



# Managing Catalogs

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## 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.

From the **Catalog** page, you can create a Service Request. Click **Create Service Request**, and complete the procedure documented in [Creating a Service Request with Catalog Type—Standard](#).

**Note**

Place the **Catalogs** option on the menu bar to easily access all the catalog-related options. Click your user name on the top right corner of the interface, choose the **Catalogs** tab in the **User Information** dialog box, and check the **Enable Catalogs** check box.

## 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.

For information on how to create a bare metal catalog, see [Creating a Bare Metal Server Catalog](#), on page 11.
- Step 4** Click **Submit**.
- Step 5** On the **Add Catalog: Basic Information** screen, complete the required fields, including the following:

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

Name	Description
<b>Image list</b>	<p>Choose 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 and click <b>Validate</b>.</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	<p>Check this box to ensure that the new VM is provisioned using the Content Library VM Template.</p> <p>If you choose this option, the <b>Image list</b> is hidden.</p>
<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>
<b>Use 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>
<b>Use 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>

Name	Description
<b>Provision all disks in single datastore</b> 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>For more information on multiple disk storage policy creation, see <a href="#">Managing Policies</a>.</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>
<b>Service Container Template Name</b> 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>
<b>Select Folder</b> 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>
<b>Bare Metal Server Provisioning Policy</b> drop-down list	<p><b>Note</b> This field appears only when the chosen Catalog Type is <b>Bare Metal</b>.</p>
<b>Configure Service Request Support Email</b> check box	Check this box to enable the user to set the support email for sending service request status.

**Step 6** Click Next.

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

Name	Description
<b>Category</b> list	Expand the list to choose a VDC category and click <b>Select</b> .
<b>Override</b> check box	Check the box to enable the user to override the selected category while provisioning a VM using a service request.
<b>Support Contact Email Address</b> field	Enter the email address of the contact who is notified when a service request is created using this catalog item.

Name	Description
<b>Specify OS</b> 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.
<b>Specify Other OS</b> 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.
<b>Specify Applications</b> 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.
<b>Specify Other Applications</b> 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.
<b>Application Code</b> 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	<p>Choose to allow or disallow users to retrieve VM access credentials (shared). The following options are available:</p> <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> <p>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.</p>
<b>User ID</b> field	<p>Enter the user ID.</p> <p><b>Note</b> This field is available only if a choice is made to share under <b>Credential Options</b>.</p>
<b>Password</b> field	<p>Enter the password.</p> <p><b>Note</b> This field is available only if a choice is made to share under <b>Credential Options</b>.</p>

**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	<p>Check the box to enable automatic guest customization.</p> <p>If you do not check this check box, then Cisco UCS Director does not configure the DNS, Network, and Guest OS properties.</p>
<b>Post Provisioning Custom Actions Enable</b> check box	<p>Check the box to enable execution of an orchestration workflow after VM provisioning.</p>
<b>Workflow</b> drop-down list	<p>Choose a defined workflow for provisioning.</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	<p>Check the box to choose storage entries from the Virtual Storage catalog.</p>
<b>Virtual Storage Catalog</b> drop-down list	<p>Choose 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>	

Name	Description
<b>Charge Duration</b> drop-down list	Choose <b>Hourly</b> or <b>Monthly</b> .
<b>Active VM Application Cost USD</b> field	Enter the cost for the application that is included in the template. <b>Note</b> This option is not supported in the RHEV KVM Connector.
<b>Inactive VM Application Cost USD</b> field	Enter the cost to this catalog of a VM in inactive state, per hour or month. <b>Note</b> This option is not supported in the RHEV KVM Connector.
<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	Enter the number of days. <b>Note</b> This field appears when <b>Lease Time</b> is checked.
<b>Hours</b> field	Enter the number of hours. <b>Note</b> This field appears when <b>Lease Time</b> is checked.
<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.
<b>URL</b> field	Enter the URL of the VM. <b>Note</b> This field appears when <b>Web Access Configuration Enable</b> is checked.
<b>Label</b> 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.



Name	Description
<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.
<b>Server</b> 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.
<b>Port</b> 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.
<b>Label</b> 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**.

## About Publishing Advanced Catalogs

When you choose the Advanced catalog type, you can provision workflow catalogs. End users can execute workflows with these catalogs during a Service Request. You create an Advanced Catalog Item by defining parameters such as Group Name and Workflow.

# Publishing Advanced Catalogs

## Procedure

- Step 1** Choose **Policies > Catalogs**.
- Step 2** On the **Catalog** page, click **Add**.
- Step 3** In the **Catalog Add** screen, from the **Catalog Type** drop-down list, select **Advanced**.
- Step 4** Click **Submit**.
- Step 5** In the **Add Catalog** screen, complete the required fields, including the following:

Name	Description
<b>Basic Information Pane</b>	
<b>Catalog Name</b> field	The name of the catalog.
<b>Catalog Description</b> field	The description of the catalog.
<b>Catalog Type</b>	Choose <b>Advanced</b> .
<b>Catalog Icon</b> drop-down list	Choose the icon to associate this catalog with an image. The icon is seen when creating a service request using this catalog.
<b>Applied to all groups</b> check box	Check the check box to enable all groups to use this catalog. By default, this check box is not checked, which means that all groups cannot use this catalog.
<b>Support Contact Email Address</b> field	The email address of the support contact person.
<b>Selected Groups</b>	<p>Click <b>Select</b> and complete the following:</p> <ol style="list-style-type: none"> <li>1 (Optional) Click <b>Check All</b> to choose all of the categories or click <b>Check None</b> to deselect all categories.</li> <li>2 From the <b>Select Items</b> dialog box, check the appropriate groups to include. The checked groups can use this catalog to provision new VMs.</li> <li>3 Click <b>Select</b> to finish your selection of categories.</li> </ol>
<b>Publish to end users</b> check box	By default, this check box is checked, which means that the catalog is available to end users. Uncheck this check box if you do not want this catalog to be visible to end users.

