



Performing VM Lifecycle Management

This chapter contains the following sections:

- [About VM Lifecycle Management Actions, page 1](#)
- [Managing VM Power, page 2](#)
- [Resizing VMs, page 3](#)
- [Creating a VM Disk, page 4](#)
- [Resizing a VM Disk, page 5](#)
- [Deleting A VM Disk, page 6](#)
- [Adding vNICs, page 6](#)
- [Replacing vNICs, page 7](#)
- [Deleting vNICs, page 8](#)
- [Viewing VM Details, page 8](#)
- [Launching VM Client, page 9](#)
- [Requesting Inventory Collection for VM, page 9](#)

About VM Lifecycle Management Actions

You can perform post provisioning lifecycle management actions that are permitted by administrators. You can also view the entire list of virtual machines (VMs) provisioned using service requests under their group. All VMs that belong to a particular group are displayed. The available lifecycle management actions are as follows:

- Managing a VM's power use
- Resizing a VM
- Creating a VM disk
- Deleting a VM disk
- Adding a vNIC

- Deleting a vNIC

Viewing All VMs

The viewing all VMs feature displays all of the VMs and their details such as VM ID, host name, IP address and power state.



Note

To view the VM actions on a VM, the administrator has to give permission by checking the End User Self-Serve options in the group's vDC.

Procedure

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- Step 1** On the menu bar, click **Virtual Resources** and choose the **VMs** tab.
- Step 2** Choose a VM entry from the list or right-click on a VM to bring up available actions for that VM.
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What to Do Next

Manage the VMs resources.

Managing VM Power

Managing a VM's power functions includes power on, powering off, suspending power, resetting the VM and more.

Before You Begin

Provision a VM.

Procedure

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- Step 1** Click **Virtual Resources** and choose **VMs**.
- Step 2** Right-click on a VM and choose **Power On**.
In the **VM Task** dialog box, complete the following fields:

Name	Description
VM Name field	Name of the VM.
Task field	Selected power management task.
Comments field	Enter comments if required.
Schedule Action field	Specify either to power on the VM now or at a specific date and time.

Note The following actions appear in **Similar field's Comments** and **Schedule Actions** panes:

Action	Description
Power Off	Power Off the VM.
Suspend	Places the VM in a suspended state.
Shutdown Guest	Shuts down the Guest OS on the VM.
Standby	Moves the VM to standby state.
Reset	Performs a hard reset of the VM.
Reboot	Performs a soft reboot of the VM.

Step 3 Click **Proceed**.

Resizing VMs

Before You Begin

Create a provisioned VM. The administrator must also provide permission by enabling the End User Self-Service Options in the group's vDC.

Procedure

- Step 1** Click **Virtual Resources** and choose **VMs**.
- Step 2** Right-click on a VM and choose **Resize VM**.
- Step 3** In the **Resize VM** dialog box, complete the following fields:

Name	Description
VM Name field	The name of the selected VM.
Current Allocated CPU field	The number of allocated CPUs being used by the VM.
Current Allocated Memory (GB) field	The amount of memory allocated to the VM.
New CPU Count drop-down list	Choose the CPU required from the drop-down list.
New Memory drop-down list	Choose the amount of memory required from the drop-down list.

Name	Description
Current CPU Cost (Currency: USD) field	Displays the current CPU cost per hour. This value is calculated based on the currently allocated CPU for the VM.
Current Memory Cost (Currency: USD) field	Displays the current memory cost per hour. This value is calculated based on the currently allocated memory for the VM.
New CPU Cost (Currency: USD) field	Displays the CPU cost per hour for the new CPU count that you specify for the VM.
New Memory Cost (Currency: USD)	Displays the memory cost per hour for the new memory that you specify for the VM.

Step 4 Click **Resize**.

Creating a VM Disk

Before You Begin

Create a provisioned VM. The administrator must also provide permission by enabling the End User Self-Service Options in the group's vDC.

Procedure

Step 1 On the menu bar, click **Virtual Resources** and choose the **VMs** tab.

Step 2 Right-click on a VM and choose **Create VM Disk**.

Step 3 In the **Create VM Disk** dialog box, complete the following fields:

Name	Description
VM Name field	The name of the selected VM.
New Disk (GB) field	Enter the disk size for the VM in GB.
Select Disk Type drop-down list	Select the required disk from the drop-down list.
Select Datastore drop-down list	Select a datastore from the drop-down list. Note The datastore's selection is available, depending upon the storage policy that is associated to the VM (specifically the VM's vDC)
Thin Provision check box	Check this check box to use thin provisioning during VM creation. Note Thin provisioning enables dynamic allocation of the physical storage capacity to increase VM storage utilization.

Name	Description
Compute New Disk Cost field	This option calculates and displays the disk cost, per hour, based on the new disk size and the datastore you have specified for the VM disk.

Step 4 Click **Create**.

Resizing a VM Disk

This feature lets you modify the allocated (provisioned) disk space for the VM. By default, you can only increase the disk size of the VM.



Note The disk size of a VM can only be increased and not decreased.

Before You Begin

Create a provisioned VM. The administrator must also provide permission by enabling the End User Self-Service Options in the group's vDC.

Procedure

Step 1 On the menu bar, click **Virtual Resources** and choose the **VMs** tab.

Step 2 Right-click on a VM and choose **VM Disk Resize**.

Step 3 In the **Resize VM Disk** dialog box, complete the following field:

Name	Description
VM Name field	The name of the VM. This name cannot be edited.
Select Disk drop-down list	Select the VM disk from the drop-down list.
Total Provisioned (GB) field	Displays the total provisioned space on the VM.
New Size (GB) field	The new size for the VM. The new disk size should be greater than the total provisioned size.
Current Disk Cost (Currency: USD) field	Displays the current disk cost per hour.
Compute New Disk Cost field	This option calculates the disk cost, per hour, based on the new disk size you specified.

