

## **Managing Rack Servers**

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## **Viewing Rack-Mount Server Details**

Perform this procedure when you want to view the details for a rack mount server, such as memory, CPUs, and PSUs used in the server.



Note

You can also select **Rack Groups** and perform the procedure to view the rack-mount server details.

### Before you begin

Ensure that the server is already added as a Rack Account under a Rack Group.

### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- **Step 2** Expand **Rack Groups** and select the rack group that contains the server.
- **Step 3** On the selected rack group page, click **Rack Servers**.
- Step 4 Double-click the server in the list to view the details, or select the server in the list and click the down arrow on the far right, then choose **View Details**.

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

The following details are available for a rack-mount server:

Tab	Description	
Summary	An overview of the rack account.	
CPUs	The details of the CPU used in the server.	
Memory	The details of the memory used in the server.	
PSUs	The details of the power supply unit used in the server.	
	Note Not applicable for Cisco UCS S3260 dense storage rack server.	
PCI Adapters	The details of the PCI adapters used in the server.	
VIC Adapters	The details of the VIC adapters used in the server.	
	Select any of the VIC Adapters listed and click <b>View Details</b> to view information such as <b>External Ethernet Interfaces</b> and <b>VM FEXs</b> .	
Network Adapters	The details of the network adapters used in the server.	
	Select any of the Network Adapters listed and click <b>View Details</b> to view information on <b>External Ethernet Interfaces</b> .	
Storage Adapters	The details of the storage adapters used in the server.	
	Select any of the Storage Adapters listed and click <b>View Details</b> to view information such as <b>Controller Info</b> and <b>Physical Drives</b> , and <b>Virtual Drives</b> . See, Viewing Smart Information for SSD.	
FlexFlash Adapters	The details of the FlexFlash adapters used in the server.	
	Select any of the FlexFlash Adapters listed and click <b>View Details</b> to view information such as <b>Controller Info</b> and <b>Physical Drives</b> .	
	If you are upgrading Cisco IMC Supervisor from a previous version, you must the inventory by going to <b>Systems</b> > <b>Physical Accounts</b> > <b>Rack Accounts</b> > <b>Inventory</b> , or wait for the periodic inventory to run, for the FlexFlash details to appear in the report.	
	Note Not applicable for Cisco UCS S3260 dense storage rack server.	

Tab	Description		
Communication	The information on the protocol, such as HTTP, HTTPS, SSH, IPMI Over LAN, NTP, and SNMP.		
Remote Presence	The details of vKVM, Serial Over LAN, and vMedia.		
Faults	The details of the faults logged in the server.		
Users	The details about users under <b>Default Group</b> . You can also view the strong password policy and password expiration details that you have set while creating a user policy and password expiration policy respectively. See, User Policy and Password Expiration Policy.		
	Note Not applicable for Cisco UCS S3260 dense storage rack server.		
Cisco IMC Log	The details of the Cisco IMC logs for the server.		
	Note Not applicable for Cisco UCS S3260 dense storage rack server.		
System Event Log	The details of the server logs.		
	Note Not applicable for Cisco UCS S3260 dense storage rack server.		
TPM	Information on the TPM inventory.		
BIOS	Details about the BIOS settings and Boot Order for the server.		
	Select the server and click on <b>View BIOS Settings</b> , <b>View Boot Settings</b> , or <b>View Boot Order</b> .		
Fault History	Historical information on the faults that occurred on the server.		
Tech Support	Details about the tech-support log files, such as the file name, destination type, and status of the upload are displayed in the <b>Tech Support</b> table.		
	An option to export the tech-support log files to a remote server or on the local Cisco IMC Supervisor appliance is available. For more information about exporting, see Exporting Technical Support Data to a Remote Server, on page 13.		
	Note Not applicable for Cisco UCS S3260 dense storage rack server.		
Host Images	Details of an image such as name, size, MD5 checksum, last modified time, and the image is mapped are displayed. You can select an image and click <b>Map Image Unmap Image</b> , and <b>Delete Image</b> to perform the various actions.		
	<b>Note</b> Host image mapping is applicable only for E-Series servers.		
Associated Hardware Profiles	Details of policies that are associated to a hardware profile.		

