



## Adding the KVM Connector

---

This chapter contains the following sections:

- [Creating a RHEV KVM Cloud, page 1](#)
- [Initiating Inventory Collection for a VM, page 3](#)
- [Computing Policies, page 3](#)
- [Creating a RHEV KVM Storage Policy, page 5](#)
- [Creating a RHEV KVM Networking Policy, page 6](#)
- [Virtual Data Centers, page 7](#)
- [About Managing Catalogs, page 10](#)
- [Publishing a Catalog, page 11](#)
- [Service Requests, page 18](#)

## Creating a RHEV KVM Cloud

### Before You Begin

Installation of Red Hat Enterprise Virtual Machine (VM) and Hypervisor.

### Procedure

---

- Step 1** Choose **Administration > Virtual Accounts**.
- Step 2** On the **Virtual Accounts** page, click **Virtual Accounts**.
- Step 3** Click **Add (+)**.
- Step 4** On the **Add Cloud** screen, choose **Red Hat KVM** from the **Cloud Type** drop-down list.  
**Note** The following fields are displayed when RHEV KVM is chosen. Other cloud types display fields that are specific to that cloud type.
- Step 5** On the **Add Account** screen, complete the following fields:

Name	Description
<b>Pod</b> drop-down list	Choose a <b>Pod</b> to associate the account to from the drop-down list.
<b>Account Name</b> field	A unique account name.
<b>Description</b> field	A description of the new account.
<b>Server Address</b> field	The RHEV KVM server address.
<b>Use Credentials Policy</b> check box	Check this box if you want to use a credential policy for this account rather than enter the username and password information manually.
<b>Credential Policy</b> drop-down list	This field appears only when the <b>Use Credential Policy</b> box is checked. Choose a policy from the <b>Credential Policy</b> drop-down list.
<b>Server User ID</b> field	This field appears only when the <b>Use Credential Policy</b> box is unchecked. The RHEV KVM server username.  <b>Note</b> You must enter only the username in this field. Do not include the domain name with the user name. Enter the domain name in the <b>Domain</b> field.
<b>Server Password</b> field	This field appears only when the <b>Use Credential Policy</b> box is unchecked. The RHEV KVM server password.
<b>Domain</b> field	The domain associated to the new account.
<b>Server Access Port</b> field	The server access port used by the account (default value is 443).
<b>Service Provider</b> field	The service provider associated with the account
<b>Contact</b> field	The contact email address for the cloud.
<b>Location</b> field	The location of the account.

**Step 6** Click **Submit**.

---

## Initiating Inventory Collection for a VM

### Procedure

- 
- Step 1** Choose **Virtual > Compute**.
  - Step 2** On the **Compute** page, choose the cloud.
  - Step 3** On the **Compute** page, click **VMs**.
  - Step 4** Click the row with the VM for which you want to request an inventory collection.
  - Step 5** From the **More Actions** drop-down list, choose **Inventory Collection Request for VM**.
  - Step 6** Click **Submit**.
- 

## Computing Policies

Computing policies determine the compute resources that can be used during provisioning to satisfy group or workload requirements.

As an administrator, you can define advanced policies by mixing and matching various conditions in the computing policy.



### Note

We recommend that you thoroughly understand all the fields in the computing policy. Some combinations of conditions can result in no host machines being available during self-service provisioning.

## Creating a RHEV KVM Computing Policy

### Procedure

- 
- Step 1** Choose **Policies > Virtual/Hypervisor Policies > Computing**.
  - Step 2** On the **Computing** page, click **RHEV KVM Computing Policy**.
  - Step 3** Click **RHEV KVM Computing Policy**.
  - Step 4** Click **Add (+)**.
  - Step 5** On the **Add Policy** screen, complete the following fields:

Name	Description
Policy Name field	The name of the policy. <b>Note</b> This name is used during catalog definition
Policy Description field	The description of the policy.

