



# Managing Rack Servers

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This chapter contains the following topics:

- [Viewing Rack-Mount Server Details, page 1](#)
- [Viewing Fault Details for a Rack Mount Server, page 4](#)
- [Powering On and Off a Rack Mount Server, page 4](#)
- [Shutting Down a Rack Mount Server, page 5](#)
- [Performing a Hard Reset on Rack Mount Server, page 5](#)
- [Performing a Power Cycle on a Rack Mount Server, page 6](#)
- [Launching KVM Console for a Rack-Mount Server, page 7](#)
- [Launching GUI for a Rack Mount Server, page 7](#)
- [Setting Locator LED for a Rack Mount Server, page 8](#)
- [Setting Label for a Rack Mount Server, page 9](#)
- [Managing Tags for a Rack-Mount Server, page 9](#)
- [Adding Tags for a Rack-Mount Server, page 11](#)
- [Exporting Technical Support Data to a Remote Server, page 11](#)
- [Clearing SEL, page 13](#)
- [Managing System Tasks, page 13](#)

## 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**

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You can also click **Rack Groups** in the left pane and perform the procedure to view the rack-mount server details.

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## Before You Begin

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

## Procedure

- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, expand **Rack Groups** and select the rack group that contains the server.
- Step 3** In the right pane, select the **Rack Servers** tab.
- Step 4** Double-click the server in the list to view the details, or click 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
<b>Summary</b>	An overview of the rack account.
<b>CPUs</b>	The details of the CPU used in the server.
<b>Memory</b>	The details of the memory used in the server.
<b>PSUs</b>	The details of the power supply unit used in the server. <b>Note</b> Not applicable for Cisco UCS C3260 dense storage rack server.
<b>PCI Adapters</b>	The details of the PCI adapters used in the server.
<b>VIC Adapters</b>	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> .
<b>Network Adapters</b>	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> .
<b>Storage Adapters</b>	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> .
<b>FlexFlash Adapters</b>	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 run the inventory by going to <b>Systems &gt; Physical Accounts &gt; Rack Accounts &gt; Inventory</b> , or wait for the periodic inventory to run, for the FlexFlash details to appear in the report. <b>Note</b> Not applicable for Cisco UCS C3260 dense storage rack server.

Tab	Description
<b>Communication</b>	The information on the protocol, such as HTTP, HTTPS, SSH, IPMI Over LAN, NTP, and SNMP.
<b>Remote Presence</b>	The details of vKVM, Serial Over LAN, and vMedia.
<b>Faults</b>	The details of the faults logged in the server.
<b>Users</b>	<p>The details about users.</p> <p><b>Note</b> Not applicable for Cisco UCS C3260 dense storage rack server.</p>
<b>Cisco IMC Log</b>	<p>The details of the Cisco IMC logs for the server.</p> <p><b>Note</b> Not applicable for Cisco UCS C3260 dense storage rack server.</p>
<b>System Event Log</b>	<p>The details of the server logs.</p> <p><b>Note</b> Not applicable for Cisco UCS C3260 dense storage rack server.</p>
<b>TPM</b>	Information on the TPM inventory.
<b>BIOS</b>	<p>Details about the BIOS settings and Boot Order for the server.</p> <p>Select the server and click on <b>View BIOS Settings</b>, <b>View Boot Settings</b>, or <b>View Boot Order</b>.</p>
<b>Fault History</b>	Historical information on the faults that occurred on the server.
<b>Tech Support</b>	<p>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.</p> <p>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 <a href="#">Exporting Technical Support Data to a Remote Server</a>, on page 11.</p> <p><b>Note</b> Not applicable for Cisco UCS C3260 dense storage rack server.</p>
<b>Associated Hardware Profiles</b>	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** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, select **Rack Groups**.
- 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 **Close** in the **Fault Details** window to go to the previous window.
- 

## 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** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, select **Rack Groups**.
- Note** You can also expand **Rack Groups** and select the rack group which contains the server.
- Step 3** In the right pane, select the **Rack Servers** tab.
- Note** You can also select any sub groups under **Rack Groups** in the left pane.

