演示透過Secure Firewall的API-Explorer導航

簡介

本檔案介紹透過Cisco FMC和Cisco FDM的應用程式設計介面(API)總管進行導覽。

必要條件

對REST API的基本瞭解。

需求

本演示要求能夠訪問Firepower管理中心(FMC) GUI,其中至少有一個裝置由此Firepower管理中心 (FMC)管理。對於本演示的FDM部分,需要本地管理Firepower威脅防禦(FTD)才能訪問FDM GUI。

採用元件

- FMCv
- FTDv
- FTDv本地管理

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

透過FMC API Explorer檢視導航

要訪問FMC API瀏覽器,請導航到下一個URL:

https://<FMC_mgmt_IP>/api/api-explorer

必須使用與FMC GUI相同的憑證登入。當您輸入API總管URL時,這些證明資料會輸入於類似下一個視窗的視窗中。

2	Sign in to	access this site
	Authorization Your connect	n required by https://10.88.243.36:43162 tion to this site is not secure
1	Username	
1	Password	
		Sign in Cancel

登入後,可以看到API查詢被劃分成與使用API可能進行的呼叫相對應的類別。



注意:並非所有可從GUI或CLI使用的配置功能都可以透過API使用。

▲ No seguro https://10.88.243.36:43162/api/api-explorer/	A ^N 85 G	□ □ ☆ ③	🕑
alialia cisco	Download OAS 2.0 Spec	Download OAS 3.0 Spec	Logout
Cisco Firewall Management Center Open API Specifica	ation 🚥 🚥		
Jimc_oas3 json		f	
Specifies the REST URLs and methods supported in the Cisco Firewall Management Center API. Refer to the version specific <u>RESTAPIOU</u> Cisco Technical Assistance Center (TAC) - Website Send email to Cisco Technical Assistance Center (TAC) Cisco Firewall Management Center Licensing	ick Start Guide for additional in	formation.	
Domains Global			I
Troubleshoot			>
Backup			>
Network Map			>
Devices			>
Policy Assignments			>
Device HA Pairs			>
Health			>

按一下某個類別時,它會展開,顯示此類別的可用呼叫。這些呼叫會與其各自的REST方法和該呼 叫的通用資源識別符號(URI)一起顯示。

Integration	>
Device Groups	>
Status	>
Device Clusters	>
System Information	>
Object	>
Policy	~
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{objectId}	
PUT /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{objectId}	
DELETE /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{objectId}	
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies	
POST /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies	
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules/{objectId}	

在下一個示例中,您請求檢視FMC中配置的訪問策略。按一下相應的方法將其展開,然後按一下 Try it out按鈕。

需要強調的是,您可以使用每個API呼叫中的可用引數來引數化查詢。只有帶有紅色星號的那些是 必需的,其它的則可以留空。

GET /api/fmc	:_config/v1/domain/{domainUUID}/policy/accesspolicies	
Retrieves, deletes, cro	eates, or modifies the access control policy associated with the specified ID. Also, retrieves list of all access control policies.	
Parameters	Try it	t out
Name	Description	
name string (query)	If parameter is specified, only the policy matching with the specified name will be displayed. Cannot be used if object ID is specified in path.	
	name - If parameter is specified, only the poli	
filter string (query)	Value is of format (including quotes): "locked:{true/false}" locked query parameter when set to 'true' returns list of Access Policies which are locked and when set to 'false' returns policies which are unlocked.	
	filter - Value is of format (including quotes): <	
Offset integer(\$int32) (query)	Index of first item to return.	
	offset - Index of first item to return.	
limit integer(\$int32) (query)	Number of items to return.	
	limit - Number of items to return.	
expanded	If set to true, the GET response displays a list of objects with additional attributes.	

