) SetEnabled(value *int32)() {
    m.enabled = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *LicenseUnitsDetail) SetOdataType(value *string)() {
    m.odatatype = value
}
// SetSuspended sets the suspended property value. The number of units that are suspended because the subscription
of the service SKU has been cancelled. The units cannot be assigned but can still be reactivated before they are
deleted.
func (m *LicenseUnitsDetail) SetSuspended(value *int32)() {
    m.suspended = value
}
// SetWarning sets the warning property value. The number of units that are in warning status. When the
subscription of the service SKU has expired, the customer has a grace period to
renew their subscription before it is cancelled (moved to a suspended state).
func (m *LicenseUnitsDetail) SetWarning(value *int32)() {
    m.warning = value
}
}
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```

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source: <https://github.com/IBM-Cloud/terraform-provider-ibm>
issues: <https://github.ibm.com/blueprint/security-project-management/issues>
objectCodeOnly: false
additionalDownloads:
include:
- go modules
exclude:
- name: glide
documentation: Package manager not invoked in build nor runtime use
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*/

package license

```
import (  
    "context"  
  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type AssignmentManager struct {  
    object.Common  
}  
  
func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)  
([]types.LicenseAssignmentManagerLicenseAssignment, error) {  
    req := types.QueryAssignedLicenses{  
        This:    m.Reference(),  
        EntityId:  
        id,  
    }  
  
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)  
    if err != nil {  
        return nil, err  
    }  
  
    return res.Returnval, nil  
}  
  
func (m AssignmentManager) Remove(ctx context.Context, id string) error {  
    req := types.RemoveAssignedLicense{  
        This:    m.Reference(),  
        EntityId: id,  
    }  
  
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)  
  
    return err  
}  
  
func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
```

```

(*types.LicenseManagerLicenseInfo, error) {
req := types.UpdateAssignedLicense{
  This:      m.Reference(),
  Entity:    id,
  LicenseKey: key,
  EntityDisplayName: name,
}

res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
if err != nil {
  return nil, err
}

return &res.Returnval, nil
}

```

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match.go, match_test.go:

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package events

```
import (  
    "encoding/json"  
    "fmt"  
    "log"  
    "regexp"  
  
    "github.com/aws/aws-sdk-go/aws"  
    "github.com/aws/aws-sdk-go/aws/arn"  
    "github.com/aws/aws-sdk-go/aws/awsutil"  
    "github.com/aws/aws-sdk-go/service/eventbridge"  
    "github.com/hashicorp/aws-sdk-go-base/v2/awsv1shim/v2/tfawserr"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/resource"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"  
    "github.com/hashicorp/terraform-plugin-sdk/v2/helper/validation"  
    "github.com/hashicorp/terraform-provider-aws/internal/conns"  
    "github.com/hashicorp/terraform-provider-aws/internal/tfresource"  
)
```

```
func ResourcePermission() *schema.Resource {  
    return &schema.Resource{  
        Create: resourcePermissionCreate,  
        Read: resourcePermissionRead,  
        Update: resourcePermissionUpdate,  
        Delete: resourcePermissionDelete,  
        Importer: &schema.ResourceImporter{  
            State: schema.ImportStatePassthrough,  
        },  
    },
```

```
    Schema: map[string]*schema.Schema{  
        "action": {  
            Type: schema.TypeString,  
            Optional: true,  
            Default: "events:PutEvents",  
            ValidateFunc: validatePermissionAction,  
        },  
        "condition": {  
            Type: schema.TypeList,  
            Optional: true,  
            MaxItems: 1,
```

```

Elem: &schema.Resource{
  Schema: map[string]*schema.Schema{
    "key": {
      Type:     schema.TypeString,
      Required: true,
      ValidateFunc: validation.StringInSlice([]string{"aws:PrincipalOrgID"}, false),
    },
    "type": {
      Type:     schema.TypeString,
      Required: true,
      ValidateFunc: validation.StringInSlice([]string{"StringEquals"}, false),
    },
    "value": {
      Type:     schema.TypeString,
      Required: true,
      ValidateFunc: validation.NoZeroValues,
    },
  },
  },
  },
  },
  "event_bus_name": {
    Type:     schema.TypeString,
    Optional: true,
    ForceNew: true,
    ValidateFunc: validBusNameOrARN,
    Default:   DefaultEventBusName,
  },
  "principal": {
    Type:
    schema.TypeString,
    Required: true,
    ValidateFunc: validatePermissionPrincipal,
  },
  "statement_id": {
    Type:     schema.TypeString,
    Required: true,
    ForceNew: true,
    ValidateFunc: validatePermissionStatementID,
  },
  },
}

```

```

func resourcePermissionCreate(d *schema.ResourceData, meta interface{}) error {
  conn := meta.(*conns.AWSClient).EventsConn

```

```

  eventBusName := d.Get("event_bus_name").(string)

```

```

  statementID := d.Get("statement_id").(string)

```

```

input := eventbridge.PutPermissionInput{
    Action:    aws.String(d.Get("action").(string)),
    Condition:  expandCondition(d.Get("condition").([]interface{})),
    EventBusName: aws.String(eventBusName),
    Principal:  aws.String(d.Get("principal").(string)),
    StatementId: aws.String(statementID),
}

log.Printf("[DEBUG] Creating EventBridge permission: %s", input)
_, err := conn.PutPermission(&input)
if err != nil {
    return fmt.Errorf("Creating EventBridge permission failed: %w", err)
}

id
:= PermissionCreateResourceID(eventBusName, statementID)
d.SetId(id)

return resourcePermissionRead(d, meta)
}

// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
func resourcePermissionRead(d *schema.ResourceData, meta interface{}) error {
    conn := meta.(*conns.AWSClient).EventsConn

    eventBusName, statementID, err := PermissionParseResourceID(d.Id())
    if err != nil {
        return fmt.Errorf("error reading EventBridge permission (%s): %w", d.Id(), err)
    }
    input := eventbridge.DescribeEventBusInput{
        Name: aws.String(eventBusName),
    }
    var output *eventbridge.DescribeEventBusOutput
    var policyStatement *PermissionPolicyStatement

    // Especially with concurrent PutPermission calls there can be a slight delay
    err = resource.Retry(propagationTimeout, func() *resource.RetryError {
        log.Printf("[DEBUG] Reading EventBridge bus: %s", input)
        output, err = conn.DescribeEventBus(&input)
        if err != nil {
            return resource.NonRetryableError(fmt.Errorf("reading
EventBridge permission (%s) failed: %w", d.Id(), err))
        }
    })

    policyStatement, err = getPolicyStatement(output, statementID)
    if err != nil {
        return resource.RetryableError(err)
    }
}

```

```

    }
    return nil
})

if tfresource.TimedOut(err) {
    output, err = conn.DescribeEventBus(&input)
    if output != nil {
        policyStatement, err = getPolicyStatement(output, statementID)
    }
}

if !d.IsNewResource() && tfresource.NotFound(err) {
    log.Printf("[WARN] EventBridge permission (%s) not found, removing from state", d.Id())
    d.SetId("")
    return nil
}
if err != nil {
    return fmt.Errorf("error reading EventBridge permission (%s): %w", d.Id(), err)
}

d.Set("action", policyStatement.Action)
busName := aws.StringValue(output.Name)
if busName == "" {
    busName = DefaultEventBusName
}
d.Set("event_bus_name", busName)

if err := d.Set("condition", flattenPermissionPolicyStatementCondition(policyStatement.Condition)); err != nil {
    return fmt.Errorf("error setting condition:
    %w", err)
}

switch principal := policyStatement.Principal.(type) {
case string:
    d.Set("principal", principal)
case map[string]interface{}:
    if v, ok := principal["AWS"].(string); ok {
        if arn.IsARN(v) {
            principalARN, err := arn.Parse(v)

            if err != nil {
                return fmt.Errorf("error parsing EventBridge Permission (%s) principal as ARN (%s): %w", d.Id(), v, err)
            }

            d.Set("principal", principalARN.AccountID)
        } else {
            d.Set("principal", v)
        }
    }
}

```

```

    }
}

d.Set("statement_id", policyStatement.Sid)

return nil
}

func getPolicyStatement(output *eventbridge.DescribeEventBusOutput, statementID string)
(*PermissionPolicyStatement, error) {
var policyDoc PermissionPolicyDoc

if output == nil || output.Policy == nil {
return nil, &resource.NotFoundError{
Message:    fmt.Sprintf("EventBridge permission %q not found", statementID),
LastResponse: output,
}
}

err := json.Unmarshal([]byte(*output.Policy), &policyDoc)
if err != nil {
return nil,
fmt.Errorf("error reading EventBridge permission (%s): %w", statementID, err)
}

return FindPermissionPolicyStatementByID(&policyDoc, statementID)
}

func resourcePermissionUpdate(d *schema.ResourceData, meta interface{}) error {
conn := meta.(*conns.AWSCClient).EventsConn

eventBusName, statementID, err := PermissionParseResourceID(d.Id())
if err != nil {
return fmt.Errorf("error updating EventBridge permission (%s): %w", d.Id(), err)
}

input := eventbridge.PutPermissionInput{
Action:    aws.String(d.Get("action").(string)),
Condition: expandCondition(d.Get("condition").([]interface{})),
EventBusName: aws.String(eventBusName),
Principal: aws.String(d.Get("principal").(string)),
StatementId: aws.String(statementID),
}

_, err = conn.PutPermission(&input)
if err != nil {
return fmt.Errorf("error updating EventBridge permission (%s): %w", d.Id(), err)
}
}