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

## **Viewing Fault Details for a Rack Mount Server**

Perform this procedure when you want to view the fault details of a rack mount server such as the reason for the issue and the recommended steps to resolve the issue.

### Before you begin

The server is already added as a Rack Account under a Rack Group.

#### **Procedure**

- **Step 1** Choose **Systems** > **Inventory** and **Fault Status**.
- **Step 2** On the Rack Groups page, click **Faults**.
- Step 3 Double-click the server from the list to view the details. You can also click the server from the list, 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 4 Click Close.

# **Powering On and Off a Rack Mount Server**

Perform this procedure when you want to power on or power off a rack mount server.

#### Before you begin

The server is already added as a Rack Account under a Rack Group.

## **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 Select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

Step 3 On the selected rack group page, click Rack Servers.

**Note** You can also select any sub groups under **Rack Groups**.

**Step 4** From the list of servers, select the server you want to power on/off.

**Note** You can also select multiple rack servers.

Step 5 Click Power ON. From the More Actions drop-down list, choose Power OFF.

**Note** You can also right-click and choose the options.

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

**Note** A message that the ser

A message that the servers were powered on or powered off is displayed. The message will also indicate if any servers could not be powered on or off. Refresh the table after a while so that the current power states are reflected.

## **Tagging Assets for a Rack Mount Server**

Asset tag is a user-defined tag for the server. You can use the **Asset Tag** option to add the Cisco IMC server property through Cisco IMC Supervisor

You can tag assets for both rack servers and for chassis. For tagging assets for chassis, see Tagging Assets for Cisco UCS S3260 Rack Server. Perform this procedure when you want to tag an asset.

## Before you begin

The server is already added as a Rack Account under a Rack Group.

#### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Rack Groups page, click Rack Servers.

Note You can also select any sub group under **Rack Groups** in the **Inventory and Fault Status** pane.

- **Step 3** Select the server you want to tag.
- **Step 4** From the **More Actions** drop-down list, choose **Asset Tag**.

**Note** You can also right-click and choose the option.

Step 5 Click Submit.

**Note** Asset Tag option is available only from Cisco IMC release 3.0.(1c) onwards. For lower version platforms, the Asset Tag column in the Rack Groups page displays a blank entry.

## **Shutting Down a Rack Mount Server**

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



You can also select multiple rack servers.

### Before you begin

The server is already added as a Rack Account under a Rack Group.

#### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

**Step 3** On the selected rack group page, click **Rack Servers**.

**Note** You can also select any sub groups under **Rack Groups**.

- **Step 4** Select the server from the list.
- **Step 5** From the **More Actions** drop-down list, choose **Shut Down**.

**Note** You can also right-click and choose the option.

Step 6 Click OK.

# **Performing a Hard Reset on Rack Mount Server**

Perform this procedure to reset the server.



Note

You can also select multiple rack servers.

## Before you begin

The server is already added as a Rack Account under a Rack Group.

### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

**Step 3** On the selected rack group page, click **Rack Servers**.

**Note** You can also select any sub groups under **Rack Groups**.

**Step 4** Select the server from the list.

**Step 5** From the **More Actions** drop-down list, choose **Hard Reset**.

**Note** You can also right-click and choose the option.

Step 6 Click OK.

## Performing a Power Cycle on a Rack Mount Server

Perform this procedure when you want to power off and on a rack mount server in one cycle.



Note

You can also select multiple rack servers.

### Before you begin

The server is already added as a Rack Account under a Rack Group.

### **Procedure**

- **Step 1** Choose **Systems** > **Inventory** and **Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

Step 3 On the selected rack group page, click Rack Servers.

Note You can also select any sub groups under Rack Groups.

- **Step 4** Select the server from the list.
- **Step 5** From the **More Actions** drop-down list, choose **Power Cycle**.

**Note** You can also right-click and choose the option.

Step 6 Click OK.