Name	Description
<b>Select Folder</b> drop-down list	<p>Choose the folder within which this catalog must be created in.</p> <p><b>Note</b> The drop-down list includes names of folders that are already available. You can either select a folder that is available, or click the + icon to create a new folder.</p> <p>To create a new folder in the <b>Add New Folder</b> dialog box, specify a folder name, and select an icon for the folder.</p>
<b>Configure Service Request Support Email</b> field	Check this check box to specify the email address to which the service request status email must be sent to.

- Step 6** Click **Next**.
- Step 7** In the **vApp Workflow** pane, click **Workflow Select**.
- Step 8** In the **Select** pane, check the check box next to the appropriate workflow.
- Step 9** Click **Select**.
- Step 10** Review the catalog information on the **Summary** page.
- Step 11** Click **Submit**.

## Creating a Bare Metal Server Catalog

### Before You Begin

You should have created a bare metal provisioning policy.

### Procedure

- Step 1** Choose **Policies > Catalogs**.
- Step 2** On the **Catalog** page, click **Add**.
- Step 3** In the **Add Catalog** screen, choose **Bare Metal** as the Catalog Type.
- Step 4** Click **Submit**.
- Step 5** In the **Add Catalog** screen, complete the required fields, including the following:

Name	Description
<b>Basic Information</b> pane	

Name	Description
<b>Catalog Name</b> field	Enter a name of the catalog. <b>Note</b> Once created, a catalog name cannot be modified.
<b>Catalog Description</b> field	Enter a description of the catalog.
<b>Catalog Type</b> drop-down list	This field cannot be edited. It displays Bare Metal.
<b>Catalog Icon</b> 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.
<b>Applied to all groups</b> check box	Check the check box to enable all groups to use this catalog. Leave it unchecked to deny its use to other groups.
<b>Support Contact Email Addresses</b> field	Specify the email address of the support contacts. These users will receive email notifications on the status of the bare metal server provisioning using the catalog. <b>Note</b> This notification email is also sent to the user who initiates the bare metal server provisioning.
<b>Selected Groups</b> check box list	Check the check boxes for included groups that are from the <b>Select Items</b> dialog box. The checked groups use this catalog to provision new bare metal servers.
<b>Publish to end users</b> check box	By default, this check box is checked. Uncheck this check box if you do not want this catalog to be visible to end users. If you do not uncheck this check box, then this catalog is visible to the end users of the system.
<b>Select Folder</b> drop-down list	Choose the folder within which this catalog must be created. <b>Note</b> The drop-down list includes names of folders that are available by default. You can either select a folder that is available, or click the + icon to create a new folder.  To create a new folder in the <b>Add New Folder</b> dialog box, specify a folder name, and select an icon for the folder.
<b>Bare Metal Server Provisioning Policy</b> drop-down list	Choose a bare metal provisioning policy.

Name	Description
<b>Configure Service Request Support Email</b> check box	By default, this check box is unchecked. Check this check box to specify an email address to which the status of the service request must be emailed to.

**Step 6** Click **Next**.

**Step 7** In the **Bare Metal Workflow** pane, click **Select** to choose a bare metal server provisioning workflow. To create a bare metal workflow, you will need to include the following set of tasks at a minimum:

- The Bare Metal Provisioning wrapper
- Select UCS Server
- Create UCS Service Profile from Template
- Associate UCS Service Profile
- Setup PXE Boot With BMA Selection
- Power On UCS Server
- Monitor PXE Boot
- Modify UCS Service Profile Boot Policy
- Power On UCS Server
- Assign UCS Server to Group

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

**Step 9** Review the catalog information in the **Summary** pane.

**Step 10** Click **Submit**.

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### What to Do Next

Using this catalog, you can create a service request for bare metal servers.

## Reordering Catalogs Within a Folder

By default the catalogs within a folder are listed alphabetically, but you can customize the order.

### Procedure

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

**Step 2** On the **Catalog** page, expand a folder to view the catalogs within it.

**Step 3** Select a catalog from the list.

**Step 4** Click the **Move Up** or **Move Down** options to reorder the catalogs.

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## Accessing Hosts for Deployment

You can choose a catalog item to assess deployable hosts and provide a reason for hosts that are excluded. You can determine if you want to run this assessment on all configured VDCs, or on certain specific VDCs.

### Procedure

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- Step 1** Choose **Policies > Catalogs**.
- Step 2** On the **Catalog** page, choose a **Catalog Entry** to assess.
- Step 3** Click **Deployability Assessment**.
- Step 4** In the **Select vDC** screen, complete the required fields, including the following:

Field	Description
<b>Run Assessment Across all VDCs</b> check box	By default, this check box is checked, which indicates that this catalog item will be assessed with all VDCs. Uncheck this check box to select specific VDCs.
<b>Select VDC</b> field	Click <b>Select</b> to check the check boxes of the VDCs against which you want the catalog item assessed.  The list displays all the vDCs associated with the user group for the selected catalog.

- Step 5** Click **Submit**.
- Step 6** View the **Deployability Assessment** report and the click **Close**.
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## Reordering Catalog Folders

By default the catalog folders are listed alphabetically, but you can customize the order.

### Procedure

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- Step 1** Choose **Policies > Catalogs**.
- Step 2** Click **Manage Folder**.
- Step 3** In the **Manager Folder** screen, select a catalog folder and use the arrows to reorder the folders.
- Step 4** Click **Submit**.
-