```

```

return resourcePermissionRead(d, meta)
}

func resourcePermissionDelete(d *schema.ResourceData, meta
interface{ }) error {
conn := meta.(*conns.AWSClient).EventsConn

eventBusName, statementID, err := PermissionParseResourceID(d.Id())
if err != nil {
return fmt.Errorf("error deleting EventBridge permission (%s): %w", d.Id(), err)
}
input := eventbridge.RemovePermissionInput{
EventBusName: aws.String(eventBusName),
StatementId: aws.String(statementID),
}

log.Printf("[DEBUG] Delete EventBridge permission: %s", input)
_, err = conn.RemovePermission(&input)
if tfawserr.ErrCodeEquals(err, eventbridge.ErrCodeResourceNotFoundException) {
return nil
}
if err != nil {
return fmt.Errorf("error deleting EventBridge permission (%s): %w", d.Id(), err)
}
return nil
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_Reque
stParameters
func validatePermissionAction(v interface{ }, k string) (ws []string, es []error) {
value := v.(string)
if (len(value) < 1) || (len(value) > 64) {
es = append(es, fmt.Errorf("%q must be
between 1 and 64 characters", k))
}

if !regexp.MustCompile(`^events:[a-zA-Z]+$`).MatchString(value) {
es = append(es, fmt.Errorf("%q must be: events: followed by one or more alphabetic characters", k))
}
return
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_Reque
stParameters
func validatePermissionPrincipal(v interface{ }, k string) (ws []string, es []error) {
value := v.(string)

```

```

if !regexp.MustCompile(`^\d{12}|*$`).MatchString(value) {
    es = append(es, fmt.Errorf("%q must be * or a 12 digit AWS account ID", k))
}
return
}

//
https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_PutPermission.html#API\_PutPermission\_RequestParameters
func validatePermissionStatementID(v interface{ }, k string) (ws []string, es []error) {
    value := v.(string)
    if (len(value) < 1) || (len(value) > 64) {
        es = append(es, fmt.Errorf("%q must be between 1 and 64 characters", k))
    }

    if !regexp.MustCompile(`^[a-zA-Z0-9-_]+$`).MatchString(value)
    {
        es = append(es, fmt.Errorf("%q must be one or more alphanumeric, hyphen, or underscore characters", k))
    }
    return
}

// PermissionPolicyDoc represents the Policy attribute of DescribeEventBus
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyDoc struct {
    Version string
    ID      string          `json:"Id,omitempty"`
    Statements []PermissionPolicyStatement `json:"Statement"`
}

// String returns the string representation
func (d PermissionPolicyDoc) String() string {
    return awsutil.Prettify(d)
}

// GoString returns the string representation
func (d PermissionPolicyDoc) GoString() string {
    return d.String()
}

// PermissionPolicyStatement represents the Statement attribute of PermissionPolicyDoc
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyStatement struct {
    Sid      string
    Effect   string
    Action   string
    Condition *PermissionPolicyStatementCondition `json:"Condition,omitempty"`
}

```

```

Principal interface{ }           // "*" or {"AWS": "arn:aws:iam::111111111111:root"}
Resource string
}

// String returns the string representation
func (s PermissionPolicyStatement) String() string {
    return awsutil.Prettify(s)
}

// GoString returns the string representation
func (s PermissionPolicyStatement) GoString() string {
    return s.String()
}

// PermissionPolicyStatementCondition represents the Condition attribute of PermissionPolicyStatement
// See also: https://docs.aws.amazon.com/eventbridge/latest/APIReference/API\_DescribeEventBus.html
type PermissionPolicyStatementCondition struct {
    Key string
    Type string
    Value string
}

// String returns the string representation
func (c PermissionPolicyStatementCondition) String() string {
    return awsutil.Prettify(c)
}

// GoString returns the string representation
func (c PermissionPolicyStatementCondition) GoString() string
{
    return c.String()
}

func (c *PermissionPolicyStatementCondition) UnmarshalJSON(b []byte) error {
    var out PermissionPolicyStatementCondition

    // JSON representation: {"Condition":{"StringEquals":{"aws:PrincipalOrgID":{"o-0123456789"}}}}
    var data map[string]map[string]string
    if err := json.Unmarshal(b, &data); err != nil {
        return err
    }

    for typeKey, typeValue := range data {
        for conditionKey, conditionValue := range typeValue {
            out = PermissionPolicyStatementCondition{
                Key: conditionKey,
                Type: typeKey,
                Value: conditionValue,
            }
        }
    }
}

```

```

    }
    }
}

*c = out
return nil
}

func FindPermissionPolicyStatementByID(policy *PermissionPolicyDoc, id string) (
*PermissionPolicyStatement, error) {

log.Printf("[DEBUG] Finding statement (%s) in EventBridge permission policy: %s", id, policy)
for _, statement := range policy.Statements {
if statement.Sid == id {
return &statement, nil
}
}

return nil, &resource.NotFoundError{
LastRequest: id,
LastResponse:
policy,
Message:    fmt.Sprintf("Failed to find statement (%s) in EventBridge permission policy: %s", id, policy),
}
}

func expandCondition(l []interface{}) *eventbridge.Condition {
if len(l) == 0 || l[0] == nil {
return nil
}

m := l[0].(map[string]interface{})

condition := &eventbridge.Condition{
Key:    aws.String(m["key"].(string)),
Type:   aws.String(m["type"].(string)),
Value:  aws.String(m["value"].(string)),
}

return condition
}

func flattenPermissionPolicyStatementCondition(c *PermissionPolicyStatementCondition) []interface{} {
if c == nil {
return []interface{}{}
}

m := map[string]interface{}{

```

```
"key": c.Key,  
"type": c.Type,  
"value": c.Value,  
}
```

```
return []interface{}{m}  
}
```

Data model artifacts for Prometheus.

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package assignlicense

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
)  
  
// AssignLicenseRequestBuilder provides operations to call the assignLicense method.  
type AssignLicenseRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL for the current request builder  
    urlTemplate string  
}  
  
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query  
parameters, and  
middleware options.  
type AssignLicenseRequestBuilderPostRequestConfiguration struct {  
    // Request headers  
    Headers map[string]string  
    // Request options  
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption  
}  
  
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default  
values.  
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ  
estBuilder) {  
    m := &AssignLicenseRequestBuilder{
```

```

    }
    m.urlTemplate = "{+baseUrl}/groups/{group%2Did}/microsoft.graph.assignLicense";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder
and sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation add or remove licenses on the group. Licenses assigned to the group will be
assigned to all users in the group. To learn more about group-based licensing, see What is group-based licensing in
Azure Active Directory. To get the subscriptions available in the directory, perform a GET subscribedSkus request.
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post add or remove licenses on the group. Licenses assigned to the group will be assigned to all users in the group.
To learn more about group-based licensing, see What is group-based licensing in Azure Active Directory. To get the
subscriptions available in the directory, perform a GET subscribedSkus request.
func (m *AssignLicenseRequestBuilder)
Post(ctx context.Context, body AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Groupable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);

```

```

if err != nil {
    return nil, err
}
errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
}
res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateGroupFromDiscriminatorValue
, errorMapping)
if err != nil {
    return nil, err
}
if res == nil {
    return
nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Groupable), nil
}

```

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type License struct {
    LicenseStatus string `json:"LicenseStatus" xml:"LicenseStatus"`
    LicenseCode string `json:"LicenseCode" xml:"LicenseCode"`
    InstanceId string `json:"InstanceId" xml:"InstanceId"`
    CreateTime string `json:"CreateTime"
xml:"CreateTime"`
    ExpiredTime string `json:"ExpiredTime" xml:"ExpiredTime"`
    ActivateTime string `json:"ActivateTime" xml:"ActivateTime"`
    ProductSkuId string `json:"ProductSkuId" xml:"ProductSkuId"`
    ProductCode string `json:"ProductCode" xml:"ProductCode"`
    ProductName string `json:"ProductName" xml:"ProductName"`
    SupplierName string `json:"SupplierName" xml:"SupplierName"`
    ExtendInfo ExtendInfo `json:"ExtendInfo" xml:"ExtendInfo"`
    ExtendArray ExtendArray `json:"ExtendArray" xml:"ExtendArray"`
}
/**
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 */
/**
 * AUTOMATICALLY GENERATED CODE - DO NOT MODIFY

```

```

*/

package datatypes

// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"`

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"`

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty"
xmlrpc:"enabledFlag,omitempty"`

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"`

    // no documentation yet
    WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"`
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}

```

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package grant

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantResponseable  
type GrantResponseable interface {  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.BaseCollectionPaginationCountRespo  
nseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable)  
    SetValue(value []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable)()  
}
```

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*/

package license

import (

"context"

"strconv"

"strings"

"github.com/vmware/govmomi/object"

"github.com/vmware/govmomi/vim25"

"github.com/vmware/govmomi/vim25/methods"

"github.com/vmware/govmomi/vim25/mo"

"github.com/vmware/govmomi/vim25/types"

)

type Manager struct {

object.Common

}

func NewManager(c *vim25.Client) *Manager {

m := Manager{

object.NewCommon(c, *c.ServiceContent.LicenseManager),

}

return

