Managing Rack Servers

This chapter discusses the following topics:

Viewing Rack Server Details

Perform this procedure when you want to view the details of a rack server.

Before You Begin

The server is already added as a rack account under a rack group.

Procedure

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

Step 2 In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3 In the right pane, click the **Rack Servers** tab.

Step 4 Double-click the sever from the list to view the details or click the sever from the list and click the down arrow on the far right and choose **View Details**.

Note You cannot see the down arrow on the far right till you select the server from the list.

The following details are available for a rack mount server:

Tab	Description
Summary	Displays an overview of the rack server.
CPUs	Displays the details of the CPUs in the server.
Memory	Displays details of the memory cards used in the server.
PSUs	Displays details of the power supply units in the server.
PCI Adapters	Displays details of the PCI adapters in the server.
VIC Adapters	Displays details of the VIC adapters in the server.
Network Adapters	Displays details of the network adapters in the server.
Storage Adapters	Displays details of the storage adapters in the server.
FlexFlash Adapters	Displays details of the Cisco FlexFlash adapters in the server.
Communication	Displays all the communication protocols that are configured in the server.
Remote Presence	Displays information on vKVM, vMedia and Serial over LAN (SOL) for the server.
Faults	Displays the details of the faults logged in the server. • Severity • DN • Description • Code - Error code for the fault. • Created - Date and time the fault was logged. • Cause - Reason for the fault.
Users	Displays the list of users for the server.

Tab	Description
Cisco IMC Log	Displays the details of the Cisco IMC logs for the server. You can also clear the Cisco IMC logs.
System Event Log	Displays the details of the server logs.
TPM	Displays information on the TPM inventory.
BIOS	Displays BIOS-related information of the server.
Fault History	Displays historical information on the faults that occurred on the server.
Tech Support	Provides an option to upload tech-support log files to a remote server or to a local server.
Associated Hardware Profiles	Displays the server profiles that are associated with the server.

Step 5   Click **Back** on the far right to return to the previous window.

Viewing Fault Details of a Rack Server

Perform this procedure when you want to view the fault details of a rack server.

Before You Begin

The server is added as a rack account within a rack group.

Procedure

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

Step 2   In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3   In the right pane, select the **Faults** tab.

Step 4   Double-click the sever from the list to view the details or click the sever from the list and click the down arrow on the far right and choose **View Details**.

      Note   You cannot see the down arrow on the far right till you select the server from the list.

The following details are available for a rack mount server:

Tab	Description
Explanation	Brief reason for the issue.
Recommendation	Steps to resolve the issue.

Step 5 Click the **Back** button on the far right to return to the previous window.

Setting a Label for a Rack Server

Perform this procedure when you want to set label for a rack mount server.

Before You Begin

The server is already added as a rack account under a rack group.

Procedure

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

Step 2 In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3 In the right pane, click the **Rack Servers** tab.

Step 4 Select the server from the list.

Step 5 Click **Set Label**.
> **Note** You cannot see **Set Label** button till you select the server from the list.

Step 6 Enter a new label.

Step 7 Click **Submit**.

Step 8 In the **Submit Result** dialog box, click **OK**.

Managing Tags for a Rack-Mount Server

Tagging is used to assign a label to an object, such as a resource group or a rack server. Tags can be used to provide information such as rack locations, responsible support groups, purpose, or operating system. Perform this procedure to add tags or modify tags.

Before You Begin

The server is already added as a rack account under a rack group.

Procedure

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

Step 2   In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3   In the right pane, click the **Rack Servers** tab.

Step 4   Select a server from the list

Step 5   Click **Manage Tags**.

   Note   You cannot see **Manage Tags** button until you select the rack-mount server or UCS C3260 server from the list.

Step 6   Click + to add an entry to the **Manage Tags** table.

Step 7   In the **Add Entry to Tag** dialog box, complete the following:

Field	Description

Tag Name	Select the tag name from the drop-down list and click **Submit** or create a new tag.
	
	1 Click the + icon.
	
	2 In the **Create Tag** window, do the following:
	
	   a In the **Name** field, enter a descriptive name for the tag.
	
	   b In the **Description** field, enter a description of the tag.
	
	   c In the **Type** field, select String or Integer from the drop-down list.
	
	   d In the **Possible Tag Values** field, enter a possible value for the tag.
	
	   e Click **Next**.
	
	   f Click the + icon to add a new category.
	