Name	Description
<b>Cloud Name</b> drop-down list	Choose the cloud where resource allocation occurs.
<b>Datacenter</b> drop-down list	Choose a datacenter (Pod).
<b>Cluster Scope</b> drop-down list	<p>Choose a type of cluster scope.</p> <p><b>Note</b> You can narrow the scope of deployment by specifying whether to use all, include selected cluster, or exclude selected clusters. Depending on the choices, a Selected Clusters field appears where the required clusters can be chosen.</p>
<b>Filter Conditions</b> field	Check the check boxes for one or more conditions and set the condition that should match. Any hosts that do not meet these criteria are excluded from consideration. If more than one condition is chosen, all of the chosen conditions must match.
<i>Deployment Options</i>	
<b>Override Template</b> check box	Check the check box to override the template properties. On selection, you will get additional fields to enter custom settings for CPU and memory.
<i>Resizing Options</i>	
<b>Allow Resizing of VM</b> check box	Check the check box to allow VM resizing before provisioning or to resize an existing VM.
<b>Permitted Values of No. of CPU Sockets</b> field	<p>The range of CPUs to use while provisioning a VM or resizing an existing VM. A range of more than 8 is visible during VM provisioning or resizing only if the chosen cloud is 5 or above and has VM version 8. Only the values specified in the box are visible.</p> <p><b>Note</b> This option appears if you choose <b>Allow Resizing of VM</b>.</p>
<b>Permitted Values of No. of Cores per Sockets</b> field	<p>The range of cores permitted per socket.</p> <p><b>Note</b> This option appears if you choose <b>Allow Resizing of VM</b>.</p>
<b>Permitted Values for Memory in MB</b> field	<p>The range of memory to use while provisioning a VM or resizing an existing VM. For example: 512, 768, 1024, 1536, 2048, 3072, 4096, and so on. Only the values specified in the box are visible.</p> <p><b>Note</b> This option appears if you choose <b>Allow Resizing of VM</b>.</p>

**Step 6** Click **Add**.

---

## Creating a RHEV KVM Storage Policy

### Procedure

---

**Step 1** Choose **Policies > Virtual/Hypervisor Policies > Storage**.

**Step 2** On the **Storage** page, click **RHEV KVM Storage Policy**.

**Step 3** Click **Add (+)**.

**Step 4** On the **Add Policy** screen, complete the following fields:

Name	Description
<b>Policy Name</b> field	The name of the storage policy
<b>Policy Description</b> field	The description of the storage policy.
<b>Cloud Name</b> drop-down list	Choose the cloud in which resource allocation occurs.
<b>Datacenter</b> drop-down list	Choose a data center.
<b>Scope</b>	
<b>Data Stores Scope</b> drop-down list	Choose <b>All</b> , <b>Include Selected Datastores</b> , or <b>Exclude Selected Datastores</b> as the scope of deployment.
<b>Selected Data Stores</b> field	This field appears when you chose <b>Include Selected Datastores</b> or <b>Exclude Selected Datastores</b> from the <b>Data Stores Scope</b> drop-down list. Expand <b>Selected Data Stores</b> and select the appropriate datastores.
<b>Storage Options</b>	
<b>Filter Conditions</b> drop-down list	Check the check boxes for one or more conditions and set the condition that should match the data store storage.

**Step 5** Click **Submit**.

---

# Creating a RHEV KVM Networking Policy

## Procedure

- Step 1** Choose **Policies > Virtual/Hypervisor Policies > Network**.
- Step 2** On the **Network** page, click **RHEV KVM Networking Policy**.
- Step 3** Click **Add (+)**.
- Step 4** On the **Add Policy** screen, complete the following fields:

Name	Description
<b>Policy Name</b> field	The name of the network policy.
<b>Policy Description</b> field	The description of the network policy.
<b>Cloud Name</b> drop-down list	Choose the cloud account to which the policy applies.
<b>Datacenter</b> drop-down list	Choose a data center.
<b>Network Name</b> field	Expand <b>Network Name</b> , check the network that you want to use, and then click <b>Validate</b> .
<b>Link State</b> drop-down list	Choose <b>On</b> or <b>OFF</b> as the NIC link state.
<b>Adapter Type</b> drop-down list	Choose the adapter type. Check this option if you want to have the same Adapter Type that is available in the template.  <b>Note</b> This option is not visible if the <b>Copy Adapter from Template</b> option is chosen.