例如,對於所有API呼叫,domainUUID都是必需的,但在API Explorer上,會自動填充該值。

下一步是按一下Execute進行此呼叫。

name string (auery)	If parameter is specified, only the policy matching with the specified name will be displayed. Cannot be used if object ID is specified in path.
(1))	name - If parameter is specified, only the poli
filter string (query)	Value is of format (including quotes): "locked:{true false}" locked query parameter when set to 'true' returns list of Access Policies which are locked and when set to 'false' returns policies which are unlocked.
	filter - Value is of format (including quotes): <
Offset integer(\$int32) (query)	Index of first item to return.
	offset - Index of first item to return.
limit integer(\$int32) (query)	Number of items to return.
	limit - Number of items to return.
expanded boolean (query)	If set to true, the GET response displays a list of objects with additional attributes.
<pre>domainUUID * required string (poth)</pre>	Domain UUID
	e276abec-e0f2-11e3-8169-6d9ed49b625f
	Execute

按一下「執行」之前,您可以檢視呼叫回應的範例,瞭解根據要求是否正確,您可以取得哪些可能 的回應。

Execute								
Respons								
Incopone								
Code	Description	Links						
200	ок	No links						
	Media type Examples							
	application/json v Example 1 : GET /fmc_config/v1/domain/DomainUUID/policy/accesspolicies (Test GET ALL Success of Acc v							
	Controls Accept header.							
	<pre>{ "links": "/fmc_config/vl/domain/DomainUUID/policy/accesspolicies?offset=8&limit=2", "items": [{ "type": "AccessPolicy_updated", "description": "policy to test FMC implementation", "id": "id_of_default_action", "type": "AccessPolicy/DefaultAction" } }, { "type": "AccessPolicy_updated", "type": "AccessPolicy_updated", "type": "AccessPolicy_updated", "description": "policy to test FMC implementation", "description": "policy to test FMC implementation", "type": "AccessPolicy2_updated", "type": "AccessPolicy2_updated", "description": "policy to test FMC implementation", "defaultAction": "policy to test FMC implementation", "defaultAction": "policy to test FMC implementation", "type": "AccessPolicy2_updated", "defaultAction": "policy to test FMC implementation", "defaultAction": "policy to test FMC implementation", "type": "AccessPolicy2_updated", "description: "policy to test FMC implementation", "defaultAction": "policy to test FMC implementation", "defaultAction": "policy to test FMC implementation", "type": "AccessPolicyDefaultAction", "type": "Ac</pre>							

執行API呼叫後,您將獲得響應代碼以及響應負載。在此例中為200,對應於OK請求。 您還會獲取 剛剛進行的呼叫的cURL和URL。如果您要透過外部客戶端/軟體進行此呼叫,此資訊將非常有用。

所獲得的答案會傳回FMC中設定的ACP及其objectID。在此情況下,您可以在下一個影像的紅色方 塊中看到此資訊:

	Execute	Clear	
Response	S		
Curl -X ' 'https: -H 'acc -H 'X-a Request UR	GET' \ //10.88.243.36:43162/api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/pol ept: application/json' \ uth-access-token: d1594a50-3f98-4519-875b-50c70b454552' L	icy/accesspolicies' \	1
https://:		y/accesspolicies	
Code	Details		
200	Response body		
	<pre>{ "links": { "self": "https://10.88.243.36:43162/api/fmc_config/vl/domain/e276abec-e0f2-lle }, "itens": [</pre>	3-8169-6d9ed49b625f/policy/accesspolicies?offset=0&limit=25" -11e3-8169-6d9ed49b625f/policy/accesspolicies/00505683-186A-0ed3-0000-004294967299"	Download

此objectID是您在需要參照此ACP的呼叫中輸入的值。例如,在此ACP內建立規則。

包含大括弧{}之間值的URI是進行此呼叫所需的值。 請記住,domainUUID是唯一自動填充的值。

GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules/{objectId}
PUT /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules/{objectId}
DELETE /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules/{objectId}
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules
PUT /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules
POST /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules
DELETE /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/defaultactions/{objectId}
PUT /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/defaultactions/{objectId}
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/loggingsettings/{objectId}
PUT /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/loggingsettings/{objectId}
GET /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/operational/hitcounts
PUT /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/operational/hitcounts
DELETE /ani/fmc.config/v1/domain//domain/UITD\/nolicy/accessnolicies//container/UITD\/onerational/hitcounts

這些呼叫所需的值在呼叫描述中指定。若要建立ACP的規則,您需要原則ID,如下圖所示:

POST /api/fmc_config/v1/domain/{domainUUID}/policy/accesspolicies/{containerUUID}/accessrules
Retrieves, deletes, creates, or modifies the access control rule associated with the specified policy ID and rule ID. If no ID is specified, retrieves list of all access rules associated with the specified policy ID. Check the response section for applicable examples (if any).