## Launching KVM Console for a Rack-Mount Server

You can launch the KVM console for C-Series M4 or C-Series M5 servers running on firmware versions 4.1(1c) or later using explicit authentication.



The launch of KVM console for servers running firmware versions below 4.1(1c) is deprecated and will not work as expected.

### Before you begin

- Ensure that the server is already added as a Rack Account under a Rack Group.
- Ensure that you have a valid Java Runtime Environment (JRE) installed for the KVM feature to work.

#### **Procedure**

- **Step 1** Choose **Systems** > **Inventory** and **Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

Step 3 On the selected rack group page, click Rack Servers.

**Note** You can also select any sub groups under **Rack Groups**.

- **Step 4** Select the server from the list.
- **Step 5** From the **More Actions** drop-down list, choose **KVM Console**.

Note

- You can also right-click and choose the option.
- You can select a maximum of 5 servers to launch KVM console.

### Step 6 Click Submit.

For the Rack servers running on firmware 4.1(1c) or above, a new browser window with a link to launch KVM login page will be displayed after certificate verification. On clicking the link, the KVM login page of the corresponding Rack server is displayed.

## **Launching GUI for a Rack Mount Server**

Perform this procedure to launch the Cisco IMC Supervisor GUI from a separate browser.

## Before you begin

The server is already added as a Rack Account under a Rack Group.

#### **Procedure**

- Step 1 Choose Systems > Inventory and Fault Status.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

Step 3 On the selected rack group page, click Rack Servers.

**Note** You can also select any sub groups under **Rack Groups**.

- **Step 4** Select the server from the list.
- **Step 5** From the **More Actions** drop-down list, choose **Launch GUI**.

**Note** You can also right-click and choose the option.

Step 6 Cllick Submit.

The launch GUI option will open the Login page of the corresponding Rack server in aseparate window. This is displayed only when the **HTTP Enabled** and **Redirect HTTP to HTTPS Enabled** checkboxes are enabled while configuring the communication services in the Rack server. For more information, see Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide.

## **Setting Locator LED for a Rack Mount Server**

A server locator LED helps you to identify a specific server among many servers in a data center. Perform this procedure to set the LED to on or off.



Note

You can also select multiple rack servers.

## Before you begin

The server is already added as a Rack Account under a Rack Group.

#### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

**Step 3** On the selected rack group page, click **Rack Servers**.

**Note** You can also select any sub groups under **Rack Groups**.

- **Step 4** Select the server from the list.
- **Step 5** From the **More Actions** drop-down list, choose **Locator LED**.

**Note** You can also right-click and choose the option.

- **Step 6** From the **Turn** drop-down list, choose **ON/OFF**.
- Step 7 Click Submit.

## **Setting Label for a Rack Mount Server**

Setting label names to servers help you in classifying servers. This makes it easier to find, view, and compare the servers that you require. Perform this procedure to set the labels for a rack mount server.

## Before you begin

The server is already added as a Rack Account under a Rack Group.

#### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

Step 3 On the selected rack group page, click Rack Servers.

**Note** You can also select any sub groups under **Rack Groups**.

- **Step 4** Select the server from the list.
- **Step 5** From the **More Actions** drop-down list, choose **Set Label**.

**Note** You can also right-click and choose the option.

- **Step 6** Enter a new label.
- Step 7 Click Submit.

## **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	Choose Systems > Inventory and Fault Status.			
Step 2	In the Inventory and Fault Status pane, expand <b>Rack Groups</b> and select the Rack Group which contains the server.			
Step 3	Click Rack Servers or Chassis.			
	Note	You can select any sub groups under <b>Rack Groups</b> .		
Step 4	From the More Actions drop-down list, choose Manage Tags.			
	Note	You can also right-click and choose the option.		
Step 5 Step 6	Click + to add an entry to the <b>Manage Tags</b> table.  In the <b>Add Entry to Tag</b> screen, complete the following:			