- Step 5** Click **Next**.
- Step 6** Expand **Additional Networks** and click **Add (+)**.
- Step 7** On the **Add Entry to Additional Networks** screen, complete the following fields:

Name	Description
<b>NIC Alias</b> field	The name of the network policy.
<b>Network Name</b> field	Expand <b>Network Name</b> , check the network that you want to use, and then click <b>Validate</b> .
<b>Link State</b> drop-down list	Choose <b>On</b> or <b>OFF</b> as the NIC link state.

Name	Description
Adapter Type drop-down list	<p>Choose the adapter type. Check this option if you want to have the same Adapter Type that is available in the template.</p> <p><b>Note</b> This option is not visible if the <b>Copy Adapter from Template</b> option is chosen.</p>

**Step 8** Click **Submit** to add the network.

**Step 9** Click **Submit** to add the policy.

## Virtual Data Centers

A Virtual Data Center (VDC) is a logical grouping that combines virtual resources, operational details, rules, and policies to manage specific group requirements.

A group or organization can manage multiple VDCs, images, templates, and policies. Organizations can allocate quotas and assign resource limits for individual groups at the VDC level.

You can also define approvers specific to a VDC. The approvers assigned to a particular VDC must approve all service requests from users for VM provisioning.



### Note

There is a default VDC in Cisco UCS Director, and all discovered VMs are part of this default VDC. Discovered VMs are VMs that are created outside of Cisco UCS Director or were already created on VMware vCenter before Cisco UCS Director was installed. Cisco UCS Director automatically discovers such VMs and adds them to the default VDC.

A VM that is provisioned using a service request can be associated with a specific VDC. When you create a service request, you can choose the VDC on which this VM is provisioned. You can view a list of the VDCs that are available for a particular group and choose the required VDC when provisioning VMs.

## Creating a RHEV KVM Virtual Pod

In this task, you specify deployment, storage, network, and computing policies. Refer to the Cisco UCS Director System Administration Guide for additional information.

## Procedure

- Step 1** Choose **Policies > Virtual/Hypervisor Policies > Virtual Data Centers**.
- Step 2** On the **Virtual Data Centers** page, click **vDC**.
- Step 3** Click **Add**.
- Step 4** On the **Add vDC** screen, choose **Red Hat KVM** from the **Account Type** drop-down list.
- Step 5** Click **Submit**.
- Step 6** On the **Add vDC** screen, complete the following fields:

Name	Description
vDC Name field	The name of the VDC. After entering the name, it cannot be edited.
vDC Locked check box	Check the check box to deny the use of the VDC for any further deployments. Actions on existing VMs, within this VDC, are disabled. Uncheck the check box to allow the use of the VDC for further deployments.
vDC Description field	The VDC-specific description.
Group field	Expand <b>Group</b> and check the group for which the VDC is being set up. Click the + icon to add a group.
Cloud Name drop-down list	Choose the cloud on which the VDC is being set up.
<i>Approvers and Contacts</i>	
First Level Approver(s) field	Expand <b>First Level Approvers</b> and check each user who must approve the service request at first level.
Second Level Approver(s) field	Expand <b>Second Level Approver(s)</b> and check each user who must approve the service request at second level.
Approval required from all the users check box	If checked, requires approval from all users.
Number of Approval Request Reminders drop-down list	Choose the number of reminders that has to be sent at the specified interval. Set the reminder to zero to send the reminder email at the specified interval till the request is approved or rejected.
Reminder Intervals (Hours) drop-down list	The time interval to send the next request approval reminder email.
Provider Support Email Address field	The contact or user's email address. The person who is notified about VM provisioning using this VDC.



Name	Description
Copy Notifications to Email Address field	The second contact's email for copying notifications about this VDC.
<i>Policies</i>	
Computing Policy drop-down list	Choose the computing policy applicable to the VDC.
Network Policy drop-down list	Choose the network policy applicable to the VDC.
Storage Policy drop-down list	Choose the storage policy applicable to the VDC.
System Policy drop-down list	Choose the system policy applicable to the VDC.
VM Management Policy drop-down list	Choose the VM management policy applicable to the VDC.
End User Self-Service Policies drop-down list	Choose an end user policy.