```

&m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
var r []types.KeyValue
for k, v := range m {
r = append(r, types.KeyValue{Key: k, Value: v})
}
return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
req := types.AddLicense{
This: m.Reference(),
LicenseKey: key,
Labels: mapToKeyValueSlice(labels),
}

res, err := methods.AddLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{ }, err
}

return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
req := types.DecodeLicense{
This: m.Reference(),
LicenseKey: key,
}

res, err := methods.DecodeLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{ }, err
}

return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
req := types.RemoveLicense{
This:
m.Reference(),
LicenseKey: key,
}
}

```

```

_, err := methods.RemoveLicense(ctx, m.Client(), &req)
return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
req := types.UpdateLicense{
This:    m.Reference(),
LicenseKey: key,
Labels:  mapToKeyValueSlice(labels),
}

res, err := methods.UpdateLicense(ctx, m.Client(), &req)
if err != nil {
return types.LicenseManagerLicenseInfo{ }, err
}

return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
var mlm mo.LicenseManager

err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
if err != nil {
return nil, err
}

return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
var mlm mo.LicenseManager

err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
if err != nil
{
return nil, err
}

if mlm.LicenseAssignmentManager == nil {
return nil, object.ErrNotSupported
}

am := AssignmentManager{
object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}
}

```

```

return &am, nil
}

type licenseFeature struct {
name string
level int
}

func parseLicenseFeature(feature string) *licenseFeature {
lf := new(licenseFeature)

f := strings.Split(feature, ":")

lf.name = f[0]

if len(f) > 1 {
var err error
lf.level, err = strconv.Atoi(f[1])
if err != nil {
lf.name = feature
}
}

return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
feature := parseLicenseFeature(key)

for _, p := range license.Properties {
if p.Key != "feature" {
continue
}

kv, ok := p.Value.(types.KeyValue)

if !ok {
continue
}

lf := parseLicenseFeature(kv.Key)

if lf.name == feature.name && lf.level >= feature.level {
return true
}
}

return false
}

```

```

}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type
InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
var result InfoList

for _, license := range l {
if HasFeature(license, key) {
result = append(result, license)
}
}

return result
}
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```

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import (

i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-

```

abstractions-go/serialization"
)

// LicenseProcessingStateable
type LicenseProcessingStateable interface {
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
    GetOdataType()(*string)
    GetState()(*string)
    SetOdataType(value *string)()
    SetState(value *string)()
}
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package models

import (

 "errors"

)

// Provides operations to manage the collection of agreement entities.

type MicrosoftStoreForBusinessLicenseType int

const (

 OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE MicrosoftStoreForBusinessLicenseType = iota

 ONLINE_MICROSOFTSTOREFORBUSINESSLICENSETYPE

)

func (i MicrosoftStoreForBusinessLicenseType) String() string {

```

    return []string{"offline", "online"}[i]
}
func ParseMicrosoftStoreForBusinessLicenseType(v string) (interface{}, error) {
    result := OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSESETYPE
    switch v {
        case "offline":
            result = OFFLINE_MICROSOFTSTOREFORBUSINESSLICENSESETYPE
        case "online":
            result = ONLINE_MICROSOFTSTOREFORBUSINESSLICENSESETYPE
        default:
            return 0, errors.New("Unknown MicrosoftStoreForBusinessLicenseType value: " + v)
    }
    return &result, nil
}
func SerializeMicrosoftStoreForBusinessLicenseType(values []MicrosoftStoreForBusinessLicenseType) []string {
    result := make([]string, len(values))
    for i, v := range values {
        result[i] = v.String()
    }
    return result
}

```

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseAssignmentStateCollectionResponseable  
type LicenseAssignmentStateCollectionResponseable interface {  
    BaseCollectionPaginationCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]LicenseAssignmentStateable)  
    SetValue(value []LicenseAssignmentStateable)()  
}
```

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package grant

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantResponse provides operations to call the grant method.  
type GrantResponse struct {  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.BaseCollectionPaginationCountRespo  
nse  
    // The value property  
    value []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable  
}  
// NewGrantResponse instantiates a new grantResponse and sets the default values.  
func NewGrantResponse>(*GrantResponse) {  
    m := &GrantResponse{  
        BaseCollectionPaginationCountResponse:  
*iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.NewBaseCollectionPaginationCount  
Response(),  
    }  
    return m  
}  
// CreateGrantResponseFromDiscriminatorValue creates a new instance of the appropriate class based on  
discriminator value  
func CreateGrantResponseFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewGrantResponse(), nil  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *GrantResponse)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error)) {  
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()  
    res["value"] =  
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81  
124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminatorValue ,  
m.SetValue)  
    return res
```

```

}
// GetValue gets the value property
value. The value property
func (m *GrantResponse)
GetValue()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable) {
    return m.value
}
// Serialize serializes information the current object
func (m *GrantResponse) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
func (m *GrantResponse) SetValue(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable)()
{
    m.value = value
}
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```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// AssignedLicense
```

```
type AssignedLicense struct {
```

```
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.
```

```
    additionalData map[string]interface{ }
```

```
    // A collection of the unique identifiers for plans that have been disabled.
```

```
    disabledPlans []string
```

```
    // The OdataType property
```

```

    odataType *string
    // The unique identifier for the SKU.
    skuId *string
}
// NewAssignedLicense instantiates a new assignedLicense and sets the default values.
func NewAssignedLicense>(*AssignedLicense) {
    m := &AssignedLicense{
    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateAssignedLicenseFromDiscriminatorValue
creates a new instance of the appropriate class based on discriminator value
func CreateAssignedLicenseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignedLicense(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignedLicense) GetAdditionalData()(map[string]interface{}) {
    return m.additionalData
}
// GetDisabledPlans gets the disabledPlans property value. A collection of the unique identifiers for plans that have
been disabled.
func (m *AssignedLicense) GetDisabledPlans()([]string) {
    return m.disabledPlans
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignedLicense)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error))
{
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["disabledPlans"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetDisabledPlans)
    res["@odata.type"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
    res["skuId"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetSkuId)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *AssignedLicense) GetOdataType>(*string) {
    return m.odatatype
}

```

```

}
// GetSkuId gets the skuId property value. The unique identifier for the SKU.
func (m *AssignedLicense) GetSkuId>(*string) {
    return m.skuId
}
// Serialize serializes information the current object
func (m *AssignedLicense) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetDisabledPlans() != nil {
        err := writer.WriteCollectionOfStringValues("disabledPlans", m.GetDisabledPlans())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("skuId", m.GetSkuId())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignedLicense) SetAdditionalData(value map[string]interface{})() {
    m.additionalData
    = value
}
// SetDisabledPlans sets the disabledPlans property value. A collection of the unique identifiers for plans that have
been disabled.
func (m *AssignedLicense) SetDisabledPlans(value []string)() {
    m.disabledPlans = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *AssignedLicense) SetOdataType(value *string)() {
    m.odataType = value
}

```

```
}  
// SetSkuId sets the skuId property value. The unique identifier for the SKU.  
func (m *AssignedLicense) SetSkuId(value *string) {  
    m.skuId = value  
}  
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package licensedetails

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e  
    "github.com/microsoftgraph/msgraph-sdk-go/users/item/licensedetails/count"  
)
```

```
// LicenseDetailsRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.
```

```

type LicenseDetailsRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build
    the URL for the current request builder
    urlTemplate string
}
// LicenseDetailsRequestBuilderGetQueryParameters retrieve a list of licenseDetails objects for enterprise users.
This API returns details for licenses that are directly assigned and those transitively assigned through memberships
in licensed groups.
type LicenseDetailsRequestBuilderGetQueryParameters struct {
    // Include count of items
    Count *bool `uriparametername:"%24count"`
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Filter items by property values
    Filter *string `uriparametername:"%24filter"`
    // Order items by property values
    Orderby []string `uriparametername:"%24orderby"`
    // Search items by search phrases
    Search *string `uriparametername:"%24search"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
    // Skip the first n items
    Skip *int32 `uriparametername:"%24skip"`
    // Show only the first n items
    Top *int32 `uriparametername:"%24top"`
}
// LicenseDetailsRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsRequestBuilderGetQueryParameters
}
// LicenseDetailsRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}

```

```

// NewLicenseDetailsRequestBuilderInternal instantiates a new LicenseDetailsRequestBuilder
and sets the default values.
func NewLicenseDetailsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
    m := &LicenseDetailsRequestBuilder{
    }
    m.urlTemplate =
"+baseUrl}/users/{user%2Did}/licenseDetails{?%24top,%24skip,%24search,%24filter,%24count,%24orderby,%2
4select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}

// NewLicenseDetailsRequestBuilder instantiates a new LicenseDetailsRequestBuilder and sets the default values.
func NewLicenseDetailsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"]
= rawUrl
    return NewLicenseDetailsRequestBuilderInternal(urlParams, requestAdapter)
}

// Count provides operations to count the resources in the collection.
func (m *LicenseDetailsRequestBuilder)
Count()(i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e.CountRequestBuilder) {
    return
i318a3997f61226659d2d2830fa011d72bd80793d2c6c8cac6f0c29c31cede02e.NewCountRequestBuilderInternal(m.
pathParameters, m.requestAdapter);
}

// CreateGetRequestInformation retrieve a list of licenseDetails objects for enterprise users. This API returns details
for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))

```