此policyID在指定為containerUUID的欄位中輸入,POST方法的另一個必需欄位是負載或請求正文。您可以使用提供的範例來根據您的需求進行修改。

005056B3-1B6A-0ed3-0000-004294967299 domainUUID • inquind string (perfs) Domain UUID • e276abec-e0f2-11e3-8169-6d9ed49b625f Request body required application/json • The input access control rule model. Examples: Example 1: POST /fmc_config/v1/domain/DomainUUID/policy/accesspolicies/container/UUID/accessrules (Test POST of Access rule) •	<pre>containerUUID * required string (path)</pre>	The container id under which this specific resource is contained.	
domainUUID required tring (peth) Domain UUID e276abec-e0f2-11e3-8169-6d9ed49b625f application/json Request body required application/json The Input access control rule model. Examples: Example 1: POST /fmc_config/v1/domain/Domain/UUID/policy/accesspolicles/container/UUID/accessrules (Test POST of Access rule)		005056B3-1B6A-0ed3-0000-004294967299	
e276abec-e0f2-11e3-8169-6d9ed49b625f Request body required application/json The Input access control rule model. Examples: Example 1: POST //mc_conflg/v1/domain/Domain/UUID/policy/accesspolicies/container/UUID/accessrules (Test POST of Access rule) (***********************************	<pre>domainUUID * required string (path)</pre>	Domain UUID	
Request body required application/json The input access control rule model. Examples: Example 1: POST //mc_config/v1/domain/Dunlo/Domain/UUID/accessrules (Test POST of Access rule) <pre></pre>		e276abec-e0f2-11e3-8169-6d9ed49b625f	
The input access control rule model. Examples: Example 1: POST /fmc_config/v1/domain/DomainUUID/policy/accesspolicies/containerUUID/accessrules (Test POST of Access rule) { "section": "ALLOW", "enabled": true, "type": "Mariablest; "accessfula; "false, "looffiel; false, "looffiel; false, "looffiel; false, "looffiel; false, "looffiel; false, "section": "AlLOWST of Accessfula; "section": "AlLOW", "section": "AlLOW", "section": "Allowst, "section": Test POST of Access rule)	Request body required	application/json	~
Example 1: POST /fmc_config/v1/domain/DomainUUID/policy/accesspolicies/containerUUID/accessrules (Test POST of Access rule)	The input access control rule	ile model.	
Example 1: POST /fmc_config/v1/domain/Domain/UUID/policy/accesspolicies/container/UUID/accessrules (Test POST of Access rule) f "action": "ALLOW", "enabled": rure, "settion": "Alcossfula", "assettion: "Alcossfula", "assettion: "Alcossfula", "assettion: "Alcossfula", "assettion: "faise, "assettion: faise, "assettion: "faise, <l< td=""><td>Examples:</td><td></td><td></td></l<>	Examples:		
<pre>{ "action": "ALLON", "enabled" true, "type": "Accessfule", "name": "Rule1", "acefiles": false, "logEiles": false, "logEiles": false, "logEidest: false, "wariableSest: { "aname": "Default Set", "ide1: "WariableSetUND", "type: "Wariab</pre>	Example 1 : POST /fmc_	_config/v1/domain/DomainUUID/policy/accesspolicies/containerUUID/accessrules (Test POST of Access rule)	
	<pre>{ "action": "ALLOW", "enabled": true, "type": "AccessRule", "name": "Rule1", "acgEsgin: false, "logEsgin: false, "logEsgin: false, "variableSst": { "name": "Default Set" "id": "VariableSstUUJ "type": "VariableSst' , "vlanTags": {</pre>	lse, t ^u , <u>JD</u> ⁰ , t	Î

修改後的負載示例:

{ "action": "ALLOW", "enabled": true, "type": "AccessRule", "name": "Testing API rule", "sendEventsToFMC": false, "logFiles": false, "logBegin": false, "logEnd": false, "sourceZones": { "objects": [{ "name": "Inside_Zone", "id": "&c1c58ec-8d40-11ed-b39b-f2bc2b448f0d", "type": "SecurityZone" }] }, "destinationZones": { "objects": [{ "name": "Outside_Zone", "id": "c5e0a920-8d40-11ed-994a-900c72fc7112", "type": "SecurityZone" }] }, "newComments": ["comment1", "comment2"] }



注意:可用區域及其ID可以使用下一個查詢獲得。



執行上一個呼叫後,您將收到201響應代碼,表明請求已成功建立資源。

Server res	ponse
Code	Details
201	Response body
	<pre>{ "metadata": { "ruleIndex": 6, "section": "Default", "category": "-Undefined", "category": "-Undefined", "sccessPolicy": { "name": "ACP_Cchanes", "id": "@05083-186A-ded3-0000-004294967299", "type": "AccessPolicy" } }, "inks": { "setf": "fttps://10.88.243.36:43162/api/fmc_config/vl/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/policy/accesspolicies/00505683-186A-0ed3-0000-004294967299/accessrules/0050 5683-186A-0ed3-0000-000268435456" *eabled": true, "aname": "festing API rule", "sype": "AccessIde", "ACI", "00505683-186A-0ed3-0000-000268435456", "aname": "Testing API rule", "sype": "AccessIde", "ACI", "Gefault Set", "add": true, "add": true, "add": true, "add": "00505683-186A-0ed3-0000-000268435456", "aname": "Default Set", "add": "Offault Set", "ad</pre>
	"sourceZones": ("objects": [

最後,您必須進行部署,這些變更才會在ACP已修改的FTD中生效。

為此,您必須獲取已準備好部署更改的裝置清單。



該示例包含一對在高可用性中配置的裝置。您必須取得此HA的ID,如果是獨立裝置,您必須取得該裝置的ID。

Responses			
Curl curl -X 'G 'https:/ -H 'acce -H 'X-au	ET' \ /10.88.243.36:43162/api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/deployment/deployabledevices' \ pt: application/json' \ th-access-token: 41f2e4aa-c681-4064-8cdc-6f734785dba9'		Ē
Request URL			
https://10	.88.243.36:43162/api/fmc_config/vl/domain/e275abec-e0f2-lle3-8169-6d9ed49b625f/deployment/deployabledevices		
Code	Details		
200			
[<pre>Response body { "links": { "self": "https://10.88.243.36:43162/api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/deployment/deployabledevices?offset=0&limit=25" }, //. "restin": "1689794173607", "name": "HA_FID72", "type": "DeployableDevice" }, // "paging": { "offset": 0, "limit": 25, "count": 1, "pages": 1 } }</pre>	Đ	Download

獲取HA的裝置ID所需的查詢如下:

SET /api/fmc_config/v1/domain/{domainUUID}/devicehapairs/ftddevicehapairs

Retrieves or modifies the Firewall Threat Defense HA record associated with the specified ID. Creates or breaks or deletes a Firewall Threat Defense HA pair. If no ID is specified for a GET, retrieves list of all Firewall Threat Defense HA pairs.

透過裝置ID和部署版本號,您可以修改下一個呼叫示例的有效負載,以發出呼叫來執行此部署。

POST /api/fmc_config/v1/domain/{domainUUID}/deployment/deploymentrequests

Creates a request for deploying configuration changes to devices. Check the response section for applicable examples (if any).

一旦執行此呼叫,如果一切正確,您會收到代碼為202的響應。

透過FDM API Explorer檢視導覽

若要存取FDM API Explorer,可以使用FDM GUI上的按鈕直接移至該瀏覽器,如下圖所示:



在API Explorer中,您會發現查詢也分為不同的類別。

<complex-block> Freward Device Names Freward Device Names</complex-block>	A No seguro https://10.88.243.36:44	4178/#/api-explorer						a‰ a&	습	💿 Ф	£`≣	ত 🙎	🜔
Threat Defense Secure Firewall Threat Defense REST API API Explorer The following is a list of resources you can use for programmatic access to the divice using the Secure Firewall Threat Defense REST API. The resources are organized into groups of related resources. Click a group name to see the available methods and resources. Click a method/resource within a group to see detailed information. Within a method/resource, click the Model link under Response Class to see documentation for the resource. You can test the various methods and resources through this page. When you fill in parameters and click the Try I Out button, you interact directly with the system. GET calls retrieve real information. POST calls create real objects. PULETE calls retrieve and changes, such as to the management IP address and other system-level changes, do not require deployment, to a deployment group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment, to a deployment group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment, to a supprovent group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment, the approvent group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment group. Although some changes and parts in the Authorization: Bearer header on any HTTP's request from your API client. Due can also refer to this page for a list of API custom error codes. (Additio	Firewall Device Manager	Monitoring	Ø Policies	ä≞ Objects	Device: firepower	()(0 (?	•	admin Administrato	r ~	cisco S	ECURE
API Explorer Error Catalog The following is a list of resources you can use for programmatic access to the device using the Secure Firewall Threat Defense REST API. The resources are objects. Purce and the available methods and resources. Click a method/resource within a group to see detailed information. Within a method/resource, click the Model link under Response Class to see documentation for the resource. Uncertain the secure Firewall Threat Defense REST API. The resources are objects. Defense and the available method is not resources. Click a method/resource within a group to see detailed information. Within a method/resource, click the Model link under Response Class to see documentation for the resource. The secure set objects. However, most changes do not become active unity ou deploy them using the POST /operational/deploy resource in the Deployment group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment, it is safer to do a deployment after you make any configuration changes. The REST API uses OAuth 2.0 to validate access. Use the resources under the Token group to get a password-granted or custom access token, to refresh a token, or to revoke a token. You must include a valid access token in the Authorization: Bearer header on any HTTPS request from your API client. Before using the REST API, up uneed to finish the device initial setup. You can complete the device initial setup either through UI or through InitialProvision API. You can also refer to this page for a list of API custom error codes. (Additional errors might exist.) NOTE: The purpose of the API Explorer is to help you use the API Explorer on a non-production device. Cisco makes no guarantee that the API version included on this Firepower Threat Device (t	Threat Defense ← REST API	Secure Fire	ewall Thre	eat Defei	nse REST API								
Error Catalog You can test the various methods and resources through this page. When you fill in parameters and click the Ty It Out button, you interact directly with the system. GET calls retrieve real information. POST calls create real objects. PUT calls modify existing objects. DELETE calls remove real objects. However, most changes do not become active until you deploy them using the POST /operational/deploy resource in the Deployment group. Although some changes, such as to the management IP address and other system-level changes, do not require deployment, it is safer to do a deployment after you make any configuration changes. The REST API uses OAuth 2.0 to validate access. Use the resources under the Token group to get a password-granted or custom access token, to refresh a token, or to revoke a token. You must include a valid access token in the Authorization: Bearer header on any HTTPS request from your API client. Before using the REST API, you need to finish the device initial setup. You can complete the device initial setup either through UI or through InitialProvision API. You can also refer to this page for a list of API custom error codes. (Additional errors might exist.) NOTE: The purpose of the API Explorer is to help you learn the API. Testing calls through the API Explorer requires the creation of access locks that might interfere with regular operation. We recommend that you use the API Explorer on a non-production device. Cisco makes no guarantee that the API version included on this Firepower Threat Device (the "API") will be compatible with future releases. Clisco, at any time in its sole discretion, may modify, enhance or otherwise improve the API based on user feedback. AAAASetting Show/Hi	API Explorer	The following is a longanized into gro	list of resource ups of related	es you can use resources. Cli	for programmatic access to the ck a group name to see the available of the second se	e device using the S allable methods and	Secure Fir resource	ewall Threa s. Click a m	t Defense ethod/res	e REST API. The source within a	group to	see detaile	d
AAASetting Show/Hide List Operations Expand Operations ASPathList Show/Hide List Operations Expand Operations	Error Catalog	You can test the va GET calls retrieve in not become active management IP ad The REST API uses or to revoke a toke Before using the R You can also refer NOTE: The purpos with regular operal Cisco makes no gi sole discretion, ma	arious methods real informatio until you depl Idress and oth s OAuth 2.0 to n. You must in EST API, you r to this page fo to this page fo to of the API E tion. We recom- uarantee that t ay modify, enha	s and resource ov them using er system-leve validate acce- clude a valid a need to finish the or a list of API xplorer is to he normend that yo he API version ance or otherv	es through this page. When you create real objects. PUT calls n the POST /operational/deploy el changes, do not require dep ss. Use the resources under th access token in the Authorization the device initial setup. You can custom error codes. (Additional alp you learn the API. Testing c u use the API Explorer on a no included on this Firepower Th vise improve the API based on	fill in parameters ar nodify existing object resource in the Dep oyment, it is safer to a Token group to get in: Bearer header on a complete the device I errors might exist.) alls through the API n-production device reat Device (the "AP user feedback.	nd click th tts. DELET oloyment o o do a dep it a passw h any HTT ce initial so) Explorer n s.	e Try it Out Te calls remain roup. Althout on one of the second	I button, ove real of ugh som er you m d or custo from you hrough to creation with fut	you interact dir objects. However e changes, such ake any configu- om access toke ir API client. JI or through Init of access locks ure releases. Ci	ectly wit ar, most h as to ti uration c n, to refr ialProvis s that mis sco, at a	h the syster changes do ne hanges. esh a token ion API. ght interfere ny time in it	n. , ,
ASPathList Show/Hide List Operations Expand Operations		AAASetting						Sho	w/Hide	List Operations	Expa	nd Operation	IS
AccessBoliov		ASPathList						Sho	w/Hide	List Operations	Expa	nd Operation	IS
Show/Hide List Operations Expand Operations		AccessPolicy						Sho	w/Hide	List Operations	Expa	nd Operation	IS