## Creating a KVM Deployment Policy

### Procedure

- Step 1** Choose **Policies > Virtual/Hypervisor Policies > Service Delivery**.
- Step 2** On the **Service Delivery** page, click **RHEV KVM Deployment Policy**.
- Step 3** Click **Add**.
- Step 4** On the **Add Policy** screen, complete the following fields:

Name	Description
Policy Name field	The name for the KVM deployment policy.
Policy Description field	The description of the KVM deployment policy
VM Name Template field	The VM name template to use. Cisco UCS Director allows automatically created using a set of variable names. Each variable must be enclosed in <code>\${VARIABLE_NAME}</code> . For example: <code>vm-\${GROUP_NAME}-SR\${SR_ID}</code> .
Cloud Name drop-down list	Choose a cloud from the drop-down list.

Name	Description
Recycle VM Name check box	By default, decommissioned VM names that were previously provisioned are used when creating a new VM. Uncheck this check box if you do not want to recycle previously used VM names.

**Step 5** Click **Submit**.

---

## About Managing Catalogs

You can self-provision virtual machines (VMs) and bare metal (BM) servers using predefined catalog items. Only a system administrator can create a catalog. A catalog defines parameters, such as the cloud name and the group name to which the VM is bound.

The following folders are available by default. You cannot edit or delete them.

- Standard
- Advanced
- Service Container
- Bare Metal

To aid in managing catalogs, Cisco UCS Director allows you to group similar catalogs within a folder. While creating a catalog, you can choose to add it in a previously created folder, or create a new folder. A folder is visible in the system only when it contains a catalog.

The **Manage Folder** option on the **Catalog** page allows you to perform the following tasks:

- Edit a folder—Modify the name of a user-created folder or the folder icon for all folders. You cannot modify the name of a default folder.
- Delete a folder—Delete a folder from Cisco UCS Director. If this folder contains catalogs, then these catalogs are automatically moved into the folders that are available by default, based on the catalog type. Default folders cannot be deleted.
- Re-order the list of folder—Change the order in which the folders are listed in the **Catalog** page. By default, folders are listed alphabetically.



### Important

If you have upgraded Cisco UCS Director to the latest version, then all catalogs created in prior versions are grouped into folders available by default, based on their catalog types.

By default, catalogs are displayed in a tile view format. You can choose to have the catalogs displayed in a table view format as well. Use the options on the far right of the screen to switch between the table view and the tile view format. In the table view format, you can use the options to expand or collapse all folders.

---

# Publishing a Catalog

## Procedure

**Step 1** Choose **Policies > Catalogs**.

**Step 2** On the **Catalogs** page, click **Add**.

**Step 3** On the **Add Catalog** screen, choose the **Catalog Type** that you want to add. It can be one of the following:

- **Standard**—Used to create catalogs for VM provisioning, using images from a list of clouds.
- **Advanced**—Used to publish orchestration workflows, such as catalog items.
- **Service Container**—Used to publish application containers as catalog items.
- **Bare Metal**—Used to create catalogs for bare metal server provisioning.

**Step 4** Click **Submit**.

**Step 5** On the **Add Catalog: Basic Information** screen, complete the required fields, including the following:

Name	Description
Catalog Name field	Enter a name for the catalog. <b>Note</b> After created, a catalog name cannot be modified.
Catalog Description field	Enter a description of the catalog.
Catalog Type drop-down list	Displays the type of catalog you previously chose. To change the catalog type, you need to cancel and restart this procedure.
Catalog Icon drop-down list	Choose from a list of icons to associate this catalog with an image. This icon is seen when you are creating a service request using this catalog.
Applied to all groups check box	Check the box to enable all groups to use this catalog. Leave it unchecked to deny its use to other groups.
Support Contact Email Address field	Enter the email address of the support contact who is notified when a service request is created using this catalog item.
Selected Groups list	Click <b>Select</b> to check the checkboxes of specific user groups. The checked groups use this catalog to provision new VMs. After checking the checkboxes of user groups, click <b>Select</b> to return to the <b>Add Catalog</b> screen.