```

    }
    requestInfo.AddRequestHeaders(requestConfiguration.Headers)
    requestInfo.AddRequestOptions(requestConfiguration.Options)
}
return requestInfo, nil
}
// CreatePostRequestInformation create new navigation property to licenseDetails for users
func (m *LicenseDetailsRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Get retrieve a list of licenseDetails objects for enterprise users. This API returns details for licenses that are
directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder)
Get(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda
76f641a29edf2b242.LicenseDetailsCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsCollectionRespo
nseFromDiscriminatorValue, errorMapping)
    if err != nil {

```

```

        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsCollectionRespon
eable), nil
}
// Post create new navigation property to licenseDetails for users
func (m *LicenseDetailsRequestBuilder) Post(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}
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```

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package licensedetails

```
import (  
    "context"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a  
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"  
    i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d  
    "github.com/microsoftgraph/msgraph-sdk-go/me/licensedetails/count"  
)  
  
// LicenseDetailsRequestBuilder provides operations to manage the licenseDetails property of the  
microsoft.graph.user entity.  
type LicenseDetailsRequestBuilder struct {  
    // Path parameters for the request  
    pathParameters map[string]string  
    // The request adapter to use to execute the requests.  
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter  
    // Url template to use to build the URL
```

```

for the current request builder
    urlTemplate string
}
// LicenseDetailsRequestBuilderGetQueryParameters retrieve a list of licenseDetails objects for enterprise users.
This API returns details for licenses that are directly assigned and those transitively assigned through memberships
in licensed groups.
type LicenseDetailsRequestBuilderGetQueryParameters struct {
    // Include count of items
    Count *bool `uriparametername:"%24count"`
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Filter items by property values
    Filter *string `uriparametername:"%24filter"`
    // Order items by property values
    Orderby []string `uriparametername:"%24orderby"`
    // Search items by search phrases
    Search *string `uriparametername:"%24search"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
    // Skip the first n items
    Skip *int32 `uriparametername:"%24skip"`
    // Show only the first n items

    Top *int32 `uriparametername:"%24top"`
}
// LicenseDetailsRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsRequestBuilderGetQueryParameters
}
// LicenseDetailsRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsRequestBuilderInternal instantiates a new LicenseDetailsRequestBuilder and
sets the default values.
func NewLicenseDetailsRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {

```

```

    m := &LicenseDetailsRequestBuilder{
    }
    m.urlTemplate =
    "{+baseUrl}/me/licenseDetails{ ?%24top,%24skip,%24search,%24filter,%24count,%24orderBy,%24select,%24expa
    nd}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewLicenseDetailsRequestBuilder instantiates a new LicenseDetailsRequestBuilder and sets the default values.
func NewLicenseDetailsRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] =
    rawUrl
    return NewLicenseDetailsRequestBuilderInternal(urlParams, requestAdapter)
}
// Count provides operations to count the resources in the collection.
func (m *LicenseDetailsRequestBuilder)
Count>(*i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d.CountRequestBuilder) {
    return
    i42f9d35e3a534f2a17a3a5947eafd84f445e2635b44c7062b475999b94f9712d.NewCountRequestBuilderInternal(m.p
    athParameters, m.requestAdapter);
}
// CreateGetRequestInformation retrieve a list of licenseDetails objects for enterprise users. This API returns details
for licenses that are directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(*i2ae4187f7dae263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
    i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}

```

```

}
// CreatePostRequestInformation create new navigation property to licenseDetails for me
func (m *LicenseDetailsRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Get retrieve a list of licenseDetails objects for enterprise users. This API returns details for licenses that are
directly assigned and those transitively assigned through memberships in licensed groups.
func (m *LicenseDetailsRequestBuilder) Get(ctx context.Context,
requestConfiguration
*LicenseDetailsRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380dda
76f641a29edf2b242.LicenseDetailsCollectionResponseable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsCollectionRespo
nseFromDiscriminatorValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
}

```

```

return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsCollectionRespon
eable),
nil
}
// Post create new navigation property to licenseDetails for me
func (m *LicenseDetailsRequestBuilder) Post(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err
:= m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable), nil
}

```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsCollectionResponse
```

```
type LicenseDetailsCollectionResponse struct {
```

```
    BaseCollectionPaginationCountResponse
```

```
    // The value property
```

```
    value []LicenseDetailsable
```

```
}
```

```
// NewLicenseDetailsCollectionResponse instantiates a new LicenseDetailsCollectionResponse and sets the default
```

values.

```
func NewLicenseDetailsCollectionResponse>(*LicenseDetailsCollectionResponse) {
    m := &LicenseDetailsCollectionResponse{
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),
    }
    return m
}
// CreateLicenseDetailsCollectionResponseFromDiscriminatorValue creates a new instance of the appropriate class
based on discriminator value
func CreateLicenseDetailsCollectionResponseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewLicenseDetailsCollectionResponse(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *LicenseDetailsCollectionResponse)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateL
icenseDetailsFromDiscriminatorValue , m.SetValue)
    return res
}
// GetValue gets the value property value. The value property
func (m *LicenseDetailsCollectionResponse) GetValue()([]LicenseDetailsable) {
    return m.value
}
// Serialize serializes information the current object
func (m *LicenseDetailsCollectionResponse)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {
            return err
        }
    }
    return nil
}
// SetValue sets the value property value. The value property
```

```

func (m *LicenseDetailsCollectionResponse) SetValue(value []LicenseDetailsable)() {
    m.value = value
}
package assignlicense

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// AssignLicenseRequestBuilder provides operations to call the assignLicense method.
type AssignLicenseRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// AssignLicenseRequestBuilderPostRequestConfiguration configuration for the request such as headers, query
parameters, and
middleware options.
type AssignLicenseRequestBuilderPostRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewAssignLicenseRequestBuilderInternal instantiates a new AssignLicenseRequestBuilder and sets the default
values.
func NewAssignLicenseRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    m := &AssignLicenseRequestBuilder{
    }
    m.urlTemplate = "{+baseurl}/me/microsoft.graph.assignLicense";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}

```

```

}
// NewAssignLicenseRequestBuilder instantiates a new AssignLicenseRequestBuilder and
sets the default values.
func NewAssignLicenseRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*AssignLicenseRequ
estBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewAssignLicenseRequestBuilderInternal(urlParams, requestAdapter)
}
// CreatePostRequestInformation invoke action assignLicense
func (m *AssignLicenseRequestBuilder) CreatePostRequestInformation(ctx context.Context, body
AssignLicensePostRequestBodyable, requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52901
3b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.POST
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// Post invoke action assignLicense
func (m *AssignLicenseRequestBuilder) Post(ctx context.Context, body AssignLicensePostRequestBodyable,
requestConfiguration
*AssignLicenseRequestBuilderPostRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380ddd
a76f641a29edf2b242.Userable, error) {
    requestInfo, err := m.CreatePostRequestInformation(ctx, body, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateUserFromDiscriminatorValue,
errorMapping)

```

```
if err != nil {
    return nil, err
}
if res == nil {
    return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Userable), nil
}
# BSD 3-Clause License
```

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```
package vsphere
```

```
import (  
    "errors"  
    "fmt"  
    "log"
```

```
"context"
```

```
"github.com/hashicorp/terraform-plugin-sdk/v2/helper/schema"
```

```
"github.com/vmware/govmomi/license"
```

```
"github.com/vmware/govmomi/vim25/methods"
```

```
"github.com/vmware/govmomi/vim25/types"
```

```
)
```

```
var (  
    // ErrNoSuchKeyFound is an error primarily thrown by the Read method of the resource.  
    // The error doesn't display the key itself for security reasons.  
    ErrNoSuchKeyFound = errors.New("The key was not found")
```

```

// ErrKeyCannotBeDeleted is an error which occurs when a key that is used by VMs is
// being removed
ErrKeyCannotBeDeleted = errors.New("The key wasn't deleted")
)

```

```

func resourceVSphereLicense() *schema.Resource {
return &schema.Resource{

SchemaVersion: 1,

Create: resourceVSphereLicenseCreate,
Read: resourceVSphereLicenseRead,
Update: resourceVSphereLicenseUpdate,
Delete: resourceVSphereLicenseDelete,

Schema: map[string]*schema.Schema{
"license_key":
{
Type: schema.TypeString,
Required: true,
ForceNew: true,
},
"labels": {
Type: schema.TypeMap,
Optional: true,
Elem: &schema.Schema{Type: schema.TypeString},
},

// computed properties returned by the API
"edition_key": {
Type: schema.TypeString,
Computed: true,
},
"name": {
Type: schema.TypeString,
Computed: true,
},
"total": {
Type: schema.TypeInt,
Computed: true,
},
"used": {
Type: schema.TypeInt,
Computed: true,
},
},
}
}

```

```

func resourceVSphereLicenseCreate(d *schema.ResourceData, meta interface{ }) error {
    log.Println("[INFO] Running the create method")

    client := meta.(*Client).vimClient
    manager := license.NewManager(client.Client)

    key := d.Get("license_key").(string)

    log.Println(" [INFO] Reading the key from the resource data")
    var labelMap map[string]interface{ }
    if labels, ok := d.GetOk("labels"); ok {
        labelMap = labels.(map[string]interface{ })
    }

    var
    info types.LicenseManagerLicenseInfo
    var err error
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        // Labels are not allowed in ESXi
        if len(labelMap) != 0 {
            return errors.New("Labels are not allowed in ESXi")
        }
        info, err = manager.Update(context.TODO(), key, nil)

    case "VirtualCenter":
        info, err = manager.Add(context.TODO(), key, nil)
        if err != nil {
            return err
        }
        err = updateLabels(manager, key, labelMap)

    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    if err != nil {
        return err
    }

    if err = DecodeError(info); err != nil {
        return err
    }

    // This can be used in the read method to set the computed parameters
    d.SetId(info.LicenseKey)