若要展開類別,您必須按一下該類別,然後您可以按一下其中任何一項來展開各項作業。在每項操作中找到的第一件事就是此呼叫的 OK響應示例。

cessPolicy	Show/Hide	List Operations	Expand Operations
/policy/accesspolicies/{parentId}/accessrules			
/policy/accesspolicies/{parentId}/accessrules			
/policy/accesspolicies/{parentId}/accessrules/{objId}			
/policy/accesspolicies/{parentId}/accessrules/{objId}			
/policy/accesspolicies/{parentId}/accessrules/{objId}			
Response Class (Status 200)			
Image: Topolicy/accesspolicies Response Class (Status 200) Model Example Value			
Image: Topolicy/accesspolicies Response Class (Status 200) Model Example Value			
/policy/accesspolicies Response Class (Status 200) Model Example Value { "items": [Î
/policy/accesspolicies Response Class (Status 200) Model Example Value { 'items": [{			Ô
<pre>/policy/accesspolicies Response Class (Status 200) Model Example Value { "items": [{ "version": "string",</pre>			Û
<pre>/policy/accesspolicies Response Class (Status 200) Model Example Value { "items": [{ "version": "string", "name": "string", "name": "string",</pre>			Û
<pre>/policy/accesspolicies Response Class (Status 200) Model Example Value { "items": [{ "version": "string", "name": "string", "defaultAction": { } } </pre>			Û
<pre>Response Class (Status 200) Model Example Value { "items": [{ "version": "string", "name": "string", "defaultAction": { "action": "PERMIT", "action": "PERMIT", "</pre>			Û
<pre>Response Class (Status 200) Model Example Value { "items": [{ "version": "string", "name": "string", "defaultAction": { "action": "PERMIT", "eventLogAction": "LOG_FLOW_START", "itemsreplaise": { "itemsreplaise": { "itemsreplaise": { "action": "LOG_FLOW_START", "itemsreplaise": { "itemsreplaise": { "itemsreplaise": { "itemsreplaise": { "action = not not not not not not not not not not</pre>			Û
<pre>Response Class (Status 200) Model Example Value { "items": [{ "version": "string", "name": "string", "defaultAction": { "action": "PERMIT", "eventLogAction": "LOG_FLOW_START", "intrusionPolicy": { "itemis" tertion" "itemis" tertion" "itemis" tertion" "itemis" tertion" "itemis" tertion" "itemis" tertion" "itemis" "itemis": ["itemis": ["itemis": "string", "action": "PERMIT", "intrusionPolicy": { "itemis": "string", "itemis": "string", "itemis": "string", "action": "PERMIT", "itemis": "string", "itemis": "string", "itemis": "string", "action": "PERMIT", "itemis": "string", "itemis": "string", "itemis": "string", "action": "PERMIT", "eventLogAction": "LOG_FLOW_START", "itemis": "string", "itemis": "string", "itemis": "string", "itemis": "string", "itemis": "string", "action": "PERMIT", "action": "LOG_FLOW_START", "itemis": "string", "itemis": "string",</pre>			Û