Name	Description
<b>Publish to end users</b> check box	By default, this box is checked. Uncheck this box if you do not want this catalog to be visible to users. If you do not uncheck this box, then this catalog is visible to the users of the system.
<b>Cloud Name</b> drop-down list	Choose the cloud with the image for VM provisioning.
<b>Provision new VM for ISO mounting</b> check box	Check this box to clone a new VM from a selected image. If you do not check this check box, a blank VM is created.
<b>Image</b> list	<p>Click <b>Select</b> to check the checkboxes of the type of image (any existing templates such as Windows, Linux, and other files that make up the image) to use when VMs are provisioned using this catalog. After checking the checkboxes of the required images, click <b>Select</b> to return to the <b>Add Catalog</b> screen.</p> <p>If you are a group administrator, or a user in a group with permissions to create catalogs, this field displays images that are assigned to the group to which you belong.</p> <p>If you are an MSP administrator, then this field displays images that are assigned to your MSP organization, and to the groups within the MSP organization.</p>
<b>Provision new VM using Content Library VM Template</b> check box	Check this box to ensure that the new VM is provisioned using the Content Library VM Template. If you choose this option, the <b>Image</b> list is hidden.
<b>Content Library VM Template</b> list	Choose the content library VM template.
<b>Windows License Pool</b> field	<p>Enter the Windows License.</p> <p><b>Note</b> This field appears only when a Windows image is chosen. This option is not supported in the RHEV KVM Connector.</p>

Name	Description
Use <b>ReadyClone</b> check box	<p>Check the box to ensure that VMs are deployed using ReadyClones.</p> <p>When this box is checked, the <b>Use Linked Clone</b> and <b>Provision all disks in single datastore</b> check boxes are not available for editing.</p> <p><b>Note</b> This checkbox is not visible if:</p> <ol style="list-style-type: none"> <li>1. The selected image is not on the HX datastore.</li> <li>2. The VM has multiple disks.</li> </ol>
Use <b>Linked Clone</b> check box	<p>Check the box if you want to use a linked clone.</p> <p>Linked Clone or Full Clone depends on the Linked Clone selection in the Storage Policy.</p> <p><b>Note</b> This field appears only when a Snapshot image is chosen.</p>
Provision all disks in single datastore check box	<p>Check the box to provision all disks in a single datastore. You can also choose to use the datastores configured for each disk in the storage policy.</p> <p><b>Note</b> This field appears only if the chosen template has multiple disks. This option is not supported in the RHEV KVM Connector.</p>
Service Container Template Name drop-down list	<p>Choose the template from the list.</p> <p><b>Note</b> This field appears only when the chosen Catalog Type is <b>Service Container</b>.</p>
Select Folder drop-down list	<p>Choose the folder within which this catalog must be created.</p> <p><b>Note</b> The drop-down list includes names of folders that are available by default. You can either choose a folder that is available, or click <b>Create New Folder</b>.</p> <p>On the <b>Add New Folder</b> screen, enter a <b>Folder Name</b>, choose a <b>Folder Icon</b>, and click <b>Add</b>.</p>
Bare Metal Server Provisioning Policy drop-down list	<p><b>Note</b> This field appears only when the chosen Catalog Type is <b>Bare Metal</b>.</p>
Configure Service Request Support Email check box	<p>Check this box to enable the user to set the support email for sending service request status.</p>

