



System Monitoring and Reporting

This chapter contains the following sections:

- [Dashboard, page 1](#)
- [Summary, page 2](#)
- [Inventory Management, page 3](#)
- [Resource Pools, page 4](#)
- [Clusters, page 4](#)
- [Images, page 5](#)
- [Host Nodes, page 6](#)
- [Virtual Machines \(VMs\), page 7](#)
- [Topology, page 7](#)
- [Assessment, page 8](#)
- [Reports, page 8](#)

Dashboard

In Cisco UCS Director, you can enable the **Dashboard** option in the user interface. On this **Dashboard** page, you can add important, or frequently accessed report widgets. If you have enabled the **Dashboard** option, then this is the first window that you see when you log in to the user interface.

Enabling the Dashboard

Before You Begin

You must be logged in to the appliance to complete this task.

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| Step 1 | At the top right of the window, click admin . |
| Step 2 | Choose the Dashboard tab. |
| Step 3 | Check the Enable Dashboard check box. |
| Step 4 | Click Apply . |
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Adding Report Widgets

Before You Begin

You must be logged in to the appliance to complete this task.

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| Step 1 | On the menu bar, choose Virtual > Compute . |
| Step 2 | From the left panel, choose the cloud name. |
| Step 3 | Choose the tab with the type of report you want to view. |
| Step 4 | At the top right of a report, click the down arrow. |
| Step 5 | Choose Add to Dashboard . |
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Refreshing Widget Data

After enabling the **Dashboard** option, you can set a refresh interval to the widgets on this page. Automatic refresh can occur at intervals from a minimum of 5 minutes to a maximum of 60 minutes.

The **Automatic Refresh** button on the dashboard should be set to **ON** to configure the interval.

Summary

The **Summary** window allows you to manage system inventory. It gives you access to a wide array of tabular, graphical, and map reports, and also helps in managing inventory lifecycle actions.

Each report is displayed as a widget. Reports can be hidden through customization.

Viewing Virtual Machine, Cloud, and System Summary Information

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** Choose the **Summary** tab.
All information is displayed in the form of tables, graphs, and charts.
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Customizing Summary Report Widgets

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** Choose the **Summary** tab.
- Step 3** Click the **Customize** icon to bring up the available report widgets.
- Step 4** Click and drag a widget onto the **Dashboard**.
- Step 5** Double-click the report to expand the view, or click the top right side of a report and choose **Expand View**.
- Step 6** Adjust the size of the reports displayed on the **Dashboard** by using the slide bar.
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Inventory Management

You can monitor the system inventory using the **Dashboard**. The **Dashboard** displays the entire system level infrastructure information for administrative management.

Accessing System Inventory Details

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** From the left panel, choose the cloud name.
- Step 3** Choose any of the tabs to view detailed information.
Following is a list of some of the tabs visible for each cloud:
- Summary
 - Polling
 - VDCs
 - Clusters

- Host Nodes
 - Resource Pools
 - VMs
 - VM Action Requests
 - Events
 - Assessment
 - Application Categories
 - Data Centers
 - SRM Sites
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Resource Pools

The **Resource Pools** tab shows resource details at the host node level. These details include the CPU configured reservation, CPU limit, CPU used, and memory used.

Accessing Resource Details

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** From the left panel, choose the cloud name or choose **All Clouds**.
- Step 3** Choose the **Resource Pools** tab.
All the resource pools for the selected cloud are displayed. You can select a resource pool and click **View Details** to view detailed information of each resource pool.
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Clusters

If a pod includes clusters, then the **Clusters** tab displays all the cluster-related information.

Accessing Clusters

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- Step 1** On the menu bar, choose **Virtual > Compute**.
 - Step 2** Choose **All Clouds** in the left panel, or choose a specific cloud name.
 - Step 3** Choose the **Clusters** tab.
All clusters available in the selected cloud accounts are displayed. You can select a specific cluster, and click **View Details**.
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Images

The **Images** tab displays all available image IDs and their details. These images include guest OS, CPU, memory, and storage provisioned. You can use these image IDs to provision new virtual machines (VMs). If you are a group administrator, or an MSP administrator, then the **Images** tab displays images that have been assigned to your group.

If you select a specific VMware cloud account, and select the **Images** tab, you can assign images to groups or to individual users. Images assigned to a particular group or user are displayed when administrators of the relevant group log in to the system.