您接下來看到的就是可用於限制呼叫響應的引數。請記住,只有標籤為必填的欄位才能進行此類呼叫。

Response Content Type application/json

Parameters				
Parameter	Value	Description	Parameter Type	Data Type
offset		An integer representing the index of the first requested object. Index starts from 0. If not specified, the returned objects will start from index 0	query	integer
limit		An integer representing the maximum amount of objects to return. If not specified, the maximum amount is 10	query	integer
sort		The field used to sort the requested object list	query	string
filter		The criteria used to filter the models you are requesting. It should have the following format: {key}{operator}{value}]; {key}{operator}{value}]. Supported operators are: "!" (not equals), ":" (equals), " ~" (similar). Supported keys are: " name", "fts". The "fts" filter cannot be used with other filters.	query	string

最後,您會找到此呼叫可返回的可能響應代碼。

Response Messages		
HTTP Status Code Reason	Response Model	Headers
401	<pre>Model Example Value { "status_code": 0, "message": "string", "internal_error_code": 0 }</pre>	
403	<pre>Model Example Value { "status_code": 0, "message": "string", "internal_error_code": 0 }</pre>	

如果要進行此呼叫,必須按一下Try It Out。要找到此按鈕,您必須向下滾動直至找到此按鈕,因為它位於每個呼叫的底部。

	}
520	<pre>Model Example Value { "status_code": 0, "message": "string", "internal_error_code": 0 }</pre>

按一下「Try It Out(試用)」按鈕後,如果呼叫不需要更多欄位,則呼叫會立即執行並做出響應。

TRY IT OUT! Hide Response
Curl
<pre>curl -X GETheader 'Accept: application/json' 'https://10.88.243.36:44178/api/fdm/v6/policy/accesspolicies'</pre>
Request URL
https://10.88.243.36:44178/api/fdm/v6/policy/accesspolicies
Response Body
<pre>{ "items": [{ "version": "ka4esjod4iebr", "name": "NGFW-Access-Policy", "defaultAction": { "action": "DENY", "eventLogAction": "LOG_NONE", "intrusionPolicy": null, "syslogServer": null, "hitCount": { "hitCount": 0, "firstHitTimeStamp": "", "lastFetchTimeStamp": "", "lastFetchTimeStamp":</pre>

下一個是當作業階段過期時發生的常見錯誤,指出權杖因為過期而無效。

Responses

Curl curl -X ' 'https: -H 'acc -H 'X-ac	GET' \ //10.88.243.36:43162/api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/policy/accesspolicies' \ ept: application/json' \ uth-access-token: d1594a50-3f98-4519-875b-50c70b454552'
Request UR	n.
https://1	10.88.243.36:43162/api/fmc_config/v1/domain/e276abec-e0f2-11e3-8169-6d9ed49b625f/policy/accesspolicies
Server resp	onse
Code	Details
401	Error: 401 Response body
	<pre>{ "error": { "category": "FRAMEWORK", "messages": [/ "description": "Access token invalid."], "severity": "ERROR" } Download </pre>

下面是呼叫可以返回的HTTP響應代碼的示例:

- 2xx系列:成功。狀態碼有好幾種:200 (GET和PUT)、201 (POST)、202、204 (DELETE)。它們表示API呼叫成功。
- 30x系列:重新導向。可用於客戶端最初使用HTTP並被重定向到HTTPS時。

• 4xx系列:從客戶端傳送到伺服器的API呼叫中的客戶端故障。兩個示例包括表示會話未經身份驗證的401狀態代碼和表示 禁止訪問嘗試的403代碼。

• 5xx系列:伺服器、裝置或服務端故障。這可能是由於裝置API服務被停用或無法通過IP網路訪問而導致的結果

關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。