**Step 6** Click Next.

**Step 7** On the **Add Catalog: Application Details** screen, complete the required fields, including the following:

Name	Description
Category list	Expand the list to choose a VDC category and click <b>Select</b> .
Override check box	Check the box to enable the user to override the selected category while provisioning a VM using a service request.
Support Contact Email Address field	Enter the email address of the contact who is notified when a service request is created using this catalog item.
Specify OS drop-down list	Choose the type of OS installed on the VM when it is provisioned. <b>Note</b> This option is not supported in the RHEV KVM Connector.
Specify Other OS field	Enter an OS that is not available in the <b>Specify OS</b> drop-down list. <b>Note</b> This option is not supported in the RHEV KVM Connector.
Specify Applications check boxes	Check the appropriate boxes to specify applications that are installed on the VM during provisioning. <b>Note</b> This option is not supported in the RHEV KVM Connector.
Specify Other Applications field	Enter other applications that are not available from the <b>Specify Applications</b> check boxes. <b>Note</b> This option is not supported in the RHEV KVM Connector.
Application Code field	Enter an application code that is used in the VM name.  The application code can be between 1 to 4 characters (for example: W2K3, DB, WS). The application code can be used in a system policy for the VM name by using the variable <code>\${APPCODE}</code> .  For example, if the VM Name Template is <code>vm-\${GROUP_NAME}-\${APPCODE}</code> , the VM provisioned with the system policy has the name <code>vm-groupname-W2K3</code> .  <b>Note</b> This option is not supported in the RHEV KVM Connector.

**Step 8** Click **Next**.

**Step 9** On the **Add Catalog: User credentials** screen, complete the required fields, including the following:

**Note** These options are not supported in the RHEV KVM Connector.

Name	Description
<b>Credential Options</b> drop-down list	Choose to allow or disallow users to retrieve VM access credentials (shared). The following options are available: <ul style="list-style-type: none"> <li>• <b>Do not share</b></li> <li>• <b>Share after password reset</b></li> <li>• <b>Share template credentials</b></li> </ul> The <b>Do not share</b> option is chosen if the administrator wants to send the credentials privately to another user outside Cisco UCS Director.
<b>User ID</b> field	Enter the user ID. <b>Note</b> This field is available only if a choice is made to share under <b>Credential Options</b> .
<b>Password</b> field	Enter the password. <b>Note</b> This field is available only if a choice is made to share under <b>Credential Options</b> .

**Step 10** Click Next.

**Step 11** On the **Add Catalog: Customization** screen, complete the required fields, including the following:

Name	Description
<b>Automatic Guest Customization Enable</b> check box	Check the box to enable automatic guest customization.  If you do not check this check box, then Cisco UCS Director does not configure the DNS, Network, and Guest OS properties.
<b>Pre Provisioning Custom Actions Enable</b>	Check the <b>Enable</b> check box to enable execution of an orchestration workflow before VM provisioning.
<b>Workflow</b> field	Click <b>Select</b> to check the compound workflow that should be used in the orchestration workflow before VM provisioning.  Check the check boxes of the required workflows, and click <b>Select</b> to return to the <b>Add Catalog</b> screen.  <b>Note</b> This field appears when <b>Pre Provisioning Custom Actions Enable</b> is checked.
<b>Post Provisioning Custom Actions Enable</b> check box	Check the box to enable execution of an orchestration workflow after VM provisioning.

Name	Description
<b>Workflow</b> drop-down list	<p>Click <b>Select</b> to check the check boxes of the workflows that need to be used in the orchestration workflow after VM provisioning.</p> <p>Check the check boxes of the required workflows, and click <b>Select</b> to return to the <b>Add Catalog</b> screen.</p> <p><b>Note</b> This field appears when <b>Post Provisioning Custom Actions Enable</b> is checked.</p>
<b>Virtual Storage Catalog Enable</b> check box	Check the box to choose storage entries from the Virtual Storage catalog.
<b>Virtual Storage Catalog</b> drop-down list	<p>Chose a storage entry from the catalog.</p> <p><b>Note</b> This field appears when <b>Virtual Storage Catalog Enable</b> is checked.</p>
<b>Cost Computation</b>	
<b>Charge Duration</b> drop-down list	Choose <b>Hourly</b> or <b>Monthly</b> .
<b>Active VM Application Cost USD</b> field	<p>Enter the cost for the application that is included in the template.</p> <p><b>Note</b> This option is not supported in the RHEV KVM Connector.</p>
<b>Inactive VM Application Cost USD</b> field	<p>Enter the cost to this catalog of a VM in inactive state, per hour or month.</p> <p><b>Note</b> This option is not supported in the RHEV KVM Connector.</p>
<b>VM Life Cycle Configuration</b>	
<b>Lease Time</b> check box	Check the box to define a lease time (in days and hours).
<b>Days</b> field	<p>Enter the number of days.</p> <p><b>Note</b> This field appears when <b>Lease Time</b> is checked.</p>
<b>Hours</b> field	<p>Enter the number of hours.</p> <p><b>Note</b> This field appears when <b>Lease Time</b> is checked.</p>
<b>Hide end user lease configuration</b> check box	Check the box to prevent service users from configuring a lease time for VMs.
<b>Hide end user VM provision later</b> check box	Check the box to prevent service users from provisioning VMs at a later time.