```

```

return resourceVSphereLicenseRead(d, meta)
}

func resourceVSphereLicenseRead(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the read method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if info
:= getLicenseInfoFromKey(d.Get("license_key").(string), manager); info != nil {
log.Println("[INFO] Setting the values")
_ = d.Set("edition_key", info.EditionKey)
_ = d.Set("total", info.Total)
_ = d.Set("used", info.Used)
_ = d.Set("name", info.Name)
_ = d.Set("labels", keyValuesToMap(info.Labels))
} else {
return ErrNoSuchKeyFound
}

return nil
}

// resourceVSphereLicenseUpdate check for change in labels of the key and updates them.
func resourceVSphereLicenseUpdate(d *schema.ResourceData, meta interface{ }) error {
log.Println("[INFO] Running the update method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if key, ok := d.GetOk("license_key"); ok {
licenseKey := key.(string)
if !isKeyPresent(licenseKey, manager) {
return ErrNoSuchKeyFound
}

if d.HasChange("labels") {
labelMap := d.Get("labels").(map[string]interface{ })

err := updateLabels(manager, licenseKey, labelMap)
if err != nil {
return err
}
}
}

return

```

```

resourceVSphereLicenseRead(d, meta)
}

func updateLabels(manager *license.Manager, licenseKey string, labelMap map[string]interface{}) error {
for key, value := range labelMap {
err := UpdateLabel(context.TODO(), manager, licenseKey, key, value.(string))
if err != nil {
return err
}
}
return nil
}

func resourceVSphereLicenseDelete(d *schema.ResourceData, meta interface{}) error {
log.Println("[INFO] Running the delete method")

client := meta.(*Client).vimClient
manager := license.NewManager(client.Client)

if key := d.Get("license_key").(string); isKeyPresent(key, manager) {
err := manager.Remove(context.TODO(), key)

if err != nil {
return err
}

// if the key is still present
if isKeyPresent(key, manager) {
return ErrKeyCannotBeDeleted
}
d.SetId("")
return nil
}
return ErrNoSuchKeyFound
}

func getLicenseInfoFromKey(key string, manager *license.Manager) *types.LicenseManagerLicenseInfo {
// Use of decode is not returning
labels so using list instead
// Issue - https://github.com/vmware/govmomi/issues/797
infoList, _ := manager.List(context.TODO())
for _, info := range infoList {
if info.LicenseKey == key {
return &info
}
}
return nil
}

```

```

// isKeyPresent iterates over the InfoList to check if the license is present or not.
func isKeyPresent(key string, manager *license.Manager) bool {
    infoList, _ := manager.List(context.TODO())

    for _, info := range infoList {
        if info.LicenseKey == key {
            return true
        }
    }

    return false
}

// UpdateLabel provides a wrapper around the UpdateLabel data objects
func UpdateLabel(ctx context.Context, m *license.Manager, licenseKey string, key string, val string) error {
    req := types.UpdateLicenseLabel{
        This:    m.Reference(),
        LicenseKey: licenseKey,
        LabelKey: key,
        LabelValue: val,
    }

    _, err := methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

// DecodeError tries to find a specific error which occurs when an invalid key is passed
//
// to the server
func DecodeError(info types.LicenseManagerLicenseInfo) error {
    for _, property := range info.Properties {
        if property.Key == "diagnostic" {
            return errors.New(property.Value.(string))
        }
    }

    return nil
}

func keyValuesToMap(keyValues []types.KeyValue) map[string]interface{} {
    KVMap := make(map[string]interface{})
    for _, keyValue := range keyValues {
        KVMap[keyValue.Key] = keyValue.Value
    }
    return KVMap
}

```

package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// LicenseProcessingState  
type LicenseProcessingState struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{ }  
    // The OdataType property  
    odataType *string  
    // The state property  
    state *string  
}  
// NewLicenseProcessingState instantiates a new licenseProcessingState and sets the default values.  
func NewLicenseProcessingState(*LicenseProcessingState) {  
    m := &LicenseProcessingState{  
    }  
    m.SetAdditionalData(make(map[string]interface{ }));  
    return m  
}  
// CreateLicenseProcessingStateFromDiscriminatorValue creates a new instance of the appropriate class based on  
discriminator  
value  
func CreateLicenseProcessingStateFromDiscriminatorValue(parseNode  
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896  
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {  
    return NewLicenseProcessingState(), nil  
}  
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI  
description found when deserializing. Can be used for serialization as well.  
func (m *LicenseProcessingState) GetAdditionalData()(map[string]interface{ }) {  
    return m.additionalData  
}  
// GetFieldDeserializers the deserialization information for the current model  
func (m *LicenseProcessingState)  
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f  
91.ParseNode)(error)) {  
    res :=  
    make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err  
or))  
    res["@odata.type"] =  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetOdataType)
```

```

    res["state"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetState)
    return res
}
// GetOdataType gets the @odata.type property value. The OdataType property
func (m *LicenseProcessingState) GetOdataType()*string {
    return m.odatatype
}
// GetState gets the state property value. The state property
func (m *LicenseProcessingState) GetState()*string {
    return m.state
}
// Serialize serializes information the current object
func (m *LicenseProcessingState) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    {
        err := writer.WriteStringValue("@odata.type", m.GetOdataType())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteStringValue("state", m.GetState())
        if err != nil {
            return err
        }
    }
    {
        err := writer.WriteAdditionalData(m.GetAdditionalData())
        if err != nil {
            return err
        }
    }
    return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *LicenseProcessingState) SetAdditionalData(value map[string]interface{}()) {
    m.additionalData = value
}
// SetOdataType sets the @odata.type property value. The OdataType property
func (m *LicenseProcessingState) SetOdataType(value *string) {
    m.odatatype = value
}
// SetState sets the state property value. The state property
func (m *LicenseProcessingState) SetState(value *string) {
    m.state = value
}

```

AWS SDK for Go

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package item

import (

```

"context"
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
"github.com/microsoftgraph/msgraph-sdk-go/models"
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
"github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
)

// LicenseDetailsItemRequestBuilder provides operations to manage the licenseDetails property of the
microsoft.graph.user entity.
type LicenseDetailsItemRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL for the current request builder
    urlTemplate string
}
// LicenseDetailsItemRequestBuilderDeleteRequestConfiguration configuration for the
request such as headers, query parameters, and middleware options.
type LicenseDetailsItemRequestBuilderDeleteRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// LicenseDetailsItemRequestBuilderGetQueryParameters a collection of this user's license details. Read-only.
type LicenseDetailsItemRequestBuilderGetQueryParameters struct {
    // Expand related entities
    Expand []string `uriparametername:"%24expand"`
    // Select properties to be returned
    Select []string `uriparametername:"%24select"`
}
// LicenseDetailsItemRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderGetRequestConfiguration struct {
    // Request headers
    Headers map[string]string
    // Request options
    Options []i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
    // Request query parameters
    QueryParameters *LicenseDetailsItemRequestBuilderGetQueryParameters
}
// LicenseDetailsItemRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type LicenseDetailsItemRequestBuilderPatchRequestConfiguration struct {
    // Request headers

```

```

Headers map[string]string
// Request options
Options []i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewLicenseDetailsItemRequestBuilderInternal instantiates a new LicenseDetailsItemRequestBuilder and sets the
default values.
func NewLicenseDetailsItemRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    m := &LicenseDetailsItemRequestBuilder{
    }
    m.urlTemplate =
"+baseUrl}/users/{user%2Did}/licenseDetails/{licenseDetails%2Did}{?%24select,%24expand}";
    urlTplParams := make(map[string]string)
    for idx, item := range pathParameters {
        urlTplParams[idx] = item
    }
    m.pathParameters = urlTplParams;
    m.requestAdapter = requestAdapter;
    return m
}
// NewLicenseDetailsItemRequestBuilder instantiates a new LicenseDetailsItemRequestBuilder and sets the default
values.
func NewLicenseDetailsItemRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*LicenseDetailsItem
RequestBuilder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewLicenseDetailsItemRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property licenseDetails for users
func (m *LicenseDetailsItemRequestBuilder) CreateDeleteRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation a collection of this user's license details. Read-only.

```

```

func (m *LicenseDetailsItemRequestBuilder) CreateGetRequestInformation(ctx context.Context,
requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa52
9013b7437480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}

// CreatePatchRequestInformation update the navigation property licenseDetails in users
func (m *LicenseDetailsItemRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa
529013b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}

// Delete delete navigation property licenseDetails for users
func (m *LicenseDetailsItemRequestBuilder) Delete(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderDeleteRequestConfiguration)(error)
{
    requestInfo, err := m.CreateDeleteRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {

```