Field	De	escription
Tag Name		elect the tag name from the drop-down list and click <b>ubmit</b> or create a new tag.
	a.	Click the + icon.
	b.	In the Create Tag window, do the following:
		<b>1.</b> In the <b>Name</b> field, enter a descriptive name for the tag.
		<b>2.</b> In the <b>Description</b> field, enter a description of the tag.
		<b>3.</b> In the <b>Type</b> field, select String or Integer from the drop-down list.
		<b>4.</b> In the <b>Possible Tag Values</b> field, enter a possible value for the tag.
		5. Click Next.
		<b>6.</b> Click the + icon to add a new category.
	c.	In the <b>Add Entry to Entities</b> window, from the <b>Category</b> drop-down list, choose the category. It can be one of the following:
		• <b>Physical_Compute</b> category creates tag entities for a Rack Server.
		• <b>Administration</b> 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 S3260 Rack Server.
	d.	Check the Rack Servers or Chassis check box.
	e.	Click Submit.
		Note The tags are displayed under the respective category according to the set taggable entities.
	f.	In the confirmation dialog box, click <b>OK</b> .
Tag Value	Se	elect the tag value from the drop-down list.

- Step 7 Click Submit.
- Step 8 Select a tag in the Manage Tags screen and click Edit to edit a tag.
- **Step 9** Choose the Tag Name and Tag Value to modify the tags.

## Step 10 Click Submit

## **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** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

**Step 3** On the selected rack group page, click **Rack Servers**.

**Note** You can also select any sub groups under **Rack Groups**.

**Step 4** From the **More Actions** drop-down list, choose **Add Tags**.

**Note** You can also right-click and choose the option.

- **Step 5** Choose the **Tag Name** from the drop-down list.
- **Step 6** Choose the **Tag Value** from the drop-down list.
- Step 7 Click on the plus icon to create a new tag. Refer Managing Tags for a Rack-Mount Server, on page 10 to create tags.

**Note** You can also clone, edit, delete, and view tag details.

# **Exporting Technical Support Data to a Remote Server**

Perform this procedure to upload the technical support files to a specified server.



The exporting technical support option does not support Cisco UCS S3260 Dense Storage Rack Server.

### **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

**Step 3** On the selected rack group page, click **Rack Servers**.

**Note** You can also select any sub groups under **Rack Groups**.

- Step 4 Double-click the rack-mount server in the list to view its details, or click the rack-mount server from the list and click the down arrow on the far right, then choose **View Details**.
- Step 5 Click Tech Support.
- Step 6 Click Create Tech Support.
- **Step 7** On the **Create Tech Support** screen, complete the following fields:

Name	Description
<b>Destination Type</b> drop-down list	You can export the file to a remote server or to a local Cisco IMC Supervisor appliance. Choose either <b>REMOTE</b> or <b>LOCAL</b> .
Network Type drop-down list	The network type. This can be one of the following:
	• SCP
	• SFTP
	· FTP
	• TFTP
Server IP/Hostname field	The IP address or hostname of the server on which the support data file should be stored. Depending on the setting in the <b>Network Type</b> drop-down list, the name of this field will vary.
Path and Filename field	The path and filename that must be used when exporting the file to the remote server.
Username	The username the system should use to log in to the remote server. This field does not apply if the network type is TFTP.
Password	The password for the remote server username. This field does not apply if the network type is TFTP.

## Step 8 Click Submit.

- You can only select and download the tech-support files you have created choosing **LOCAL** as the **Destination Type**.
- You can select the existing technical support files and download only those files that are stored within the Cisco IMC Supervisor appliance. Select a specific file and click **Download**. This creates a <hostname>\_<timestamp>. tar.gz file.

## **Clearing SEL**

The System Event Log (SEL) records most server-related events that can be used for troubleshooting issues. Perform this procedure to clear the SEL logs.

## **Procedure**

- **Step 1** Choose **Systems** > **Inventory and Fault Status**.
- Step 2 On the Inventory and Fault Status pane, select Rack Groups.