**Step 12** Click Next.

**Step 13** On the **Add Catalog: VM Access** screen, complete the required fields, including the following:

Name	Description
<b>Web Access Configuration Enable</b> check box	Check the box to enable web access to the VM. By default, this check box is unchecked which means that web access to the VM is disabled.
URL field	Enter the URL of the VM. <b>Note</b> This field appears when <b>Web Access Configuration Enable</b> is checked.
Label field	Enter the label that is defined for this URL. <b>Note</b> This field appears when <b>Web Access Configuration Enable</b> is checked.
<b>Remote Desktop Access Configuration Enable</b> check box	Check the box to enable remote desktop access to the VM. By default, this check box is unchecked, which means that remote desktop access to the VM is disabled.
Server field	Enter the IP address of the server for remote access. <b>Note</b> This field appears when <b>Remote Desktop Access Configuration Enable</b> is checked.
Port field	Enter the port number on the server for remote access. <b>Note</b> This field appears when <b>Remote Desktop Access Configuration Enable</b> is checked.
Label field	Enter the label that is defined for this remote access. <b>Note</b> This field appears when <b>Remote Desktop Access Configuration Enable</b> is checked.
<b>VMRC Console Configuration Enable</b> check box	Check the box to enable VMRC console access to the VM. By default, this check box is unchecked, which means that the VMRC console access to the VM is disabled.

**Step 14** Click Next.

**Step 15** Review the catalog information on the **Add Catalog: Summary** screen.

**Step 16** Click Submit.

## Service Requests

You can use the self-service provisioning feature to create a service request to provision virtual machines (VMs), services, or applications. The service request process produces a provisioning workflow for VM creation that includes the following actions:

- Budget validation
- Dynamic resource allocation
- Approvals
- Provisioning
- Lifecycle setup and notification



### Note

If you change the number of CPU Cores or memory allocation while in the **Deployment Configuration** screen, the total cost is automatically updated and displayed.

To provision a VM or execute an orchestration workflow, you must first create a service request. If desired, you can require approval from one or two administrators or designated users before the VM is provisioned or the workflow executed. VMs can be immediately approved or scheduled to be approved within a maximum of 90 days from the original request.

## Creating a Service Request for a Standard Catalog

The administrator publishes catalogs to a group and an end user can choose the required catalog to create a service request. The administrator provides the Self-Service portal with orchestration workflows in the form of catalogs. A catalog, published by the administrator, can be a standard catalog, advanced, or service container.



### Important

You can complete this procedure only if the administrator has enabled the **Create Service Request** permission for your role. This **Create Service Request** permission enables or disables the **Create Request** option in the **Service Requests** tab. It does not have any impact on the **Create Request** option from the **Catalog** menu option.

### Procedure

- Step 1** Choose **Organizations > Service Requests**.
- Step 2** On the **Service Requests** page, click **Service Requests**.
- Step 3** Click **Create Request**.
- Step 4** On the Create Request screen, choose **Standard** as the catalog type.
- Step 5** Click **Submit**.
- Step 6** On the **Create Service Request** screen, complete the following fields:

Name	Description
<b>Catalog Selection</b>	
<b>VM Ownership</b>	Choose one of the following radio button: <ul style="list-style-type: none"> <li>• <b>Group</b>—Select this radio button to choose the group for which a VM is provisioned. On selecting this radio button, expand <b>Select Group</b>, check the group for which the VM has to be provisioned, and then click <b>Validate</b>.</li> <li>• <b>User</b>—Select this radio button to choose the users to whom you want a VM is provisioned. On selecting this radio button, expand <b>User</b>, check the user for whom the VM has to be provisioned, and then click <b>Validate</b>.</li> </ul>
<b>Catalog Type</b> drop-down list	Displays the catalog type.
<b>Select Catalog</b> drop-down list	Choose the catalog created for the KVM cloud. The chosen catalog is used for VM provisioning