```

    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}
// Get a collection of this user's license details. Read-only.
func (m *LicenseDetailsItemRequestBuilder) Get(ctx context.Context, requestConfiguration
*LicenseDetailsItemRequestBuilderGetRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de0380
ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx,
requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
    if err != nil {
        return nil, err
    }
    if res == nil {
        return nil, nil
    }
    return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}
// Patch update the navigation property licenseDetails in users
func (m *LicenseDetailsItemRequestBuilder) Patch(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable,
requestConfiguration
*LicenseDetailsItemRequestBuilderPatchRequestConfiguration)(iadcd81124412c61e647227ecfc4449d8bba17de03
80ddda76f641a29edf2b242.LicenseDetailsable, error) {
    requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);

```

```

if err != nil {
    return nil, err
}
errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
}
res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateLicenseDetailsFromDiscriminat
orValue, errorMapping)
if err != nil {
    return nil, err
}
if res == nil {
    return nil, nil
}
return
res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.LicenseDetailsable), nil
}

```

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```
package spec
```

```
import (
```

```
    "encoding/json"
```

```
    "github.com/go-openapi/swag"
```

```
)
```

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
```

```
    LicenseProps
```

```

VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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package grant

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// GrantPostRequestBody provides operations to call the grant method.  
type GrantPostRequestBody struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{}  
    // The recipients property  
    recipients []iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.DriveRecipientable  
    // The roles property  
    roles []string  
}  
  
// NewGrantPostRequestBody instantiates a new grantPostRequestBody and sets the default values.  
func NewGrantPostRequestBody>(*GrantPostRequestBody)  
{  
    m := &GrantPostRequestBody{
```

```

    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateGrantPostRequestBodyFromDiscriminatorValue creates a new instance of the appropriate class based on
discriminator value
func CreateGrantPostRequestBodyFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewGrantPostRequestBody(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *GrantPostRequestBody) GetAdditionalData()(map[string]interface{} ) {
    return m.additionalData
}
// GetFieldDeserializers the deserialization information for the current model
func (m *GrantPostRequestBody)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error))
{
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["recipients"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.CreateDriveRecipientFromDiscriminatorValu
e , m.SetRecipients)
    res["roles"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRoles)
    return res
}
// GetRecipients gets the recipients property value. The recipients property
func (m *GrantPostRequestBody)
GetRecipients()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.DriveRecipientable)
{
    return m.recipients
}
// GetRoles gets the roles property value. The roles property
func (m *GrantPostRequestBody) GetRoles()([]string) {
    return m.roles
}
// Serialize serializes information the current object
func
(m *GrantPostRequestBody) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetRecipients() != nil {

```

```

    cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetRecipients())
    err := writer.WriteCollectionOfObjectValues("recipients", cast)
    if err != nil {
        return err
    }
}
if m.GetRoles() != nil {
    err := writer.WriteCollectionOfStringValues("roles", m.GetRoles())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization
as well.
func (m *GrantPostRequestBody) SetAdditionalData(value map[string]interface{})() {
    m.additionalData = value
}
// SetRecipients sets the recipients property value. The recipients property
func (m *GrantPostRequestBody) SetRecipients(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.DriveRecipientable)() {
    m.recipients = value
}
// SetRoles sets the roles property value. The roles property
func (m *GrantPostRequestBody) SetRoles(value []string)() {
    m.roles = value
}
package assignlicense

import (
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-
abstractions-go/serialization"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
"github.com/microsoftgraph/msgraph-sdk-go/models"
)

// AssignLicensePostRequestBodyable
type AssignLicensePostRequestBodyable interface {

```

```
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
GetAddLicenses()([]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicense
able)
  GetRemoveLicenses()([]string)
  SetAddLicenses(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable)()
  SetRemoveLicenses(value []string)()
}
```

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Files: s2/cmd/internal/readahead/*

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Files: snappy/*
Files: internal/snappref/*

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Files: s2/cmd/internal/filepathx/*

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// Package misspell corrects commonly misspelled English words in source files.

package misspell

// Legal provides licensing info.

const Legal = `

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* <https://golang.org/pkg/strings/#Replacer>

* <https://golang.org/src/strings/replace.go>

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package models

```
import (  
    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)  
  
// Permission provides operations to manage the collection of agreement entities.  
type Permission struct {  
    Entity  
    // A format of yyyy-MM-ddTHH:mm:ssZ of DateTimeOffset indicates the expiration time of the permission.  
    // DateTime.MinValue indicates there is no expiration set for this permission. Optional.  
    expirationDateTime *i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time  
    // The grantedTo property  
    grantedTo IdentitySetable  
    // The grantedToIdentities property  
    grantedToIdentities []IdentitySetable  
    // For link type permissions, the details of the users to whom permission was granted. Read-only.  
  
    grantedToIdentitiesV2 []SharePointIdentitySetable  
    // For user type permissions, the details of the users and applications for this permission. Read-only.  
    grantedToV2 SharePointIdentitySetable  
    // Indicates whether the password is set for this permission. This property only appears in the response. Optional.  
    // Read-only. For OneDrive Personal only..  
    hasPassword *bool  
    // Provides a reference to the ancestor of the current permission, if it is inherited from an ancestor. Read-only.  
    inheritedFrom ItemReferenceable
```

```

// Details of any associated sharing invitation for this permission. Read-only.
invitation SharingInvitationable
// Provides the link details of the current permission, if it is a link type permissions. Read-only.
link SharingLinkable
// The type of permission, for example, read. See below for the full list of roles. Read-only.
roles []string
// A unique token that can be used to access this shared item via the **shares** API. Read-only.
shareId *string
}
// NewPermission instantiates a new permission and sets the default values.
func NewPermission>(*Permission) {
    m := &Permission{
        Entity: *NewEntity(),
    }
    return m
}
// CreatePermissionFromDiscriminatorValue creates a new instance of the appropriate class based on discriminator
value
func CreatePermissionFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewPermission(), nil
}
// GetExpirationDateTime gets the expirationDateTime property value. A format of yyyy-MM-ddTHH:mm:ssZ of
DateTimeOffset indicates the expiration time of the permission. DateTime.MinValue indicates there is no expiration
set for this permission. Optional.
func (m *Permission)
GetExpirationDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time) {
    return m.expirationDateTime
}
// GetFieldDeserializers
the deserialization information for the current model
func (m *Permission)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.Entity.GetFieldDeserializers()
    res["expirationDateTime"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetTimeValue(m.SetExpirationDateTi
me)
    res["grantedTo"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateIdentitySetFro
mDiscriminatorValue , m.SetGrantedTo)
    res["grantedToIdentities"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateId
entitySetFromDiscriminatorValue , m.SetGrantedToIdentities)
    res["grantedToIdentitiesV2"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateS
harePointIdentitySetFromDiscriminatorValue , m.SetGrantedToIdentitiesV2)

```

```

    res["grantedToV2"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharePointIdent
itySetFromDiscriminatorValue
, m.SetGrantedToV2)
    res["hasPassword"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetBoolValue(m.SetHasPassword)
    res["inheritedFrom"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateItemReferenceF
romDiscriminatorValue , m.SetInheritedFrom)
    res["invitation"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharingInvitati
onFromDiscriminatorValue , m.SetInvitation)
    res["link"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetObjectValue(CreateSharingLinkFro
mDiscriminatorValue , m.SetLink)
    res["roles"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRoles)
    res["shareId"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetStringValue(m.SetShareId)
    return res
}
// GetGrantedTo gets the grantedTo property value. The grantedTo property
func (m *Permission) GetGrantedTo()(IdentitySetable) {
    return m.grantedTo
}
// GetGrantedToIdentities gets the grantedToIdentities property value. The grantedToIdentities property
func (m *Permission) GetGrantedToIdentities()([]IdentitySetable) {
    return m.grantedToIdentities
}
// GetGrantedToIdentitiesV2 gets the grantedToIdentitiesV2 property value. For link type permissions, the details of
the users to whom permission was granted. Read-only.
func (m *Permission) GetGrantedToIdentitiesV2()([]SharePointIdentitySetable) {
    return m.grantedToIdentitiesV2
}
// GetGrantedToV2 gets the grantedToV2 property value. For user type permissions, the details of the users and
applications for this permission. Read-only.
func (m *Permission) GetGrantedToV2()(SharePointIdentitySetable) {
    return m.grantedToV2
}
// GetHasPassword gets the hasPassword property value. Indicates whether
the password is set for this permission. This property only appears in the response. Optional. Read-only. For
OneDrive Personal only..
func (m *Permission) GetHasPassword>(*bool) {
    return m.hasPassword
}
// GetInheritedFrom gets the inheritedFrom property value. Provides a reference to the ancestor of the current
permission, if it is inherited from an ancestor. Read-only.

```

```

func (m *Permission) GetInheritedFrom()(ItemReferenceable) {
    return m.inheritedFrom
}
// GetInvitation gets the invitation property value. Details of any associated sharing invitation for this permission.
Read-only.
func (m *Permission) GetInvitation()(SharingInvitationable) {
    return m.invitation
}
// GetLink gets the link property value. Provides the link details of the current permission, if it is a link type
permissions. Read-only.
func (m *Permission) GetLink()(SharingLinkable) {
    return m.link
}
// GetRoles gets the roles property value. The type of permission, for example, read. See below for the
full list of roles. Read-only.
func (m *Permission) GetRoles()([]string) {
    return m.roles
}
// GetShareId gets the shareId property value. A unique token that can be used to access this shared item via the
**shares** API. Read-only.
func (m *Permission) GetShareId>(*string) {
    return m.shareId
}
// Serialize serializes information the current object
func (m *Permission) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.Entity.Serialize(writer)
    if err != nil {
        return err
    }
    {
        err = writer.WriteTimeValue("expirationDateTime", m.GetExpirationDateTime())
        if err != nil {
            return err
        }
    }
    {
        err = writer.WriteObjectValue("grantedTo", m.GetGrantedTo())
        if err != nil {
            return err
        }
    }
    if m.GetGrantedToIdentities() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetGrantedToIdentities())
        err = writer.WriteCollectionOfObjectValues("grantedToIdentities", cast)
        if err != nil {

```