**Note** You can also expand **Rack Groups** and select the rack group which contains the server.

**Step 3** On the selected rack group page, click **Rack Servers**.

**Note** You can also select any sub groups under **Rack Groups**.

- Step 4 Double-click the rack-mount server from the list to view its details or click the rack-mount server from the list and click the down arrow on the far right and choose **View Details**.
- Step 5 Click System Event Log.
- Step 6 Click Clear IMC SEL Log.
- Step 7 (Optional) On the Clear IMC SEL Logs screen, check the Delete historical logs from Cisco IMC Supervisor check box.

Selecting this option clears the system event logs from the Cisco IMC Supervisor GUI.

Step 8 Click Submit.

# **Managing System Tasks**

The **System Tasks** tab displays all the system tasks that are currently available in Cisco IMC Supervisor. However, this list of system tasks is linked to the type of accounts that you have created in Cisco IMC Supervisor. For example, if you have logged in for the first time, then only a set of general system-related tasks are visible on this page. As and when you add accounts, such as rack accounts, or Cisco IMC Supervisor accounts, system tasks related to these accounts are populated on this page.

Expand the tasks on the left pane, select the individual tasks such as purging, rack server, and user and group tasks and manage them.

In circumstances when there are multiple processes or tasks running on the appliance, you can choose to disable a system task. If you do so, then until such time that you manually enable it, the system task will not run. This will affect the data that is populated in other reports. For example, if you disable an inventory collection system task, then reports that require this data may not display accurate data. In this case, you will have to manually run an inventory collection process, or enable the system task.



Note

It is not recommended to edit any of the system tasks.

### **Procedure**

- **Step 1** Choose **Administration** > **System**.
- Step 2 Click System Tasks.
- **Step 3** Select a task from the list and click **Manage Task**.
- **Step 4** On the **Manage Task** screen, complete the following:

Field	Description		
Task Execution drop-down list	(Optional) Choose enable or disable.		
System Task Policy drop-down list	Choose one of the following options:		
	• default-system-task-policy		
	• local-run-policy		
Schedule Type drop-down list	Specify the schedule type for the system task. It can be one of the following options:		
	• <b>Fixed Delay</b> —Implies the time period between the completion of one task execution and the initiation of the next task execution.		
	• <b>Fixed Rate</b> —Implies the time period between successive tasks executions. If there is a delay in the execution of one task or if one task takes longer to execute than its scheduled time, it results in delays in subsequent task executions. Systems tasks that are configured with this setting will not run concurrently. These tasks will not run concurrently.		
Hours drop-down list	Choose the hourly frequency to run the task.		
	If you chose <b>Fixed Delay</b> as the schedule type, then this number indicates the time gap, in hours, between the completion of one task exection and the initiation of the next task execution.		
	If you chose <b>Fixed Rate</b> , then this number indicates time period, in hours, between successive task executions.		
Minutes drop-down list	Choose the frequency, in minutes, to run the task.		

Field	Description			
Enable Custom Frequency check box	Check this check box to enable a custom frequency for the system task.			
Recurrence Type drop-down list	Specify the recurrence schedule for the system task.It can be one of the following:			
	• No End			
	• Only Once			
Start Time field	Specify the date and time for the recurrence schedule.			
Frequency drop-down list	Choose a frequency for the system task. It can be one of the following:			
	• Hourly			
	• Daily			
	• Weekly			
	• Monthly			
	Note This field is displayed only when you select No End in the Recurrence Type drop-down list.			
Frequency Interval drop-down list	Choose a frequency interval from the drop-down list. The values in this list vary depending on the frequency you have specified.			

Step 5 Click Submit.

## **Running a Task**

Each task is schedule to run at a user-defined time interval. However, you can override this and run it manually. After running a task manually, the task is then scheduled to run again as defined in the frequency column. Perform this procedure when you want to run a system task manually.

### **Procedure**

- $\textbf{Step 1} \qquad \quad \textbf{Choose Administration} > \textbf{System}.$
- Step 2 Click System Tasks.
- **Step 3** Choose a system task from the table.
- Step 4 Click Run Now.
- Step 5 Click Submit.

Running a Task