**Step 7** Click **Next**.

**Step 8** On the **Deployment Configuration** screen, complete the following fields:

Name	Description
<b>Select VDC</b> drop-down list	The VDC on which the VM is provisioned. VDCs are defined by the administrator.
<b>Comment</b> field	Any comments relating to the deployment configuration.
<b>Provision</b> drop-down list	Choose either <b>Now</b> or <b>Later</b> . When you choose <b>Now</b> , the VM is provisioned immediately or up to 90 days in the future. When you choose <b>Later</b> , a calendar for choosing the date and a drop-down list for choosing the time appear. <b>Important</b> This check box is visible only if the administrator has unchecked the <b>Hide end user VM provision later</b> check box.

Name	Description
<b>Lease Time</b> check box	<p>Check this check box to configure a lease time for the VM.</p> <p>The lifetime of the VM can be assigned in terms of days and hours (automatically). The VM is terminated after the specified number of days and hours have elapsed.</p> <p><b>Important</b> This field is editable only if the administrator has not specified a lease time in the catalog used for VM provisioning and has unchecked the <b>Hide end user lease configuration</b> check box.</p>
<b>Days</b> field	<p>The number of days after which the VM is terminated.</p> <p><b>Note</b> This option appears when the <b>Lease Time</b> check box is checked.</p>
<b>Hours</b> field	<p>Choose the number of hours after which the VM is terminated.</p> <p><b>Note</b> This option appears when the <b>Lease Time</b> check box is checked.</p>
<b>Charge Duration</b> drop-down list	<p>Choose a charge duration from the drop-down list. It can be <b>Monthly</b>, <b>Daily</b>, or <b>Hourly</b>.</p>
<b>Month</b> field	<p>If you selected <b>Monthly</b> as the charge duration, then specify the number of months the default cost must be calculated for.</p>
<b>Hourly</b> field	<p>If you selected <b>Hourly</b> as the charge duration, then specify the number of hours the default cost must be calculated for.</p>
<b>Daily</b> field	<p>If you selected <b>Daily</b> as the charge duration, then specify the number of days to be included in the cost computation.</p>

**Step 9** Click **Next**.

**Step 10** On the **KVM Custom Specification** screen, complete the following fields.

Name	Description
<b>CPU Cores</b> field	<p>The number of CPUs being utilized for the VM being provisioned. This list is available only if you configured the resizing option in the computing policy.</p>

Name	Description
Memory field	The amount of memory for the VM being provisioned. This list is available only if you have configured the resizing option in the computing policy.
Disks field	The datastore for the VM being provisioned. The list of datastores available for selection depends upon the conditions established in the storage policy. You can enable or disable this option in the storage policy.
Storage Tier field	The storage entry for the VM being provisioned. This list appears only if the Virtual Storage Catalog is enabled for the selected catalog.
Select Datastore drop-down list	Choose a datastore. Click <b>Submit</b> to confirm your selection. For templates with multiple disks, you must repeat the datastore selection process for each disk.  <b>Note</b> You can select only one datastore for each disk category (System, Data, Database, Swap, and Log). The list of datastore items depends upon the scope conditions in the storage policy.

**Step 11** Click Next.

**Step 12** On the **Custom Workflow Inputs** screen, complete the following fields:

**Note** The custom workflow inputs are applicable, if the catalog selected for VM provisioning has Post Provisioning Custom Actions selected during catalog creation. In this scenario, the post provisioning workflow allows end users to specify custom inputs. The inputs option depends upon the workflow attached to a catalog.

Name	Description
MAC Address field	The MAC address of the server.
IP Address field	The IP address of the server.
Host Name field	The hostname of the server.

**Step 13** Click Next.

**Step 14** The **Summary** screen appears. Review the information for accuracy.

**Step 15** Click **Submit**.

### What to Do Next

View the service request status.