```

        return err
    }
}
if m.GetGrantedToIdentitiesV2() != nil {
    cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetGrantedToIdentitiesV2())
    err = writer.WriteCollectionOfObjectValues("grantedToIdentitiesV2", cast)
    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("grantedToV2", m.GetGrantedToV2())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteBoolValue("hasPassword", m.GetHasPassword())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("inheritedFrom", m.GetInheritedFrom())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("invitation", m.GetInvitation())
    if err != nil {
        return err
    }
}
{
    err = writer.WriteObjectValue("link", m.GetLink())
    if err != nil {
        return err
    }
}
if m.GetRoles() != nil {
    err = writer.WriteCollectionOfStringValues("roles", m.GetRoles())
    if err != nil {
        return err
    }
}
}

```

```

    {
        err = writer.WriteStringValue("shareId", m.GetShareId())
        if err != nil {
            return err
        }
    }
    return nil
}

// SetExpirationDateTime sets the expirationDateTime property value. A format of yyyy-MM-ddTHH:mm:ssZ of
// DateTimeOffset indicates the expiration time of the permission. DateTime.MinValue indicates there is no expiration
// set for this permission. Optional.
func (m *Permission) SetExpirationDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)()
{
    m.expirationDateTime = value
}

// SetGrantedTo sets the grantedTo property value. The grantedTo property
func (m *Permission) SetGrantedTo(value IdentitySetable)() {
    m.grantedTo = value
}

// SetGrantedToIdentities sets the grantedToIdentities property value. The grantedToIdentities property
func (m *Permission) SetGrantedToIdentities(value []IdentitySetable)() {
    m.grantedToIdentities = value
}

// SetGrantedToIdentitiesV2 sets the grantedToIdentitiesV2 property value. For link type permissions, the details of
// the users to whom permission was granted. Read-only.
func (m *Permission) SetGrantedToIdentitiesV2(value []SharePointIdentitySetable)() {
    m.grantedToIdentitiesV2 = value
}

// SetGrantedToV2 sets the grantedToV2 property value. For user type permissions, the details of the users and
// applications for this permission. Read-only.
func (m *Permission) SetGrantedToV2(value SharePointIdentitySetable)() {
    m.grantedToV2 = value
}

//
SetHasPassword sets the hasPassword property value. Indicates whether the password is set for this permission.
This property only appears in the response. Optional. Read-only. For OneDrive Personal only..
func (m *Permission) SetHasPassword(value *bool)() {
    m.hasPassword = value
}

// SetInheritedFrom sets the inheritedFrom property value. Provides a reference to the ancestor of the current
// permission, if it is inherited from an ancestor. Read-only.
func (m *Permission) SetInheritedFrom(value ItemReferenceable)() {
    m.inheritedFrom = value
}

// SetInvitation sets the invitation property value. Details of any associated sharing invitation for this permission.
// Read-only.
func (m *Permission) SetInvitation(value SharingInvitationable)() {

```

```

    m.invitation = value
}
// SetLink sets the link property value. Provides the link details of the current permission, if it is a link type
permissions. Read-only.
func (m *Permission) SetLink(value SharingLinkable)() {
    m.link = value
}
//
SetRoles sets the roles property value. The type of permission, for example, read. See below for the full list of roles.
Read-only.
func (m *Permission) SetRoles(value []string)() {
    m.roles = value
}
// SetShareId sets the shareId property value. A unique token that can be used to access this shared item via the
**shares** API. Read-only.
func (m *Permission) SetShareId(value *string)() {
    m.shareId = value
}
}

```

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package models

```
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    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseUnitsDetailable
```

```
type LicenseUnitsDetailable interface {  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetEnabled()*int32  
    GetOdataType()*string  
    GetSuspended()*int32  
    GetWarning()*int32  
    SetEnabled(value *int32)()  
    SetOdataType(value *string)()  
    SetSuspended(value *int32)()  
    SetWarning(value *int32)()  
}
```

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protoc-gen-validate

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package models

```
import (  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseDetailsCollectionResponseable
```

```
type LicenseDetailsCollectionResponseable interface {  
    BaseCollectionPagingCountResponseable  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable  
    GetValue()([]LicenseDetailsable)  
    SetValue(value []LicenseDetailsable())  
}
```

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package models

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// AssignedLicenseCollectionResponse
```

```

type AssignedLicenseCollectionResponse struct {
    BaseCollectionPaginationCountResponse
    // The value property
    value []AssignedLicenseable
}
// NewAssignedLicenseCollectionResponse instantiates a new AssignedLicenseCollectionResponse and sets the
default values.
func NewAssignedLicenseCollectionResponse>(*AssignedLicenseCollectionResponse) {
    m := &AssignedLicenseCollectionResponse{
        BaseCollectionPaginationCountResponse: *NewBaseCollectionPaginationCountResponse(),
    }
    return m
}
// CreateAssignedLicenseCollectionResponseFromDiscriminatorValue creates a new instance of the appropriate
class based on discriminator value
func CreateAssignedLicenseCollectionResponseFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignedLicenseCollectionResponse(), nil
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignedLicenseCollectionResponse)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res := m.BaseCollectionPaginationCountResponse.GetFieldDeserializers()
    res["value"] =
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(CreateA
ssignedLicenseFromDiscriminatorValue , m.SetValue)
    return res
}
// GetValue gets the value property value. The value property
func (m *AssignedLicenseCollectionResponse) GetValue()([]AssignedLicenseable) {
    return m.value
}
// Serialize serializes information the current object
func (m *AssignedLicenseCollectionResponse)
Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    err := m.BaseCollectionPaginationCountResponse.Serialize(writer)
    if err != nil {
        return err
    }
    if m.GetValue() != nil {
        cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetValue())
        err = writer.WriteCollectionOfObjectValues("value", cast)
        if err != nil {

```

```
        return err
    }
}
return nil
}
// SetValue sets the value property value. The value property
func (m *AssignedLicenseCollectionResponse) SetValue(value []AssignedLicenseable)() {
    m.value = value
}
}
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```

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```
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    i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e "time"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
)
```

```
// LicenseAssignmentStateable  
type LicenseAssignmentStateable interface {
```

```

i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.AdditionalDataHolder
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable
GetAssignedByGroup>(*string)
GetDisabledPlans([]string)
GetError>(*string)
GetLastUpdatedDateTime>(*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)
GetOdataType(*string)
GetSkuld(*string)
GetState(*string)
SetAssignedByGroup(value *string)()
SetDisabledPlans(value []string)()
SetError(value *string)()
SetLastUpdatedDateTime(value
*i336074805fc853987abe6f7fe3ad97a6a6f3077a16391fec744f671a015fbd7e.Time)()
SetOdataType(value *string)()

```

```

SetSkuld(value *string)()
SetState(value *string)()
}

```

```
package permission
```

```

import (
    "context"
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-
abstractions-go"
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242
    "github.com/microsoftgraph/msgraph-sdk-go/models"
    ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a
    "github.com/microsoftgraph/msgraph-sdk-go/models/odataerrors"
    ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8
    "github.com/microsoftgraph/msgraph-sdk-go/shares/item/permission/grant"
)

```

```
// PermissionRequestBuilder provides operations to manage the permission property of the
microsoft.graph.sharedDriveItem entity.
```

```

type PermissionRequestBuilder struct {
    // Path parameters for the request
    pathParameters map[string]string
    // The request adapter to use to execute the requests.
    requestAdapter i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter
    // Url template to use to build the URL
    for the current request builder
    urlTemplate string
}

```

```
// PermissionRequestBuilderDeleteRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
```

```

type PermissionRequestBuilderDeleteRequestConfiguration struct {
    // Request headers

```

```

Headers map[string]string
// Request options
Options [i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// PermissionRequestBuilderGetQueryParameters used to access the permission representing the underlying sharing
link
type PermissionRequestBuilderGetQueryParameters struct {
// Expand related entities
Expand []string `uriparametername:"%24expand"`
// Select properties to be returned
Select []string `uriparametername:"%24select"`
}
// PermissionRequestBuilderGetRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderGetRequestConfiguration struct {
// Request
headers
Headers map[string]string
// Request options
Options [i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
// Request query parameters
QueryParameters *PermissionRequestBuilderGetQueryParameters
}
// PermissionRequestBuilderPatchRequestConfiguration configuration for the request such as headers, query
parameters, and middleware options.
type PermissionRequestBuilderPatchRequestConfiguration struct {
// Request headers
Headers map[string]string
// Request options
Options [i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestOption
}
// NewPermissionRequestBuilderInternal instantiates a new PermissionRequestBuilder and sets the default values.
func NewPermissionRequestBuilderInternal(pathParameters map[string]string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*PermissionRequest
Builder) {
m := &PermissionRequestBuilder{
}
m.urlTemplate
= "{+baseurl}/shares/{sharedDriveItem%2Ddid}/permission{?%24select,%24expand}";
urlTplParams := make(map[string]string)
for idx, item := range pathParameters {
urlTplParams[idx] = item
}
m.pathParameters = urlTplParams;
m.requestAdapter = requestAdapter;
return m
}
// NewPermissionRequestBuilder instantiates a new PermissionRequestBuilder and sets the default values.