Name	Description
New Disk Cost (Currency: USD) field	Displays the disk cost per hour for the new disk size specified for the VM.

Step 4 Click **Resize**.

Deleting A VM Disk

Before You Begin

Create a provisioned VM. The administrator must also provide permission by enabling the End User Self-Service Options in the group's vDC.

Procedure

Step 1 On the menu, click **Virtual Resources** and choose **VMs**.

Step 2 Right-click on a VM and choose **Delete VM Disk**.

Step 3 In the **Delete VM Disk** dialog box, complete the following fields:

Name	Description
VM Name field	The name of the selected VM.
Select Disk Name drop-down list	Choose a hard disk from the drop-down list.

Step 4 Click **Delete**.

Adding vNICs

You can add multiple vNICs to a VM. You have the option of either adding or replacing a vNIC in a VM. Which options are available is dependent upon the network policy mapped to your vDC and associated to your particular VM.

Before You Begin

Create a provisioned VM. The administrator must also provide permission by enabling the End User Self-Service Options in the group's vDC.

Procedure

- Step 1** On the menu bar, click **Virtual Resources** and choose **VMs**.
- Step 2** Right-click on a VM and choose **Add vNICs**. The **Add VM vNICs** dialog box appears.
- Step 3** From the **Operation** drop-down list choose **Add**.
The **Edit** icon and the **Delete** icon are only used to edit or delete your new vNICs in this window.
- Step 4** Click the **Add** icon to add the vNIC.
This step is not allowed if the network policy limits you to a certain number of vNICs.

Name	Description
NIC Alias drop-down list	The vNIC alias.
Port Group Name field	The port group name.
Adapter Type drop-down list	The adapter type. <i>Copy Adapter Type from Template</i> must be disabled in the network policy in order to choose this selection.
DHCP checkbox	Use DHCP to assign IP address.
Gateway IP Address field	Enter a gateway IP address. Note The <i>NIC alias</i> , <i>Portgroup</i> name, <i>Adapter Type</i> , and <i>DHCP</i> selections are dependent upon your settings in the network policy associated to the VM (specifically the VM's vDC).

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

Replacing vNICs

The replace operation removes all of the existing vNICs from the VM. New vNICs are added using the **Add** icon

Before You Begin

Create a provisioned VM as well having an existing vNIC available. The administrator must also provide permission by enabling the *End User Self-Service Options* in the group's vDC.

Procedure

- Step 1** On the menu bar, click **Virtual Resources** and choose **VMs**.
 - Step 2** Right-click on a VM and choose **Delete vNICs**.
The **Delete VM vNICs** dialog box appears.
 - Step 3** From the VM vNICs drop-down list choose a vNIC.
The **Select Items** dialog box appears.
 - Step 4** Check the checkbox of the vNIC you want to delete or click **Check All** to select all vNICs.
 - Step 5** Click **Select**.
 - Step 6** Click **Delete**.
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The VM is restarted in order to complete the removal process.

Deleting vNICs

You can delete existing (or multiple) vNICs on a VM.

Before You Begin

Create a provisioned VM as well having an existing vNIC available. The administrator must also provide permission by enabling the *End User Self-Service Options* in the group's vDC.

Procedure

- Step 1** On the menu bar, click **Virtual Resources** and choose **VMs**.
 - Step 2** Right-click on a VM and choose **Delete vNICs**.
The **Delete VM vNICs** dialog box appears.
 - Step 3** From the **VM vNICs** drop-down list choose a vNIC.
The **Select Items** dialog box appears.
 - Step 4** Check the checkbox of the vNIC you want to delete or click **Check All** to select all vNICs.
 - Step 5** Click **Select**.
 - Step 6** Click **Delete**.
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The VM is restarted in order to complete the removal process.

Viewing VM Details

This feature lets you view details about the VM, such as VM action request, vNICs, VM snapshots and general summary information.

Procedure

- Step 1** On the menu bar, click **Virtual Resources** and choose **VMs**.
- Step 2** Right-click on a VM and choose **View Details**.
The Summary screen appears.

Launching VM Client

This feature lets you set up either web access, remote, or a VNC console. The VNC console provides access for each VM. The console provides full control capabilities of the VM. The console is accessible using any standalone web browser and no plug-in is required. Cisco UCS Director provides automatic configuration of the console.



Note You can access a VM's login credential when it is setup for Web or remote desktop access. An administrator must provide the proper catalog (and necessary privileges) from which the VM is provisioned.

Before You Begin

The administrator must enable the feature.

Procedure

- Step 1** On the menu bar, click **Virtual Resources** and choose **VMs**.
- Step 2** Right-click on a VM and choose **Launch VM Client**.
The **Launch Client** dialog box appears.
- Step 3** In the **Launch Client** dialog box, select an access scheme:

Name	Description
Access Scheme drop-down list	Choose an access scheme from the drop-down list. The schemes are VNC Console, Web Access, and Remote Access.

- Step 4** Click **Proceed**.
The VNC console (in a Web browser) appears. Additional login is required to access the VM console.

Requesting Inventory Collection for VM

You can select a VM and request an on demand inventory collection



Note Modifying the allocated resources could change the chargeback amount for the VM. Chargeback for a VM is calculated based on the cost model defined by the administrator for a catalog. A VM's chargeback is calculated based upon the catalog selected for provisioning the VM.

Procedure

- Step 1** On the menu bar, click **Virtual Resources** and choose **VMs**.
- Step 2** Right-click on a VM and choose **Request Inventory Collection Request for VM**.
The **Request VM Inventory Collection** dialog box appears.
- Step 3** Click **Submit**.
The VM inventory collection is completed.
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