Accessing Images

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- Step 1** On the menu bar, choose **Virtual > Compute**.
 - Step 2** Choose **All Clouds** from the left panel, or choose a specific cloud account.
 - Step 3** Choose the **Images** tab.
A list of images associated with the selected clouds is displayed. You can select a specific image and click **View Details**.
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Assigning VM Images to Users or Groups

As an administrator, you can assign specific VM images to users or groups. The assignments filter the images that are displayed when you perform VM provisioning tasks, such as creating catalogs.

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** Choose a VMware cloud and choose the **Images** tab.
- Step 3** Choose an image from the table.
- Step 4** Choose **Assign Image to Group**.
- Step 5** To assign an image to a group, in the **Assign Image to Group** dialog box, click **Select** to check the names of the groups.
- Step 6** To assign an image to individual users, in the **Assign Image to Group** dialog box, complete the following fields:

Name	Description
Assign to Users check box	Check the check box to assign the image to specific users.
User field	Click Select to check the names of users to whom you want to assign the image.

- Step 7** Click **Submit**.
- Step 8** Click **OK**.
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Host Nodes

The **Host Nodes** tab displays all physical host nodes that are available in the infrastructure. The tab lists details such as the ESX/ESXi version installed, active VMs, and power status.

Accessing Host Nodes

Before You Begin

You must be logged in to the appliance to complete this task.

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** Choose the **Host Nodes** tab.
- Step 3** From the drop-down list, choose a **Report** type on the toolbar.
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Virtual Machines (VMs)

The **VMs** tab displays all the VMs and VM-specific details for the chosen cloud.

Accessing VMs

Step 1 On the menu bar, choose **Virtual > Compute**.

Step 2 Choose the **VMs** tab.

All virtual machines for all cloud accounts are displayed. You can perform additional tasks on these VMs such as launching VM client or powering off VMs. For more information, see [Managing VM Actions](#).

Accessing Group Level VMs

Step 1 On the menu bar, choose **Organizations > Virtual Resources**.

Step 2 From the left panel, choose a group and then choose the **VMs** tab.

All virtual machines for the selected group are displayed. You can perform additional tasks on these VMs such as launching VM client or powering off VMs. For more information, see [Managing VM Actions](#).

Topology

The **Topology** tab displays VMware cloud topology. There are four view mode types: Hierarchical, Concentric, Circular, and Force Directed. Depending on the mode, you can adjust the item spacing, distance, radius, rigidity, and force distance.

Accessing Topology Types

Before You Begin

You must be logged in to the appliance to complete this task.

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** From the left panel, choose the cloud name.
- Step 3** Choose the **Topology** tab.
- Step 4** Choose one of the topology types: **Hostnode-Datastore Topology**, or **Hostnode-VM Topology**.
- Step 5** On the toolbar, click the **View Connectivity** button. The topology appears in a new window.
- Note** Not all of the topology types are displayed.
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Assessment

The **Assessment** tab displays assessment reports, including cloud readiness, virtualization best practices, performance optimization, capacity, and power optimization.

Accessing Assessments

Before You Begin

You must be logged in to the appliance to complete this task.

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- Step 1** On the menu bar, choose **Virtual > Compute**.
- Step 2** From the left panel, choose the cloud name.
- Step 3** Choose the **Assessment** tab.
- Step 4** From the **Report** drop-down list, choose a report type.
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Reports

Cisco UCS Director can help you monitor virtual infrastructure and system resources. It displays a wide variety of reports that provide insight into how the system is performing.

Following are the types of reports:

- Tabular reports for system information, including overview, host nodes, new VMs, and deleted VMs.

- Bar and pie graph comparisons, including VMs active versus inactive, and CPU provisioned versus capacity.
- Trend graphs about system resources, including CPU trends, memory trends, and VM additions and deletions.
- Other reports include Top 5 reports at the group, VDC, host node, and VM levels. The Top 5 reports focus on groups with the highest number of VMs, groups with the greatest CPU usage, VDCs with the highest number of VMs, and host nodes with the greatest CPU usage.
- Map reports, displaying the system resource information in the form of heat maps or color-coded maps.

Additional trend reports are available for certain accounts (for example: KVM accounts). Trend reports display data over a selected time frame.

Accessing Reports

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| Step 1 | On the menu bar, choose Virtual > Compute . |
| Step 2 | From the left panel, choose the cloud name. |
| Step 3 | Choose the tab with the required type of report (Map , Top 5 , or More Reports). |
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