```

```

func NewPermissionRequestBuilder(rawUrl string, requestAdapter
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.RequestAdapter)(*PermissionRequest
Builder) {
    urlParams := make(map[string]string)
    urlParams["request-raw-url"] = rawUrl
    return NewPermissionRequestBuilderInternal(urlParams, requestAdapter)
}
// CreateDeleteRequestInformation delete navigation property permission for shares
func (m *PermissionRequestBuilder) CreateDeleteRequestInformation(ctx context.Context, requestConfiguration
*PermissionRequestBuilderDeleteRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013
b7437480d1ec0158f.RequestInformation,
error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.DELETE
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreateGetRequestInformation used to access the permission representing the underlying sharing link
func (m *PermissionRequestBuilder) CreateGetRequestInformation(ctx context.Context, requestConfiguration
*PermissionRequestBuilderGetRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b74
37480d1ec0158f.RequestInformation, error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.GET
    requestInfo.Headers["Accept"] = "application/json"
    if requestConfiguration != nil {
        if requestConfiguration.QueryParameters != nil {
            requestInfo.AddQueryParameters(*(requestConfiguration.QueryParameters))
        }
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}
// CreatePatchRequestInformation update the navigation property permission in shares
func (m *PermissionRequestBuilder) CreatePatchRequestInformation(ctx context.Context, body
iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable, requestConfiguration
*PermissionRequestBuilderPatchRequestConfiguration)(*i2ae4187f7daee263371cb1c977df639813ab50ffa529013b
7437480d1ec0158f.RequestInformation,

```

```

error) {
    requestInfo :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.NewRequestInformation()
    requestInfo.UrlTemplate = m.urlTemplate
    requestInfo.PathParameters = m.pathParameters
    requestInfo.Method = i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.PATCH
    requestInfo.Headers["Accept"] = "application/json"
    requestInfo.SetContentFromParsable(ctx, m.requestAdapter, "application/json", body)
    if requestConfiguration != nil {
        requestInfo.AddRequestHeaders(requestConfiguration.Headers)
        requestInfo.AddRequestOptions(requestConfiguration.Options)
    }
    return requestInfo, nil
}

// Delete delete navigation property permission for shares
func (m *PermissionRequestBuilder) Delete(ctx context.Context, requestConfiguration
*PermissionRequestBuilderDeleteRequestConfiguration)(error) {
    requestInfo, err := m.CreateDeleteRequestInformation(ctx,
requestConfiguration);
    if err != nil {
        return err
    }
    errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
        "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    }
    err = m.requestAdapter.SendNoContentAsync(ctx, requestInfo, errorMapping)
    if err != nil {
        return err
    }
    return nil
}

// Get used to access the permission representing the underlying sharing link
func (m *PermissionRequestBuilder) Get(ctx context.Context, requestConfiguration
*PermissionRequestBuilderGetRequestConfiguration)(iadc81124412c61e647227ecfc4449d8bba17de0380ddda76f
641a29edf2b242.Permissionable, error) {
    requestInfo, err := m.CreateGetRequestInformation(ctx, requestConfiguration);
    if err != nil {
        return nil, err
    }
    errorMapping
:= i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
        "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator

```

```

Value,
  "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminator
Value, errorMapping)
  if err != nil {
    return nil, err
  }
  if res == nil {
    return nil, nil
  }
  return res.(iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable), nil
}
// Grant provides operations to call the grant method.
func (m *PermissionRequestBuilder)
Grant>(*ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8.GrantRequestBuilder) {
  return
ice16248649874c4f53a6ccca26d322258367e4d96355a2112af001ede7238e8.NewGrantRequestBuilderInternal(m.p
athParameters,
  m.requestAdapter);
}
// Patch update the navigation property permission in shares
func (m *PermissionRequestBuilder) Patch(ctx context.Context, body
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.Permissionable, requestConfiguration
*PermissionRequestBuilderPatchRequestConfiguration)(iaacd81124412c61e647227ecfc4449d8bba17de0380dda7
6f641a29edf2b242.Permissionable, error) {
  requestInfo, err := m.CreatePatchRequestInformation(ctx, body, requestConfiguration);
  if err != nil {
    return nil, err
  }
  errorMapping := i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.ErrorMappings {
    "4XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
    "5XX":
ia572726a95efa92ddd544552cd950653dc691023836923576b2f4bf716cf204a.CreateODataErrorFromDiscriminator
Value,
  }
  res, err := m.requestAdapter.SendAsync(ctx, requestInfo,
iaacd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreatePermissionFromDiscriminator
Value,
  errorMapping)
  if err != nil {
    return nil, err
  }
}

```

```
if res == nil {
    return nil, nil
}
return res.(iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.Permissionable), nil
}
```

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package assignlicense

```
import (  
    i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f "github.com/microsoft/kiota-  
abstractions-go"  
    i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91 "github.com/microsoft/kiota-  
abstractions-go/serialization"  
    iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242  
    "github.com/microsoftgraph/msgraph-sdk-go/models"  
)  
  
// AssignLicensePostRequestBody provides operations to call the assignLicense method.  
type AssignLicensePostRequestBody struct {  
    // Stores additional data not described in the OpenAPI description found when deserializing. Can be used for  
    serialization as well.  
    additionalData map[string]interface{}  
    // The addLicenses property  
    addLicenses []iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable  
    // The removeLicenses property  
    removeLicenses []string  
}  
  
// NewAssignLicensePostRequestBody instantiates a new assignLicensePostRequestBody and sets the  
default values.  
func NewAssignLicensePostRequestBody>(*AssignLicensePostRequestBody) {  
    m := &AssignLicensePostRequestBody{
```

```

    }
    m.SetAdditionalData(make(map[string]interface{}));
    return m
}
// CreateAssignLicensePostRequestBodyFromDiscriminatorValue creates a new instance of the appropriate class
based on discriminator value
func CreateAssignLicensePostRequestBodyFromDiscriminatorValue(parseNode
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(i878a80d2330e89d26896
388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable, error) {
    return NewAssignLicensePostRequestBody(), nil
}
// GetAdditionalData gets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignLicensePostRequestBody) GetAdditionalData()(map[string]interface{}) {
    return m.additionalData
}
// GetAddLicenses gets the addLicenses property value. The addLicenses
property
func (m *AssignLicensePostRequestBody)
GetAddLicenses()([]iadcd81124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.AssignedLicense
able) {
    return m.addLicenses
}
// GetFieldDeserializers the deserialization information for the current model
func (m *AssignLicensePostRequestBody)
GetFieldDeserializers()(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f
91.ParseNode)(error)) {
    res :=
make(map[string]func(i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.ParseNode)(err
or))
    res["addLicenses"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfObjectValues(iadcd81
124412c61e647227ecfc4449d8bba17de0380dda76f641a29edf2b242.CreateAssignedLicenseFromDiscriminatorVal
ue , m.SetAddLicenses)
    res["removeLicenses"] =
i2ae4187f7dae263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.SetCollectionOfPrimitiveValues("strin
g" , m.SetRemoveLicenses)
    return res
}
// GetRemoveLicenses gets the
removeLicenses property value. The removeLicenses property
func (m *AssignLicensePostRequestBody) GetRemoveLicenses()([]string) {
    return m.removeLicenses
}
// Serialize serializes information the current object
func (m *AssignLicensePostRequestBody) Serialize(writer
i878a80d2330e89d26896388a3f487eef27b0a0e6c010c493bf80be1452208f91.SerializationWriter)(error) {
    if m.GetAddLicenses() != nil {

```

```

    cast :=
i2ae4187f7daee263371cb1c977df639813ab50ffa529013b7437480d1ec0158f.CollectionCast[i878a80d2330e89d268
96388a3f487eef27b0a0e6c010c493bf80be1452208f91.Parsable](m.GetAddLicenses())
    err := writer.WriteCollectionOfObjectValues("addLicenses", cast)
    if err != nil {
        return err
    }
}
if m.GetRemoveLicenses() != nil {
    err := writer.WriteCollectionOfStringValues("removeLicenses", m.GetRemoveLicenses())
    if err != nil {
        return err
    }
}
{
    err := writer.WriteAdditionalData(m.GetAdditionalData())
    if err != nil {
        return err
    }
}
return nil
}
// SetAdditionalData sets the additionalData property value. Stores additional data not described in the OpenAPI
description found when deserializing. Can be used for serialization as well.
func (m *AssignLicensePostRequestBody) SetAdditionalData(value map[string]interface{})( ) {
    m.additionalData = value
}
// SetAddLicenses sets the addLicenses property value. The addLicenses property
func (m *AssignLicensePostRequestBody) SetAddLicenses(value
[]iadcd81124412c61e647227ecfc4449d8bba17de0380ddda76f641a29edf2b242.AssignedLicenseable)( ) {
    m.addLicenses = value
}
// SetRemoveLicenses sets the removeLicenses property value. The removeLicenses property
func (m *AssignLicensePostRequestBody) SetRemoveLicenses(value []string)( ) {
    m.removeLicenses = value
}

```

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