	3 In the **Add Entry to Entities** window, from the **Category** drop-down list, choose the category. It can be one of the following:
	
	   • **Physical_Compute** category creates tag entities for a Rack Server.
	
	   • **Administration** category creates tag entities for users.
	
	Note You can also add tags for a chassis. For more information about adding tags for a chassis, see Adding Tags for Cisco UCS C3260 Rack Server.
	
	4 Check the **Rack Servers** or **Chassis** check box.
	
	5 Click **Submit**.
	Note The tags are displayed under the respective category according to the set taggable entities.
	
	6 In the confirmation dialog box, click **OK**.

Tag Value	Select the tag value from the drop-down list.

Step 8 Click **Submit**.

Step 9 In the **Submit Result** dialog box, click **OK**.

Step 10 Select a tag in the **Manage Tags** dialog box and click on the Edit icon to edit a tag.

Step 11 Choose the Tag Name and Tag Value to modify the tags

Step 12 Click **Submit**.

Step 13 In the **Submit Result** dialog box, click **OK**.

Adding Tags for a Rack-Mount Server

Tagging is used to assign a label to an object, such as a resource group or a rack server. Tags can be used to provide information such as rack locations, responsible support groups, purpose, or operating system. Perform this procedure to add tags to a rack mount server.

Before You Begin

The server is already added as a rack account under a rack group.

Note You can also select multiple rack servers.

Procedure

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

Step 2 In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3 In the right pane, click the **Rack Servers** tab.

Step 4 Select a server from the list

Step 5 Click **Add Tags**.
Note You cannot see **Add Tags** button till you select the server from the list.

Step 6 Choose the **Tag Name** from the drop-down list.

Step 7 Choose the **Tag Value** from the drop-down list.

Step 8 Click on the plus icon to create a new tag. See Managing Tags for a Rack-Mount Server, on page 4 to create tags.
Note You can also clone, edit, delete, and view tag details.

Setting Locator LED for a Rack Server

Perform this procedure when you want to set locator LED for a rack server.

Before You Begin

The server is already added as a rack account under a rack group.

Procedure

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

Step 2   In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3   In the right pane, click the **Rack Servers** tab.

Step 4   Select the sever from the list.

Step 5   Click **Locator LED**.
   Note   You cannot see **Locator LED** button till you select a server from the list.

Step 6   From the **Turn** drop-down list, choose **ON/OFF**.

Step 7   Click **Submit**.

Step 8   In the **Submit Result** dialog box, click **OK**.

Powering On a Rack Server

Procedure

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

Step 2   In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3   In the right pane, click the **Rack Server** tab.

Step 4   Choose the row of the server that you want to power on.

Step 5   Click **Power On**.

Step 6   Click **Submit**.

Powering Off a Rack Server

Procedure

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

Step 2 In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3 In the right pane, click the **Rack Server** tab.

Step 4 Choose the row of the server that you want to power off.

Step 5 Click **Power Off**.

Step 6 Click **Submit**.

Performing a Hard Reset on a Rack Server

Perform this procedure when you want to hard reset a rack server.

Before You Begin

The server is already added as an account within a rack group.

Procedure

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

Step 2 In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3 In the right pane, click the **Rack Servers** tab.

Step 4 Select the sever from the list.

Step 5 Click **Hard Reset**.
> **Note** You cannot see the **Hard Reset** button till you select the server from the list.

Step 6 In the confirmation dialog box, click **OK**.

Shutting Down a Rack Server

Perform this procedure when you want to shut down a rack server.

Before You Begin

The server is already added as a rack account under a rack group.

Procedure

Step 1	On the menu bar, choose **Physical** > **Compute**.
Step 2	In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.
Step 3	In the right pane, click the **Rack Servers** tab.
Step 4	Select the sever from the list.
Step 5	Click **Shut Down**.
	Note You cannot see **Shut Down** button till you select the server from the list.
Step 6	In the confirmation dialog box, click **OK**.

Launching the KVM Console for a Rack Server

Before You Begin

You must have Java Run-Time Environment (JRE) installed on your system.

Procedure

Step 1	On the menu bar, choose **Physical** > **Compute**.
Step 2	In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.
Step 3	In the right pane, click the **Rack Server** tab.
Step 4	Choose the row of the server for which you want to start the KVM console.
Step 5	Click **KVM Console**.
Step 6	Click **Submit**. Cisco UCS Director downloads the `kvm.jnlp` file to your system.
Step 7	Double-click the `kvm.jnlp` file in your Downloads folder. The KVM Console opens in a separate window. For more information about using the KVM Console, see the Cisco UCS C-Series Servers Integrated Management Controller Configuration Guides.

Launching the Cisco IMC GUI for a Rack Server

Perform this procedure when you want to launch the Cisco IMC GUI for a rack mount server.

Before You Begin

The server is already added as a rack account within a rack group.

Procedure

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

Step 2   In the left pane, expand the pod that contains the rack server group, and then choose the rack server group.

Step 3   In the right pane, click the **Rack Servers** tab.

Step 4   Select the sever from the list.

Step 5   Click **Launch GUI**.

        Note   You cannot see the **Launch GUI** button till you select the server from the list.

Step 6   In the **Launch GUI** dialog box, click **Submit**.
The GUI for the server is launched in a separate browser.

Managing System Tasks for Rack Servers

System tasks are available for single node and multi node systems. For more information about how to manage system tasks, including the system task policy, see the Cisco UCS Director Administration Guide.

Procedure

Step 1   On the menu bar, choose **Adminstration** > **System**.

Step 2   Click the **System Tasks** tab.

Step 3   To access the system tasks you can use for rack servers, expand the following folders in the left column:

- **Rack Server Tasks**—System tasks that are specific to rack servers, such as monitoring and inventory tasks.

- **General**—System tasks that are available for all implementations, such as data purge, data aggregation, and deleted account clean-up tasks.

Step 4   After you choose a rack server task in the table, you can perform one or more of the following actions:

Name	Description
Manage Task	In the **Manage Task** dialog box, do the following: 1 From the **Task Execution** drop-down list, choose **Enable** or **Disable**. 2 From the **System Task Policy** drop-down list, choose **default-system-task-policy** or **local-run-policy**. 3 To set the frequency at which the task needs to be executed, choose the number of hours from the **Hours** drop-down list. 4 Click **Submit**.

Name	Description
Run Now	Runs the task.
View Details	Displays the history for the system task.

Managing Schedules for Rack Servers

Overview of Managing Schedules

Defining a schedule allows you to defer certain tasks to occur at a different time. For example, tasks such as firmware updates, server discovery, or applying policies and profiles, can be scheduled to run at a pre-defined time or at a pre-defined interval. You could schedule tasks during off-peak hours where the workloads on servers are low.

Creating Schedules

Perform this procedure when you want to create a new schedule.

Procedure

Step 1 On the menu bar, choose **Policies** > **Physical Infrastructure Policies** > **Rack Server**.

Step 2 Choose the **Schedules** tab.

Step 3 Click **Add**.

Step 4 In the **Create Schedule** dialog box, complete the following:

Field	Description
Schedule Name field	Enter a name for the schedule task.
Enable Schedule check box	Check this check box to enable a schedule. By enabling or disabling a schedule (using the **Enable** or **Disable** options), you can enable or disable the tasks associated with the schedule from running.

Field	Description
Scheduler Type radio button	Select a one time schedule or recurring schedule frequency.
	If you choose a **One Time** schedule, select the date, time, and AM or PM radio buttons.
	Note The schedule time is based on the time on the appliance. However, the time zone is of the local client browser.
	If you choose a **Recurring** schedule, select the days (0 to 30 days), hours and minutes from the drop-down lists.

Step 5   Click **Submit**.

Step 6   In the **Submit Result** dialog box, click **OK**.

What to Do Next

- You can select an existing schedule and modify, delete, or view scheduled tasks. **View Scheduled Tasks** displays a report which allows you to view the status of the upgrade firmware, auto discovery, apply policy and profile tasks you associated with the schedule while Upgrading Firmware, Auto Discovering Servers.

- You can select one or more tasks associated with the schedule and disassociate them from the schedule using the **Remove Scheduled Tasks** option.