- 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** or **Power OFF** or right-click and choose the options.
- Note** You cannot see **Power ON** and **Power OFF** buttons till you select the server from the list.
- Step 6** In the confirmation dialog box, click **OK**.
- Note** 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.
- 

## Shutting Down a Rack Mount Server

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



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**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

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- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, select **Rack Groups**.
- Note** You can also expand **Rack Groups** and select the rack group which contains the server.
- Step 3** In the right pane, select the **Rack Servers** tab.
- Note** You can also select any sub groups under **Rack Groups** in the left pane.
- Step 4** Select the sever from the list.
- Step 5** Click **Shut Down** or right-click and choose the option.
- Note** You cannot see the **Shut Down** button till you select the server from the list. You can also click the down arrow on the far right and choose the option.
- Step 6** In the confirmation dialog box, click **OK**.
- 

## Performing a Hard Reset on Rack Mount Server

Perform this procedure to reset the server.



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

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**Before You Begin**

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

**Procedure**

- 
- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, select **Rack Groups**.  
**Note** You can also expand **Rack Groups** and select the rack group which contains the server.
- Step 3** In the right pane, select the **Rack Servers** tab.  
**Note** You can also select any sub groups under **Rack Groups** in the left pane.
- 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. You can also click the down arrow on the far right and choose the option.
- Step 6** In the confirmation dialog box, 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.




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

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**Before You Begin**

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

**Procedure**

- 
- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, select **Rack Groups**.  
**Note** You can also expand **Rack Groups** and select the rack group which contains the server.
- Step 3** In the right pane, select the **Rack Servers** tab.  
**Note** You can also select any sub groups under **Rack Groups** in the left pane.
- Step 4** Select the sever from the list.
- Step 5** Click **Power Cycle**.  
**Note** You cannot see **Power Cycle** button till you select the server from the list. You can also click the down arrow on the far right and choose the option.
- Step 6** In the confirmation dialog box, click **OK**.
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## Launching KVM Console for a Rack-Mount Server

Perform this procedure to download the *kvm.jnlp* file and open the KVM console.

### 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

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**Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.

**Step 2** In the left pane, select **Rack Groups**.

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

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

**Note** You can also select any sub groups under **Rack Groups** in the left pane.

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

**Step 5** Click **KVM Console**.

**Note** You cannot see **KVM Console** button until you select at least one server from the list. You can select a maximum of 5 servers to launch KVM console.

**Step 6** Click **Submit**.

Cisco IMC Supervisor downloads the *kvm.jnlp* files.

**Step 7** Double-click on the *kvm.jnlp* files in your downloads folder.

The KVM Console opens in a separate window.

**Note** The `launcher.jsp` file that opens in a separate window displays the list of servers you have selected. You can also view if the KVM consoles were launched successfully.

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## 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

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**Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.

**Step 2** In the left pane, select **Rack Groups**.

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

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

**Note** You can also select any sub groups under **Rack Groups** in the left pane.

**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.

## 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** From the menu bar, choose **Systems > Inventory and Fault Status**.

**Step 2** In the left pane, select **Rack Groups**.

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

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

**Note** You can also select any sub groups under **Rack Groups** in the left pane.

**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**.

## 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

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- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
  - Step 2** In the left pane, select **Rack Groups**.  
**Note** You can also expand **Rack Groups** and select the rack group which contains the server.
  - Step 3** In the right pane, select the **Rack Servers** tab.  
**Note** You can also select any sub groups under **Rack Groups** in the left pane.
  - Step 4** Select the sever 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**.
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## 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

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- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, expand **Rack Groups** and select the Rack Group which contains the server.
- Step 3** In the right pane, select the **Rack Servers** or **Chassis** tab.  
**Note** You can select any sub groups under **Rack Groups** in the left pane.
- Step 4** Click **Manage Tags**.

**Note** You cannot see **Manage Tags** button until you select the rack-mount server or UCS 3260 server from the list.

**Step 5** Click + to add an entry to the **Manage Tags** table.

**Step 6** In the **Add Entry to Tag** dialog box, complete the following:

Field	Description
<b>Tag Name</b>	<p>Select the tag name from the drop-down list and click <b>Submit</b> or create a new tag.</p> <ol style="list-style-type: none"> <li>1 Click the + icon.</li> <li>2 In the <b>Create Tag</b> window, do the following:               <ol style="list-style-type: none"> <li>a In the <b>Name</b> field, enter a descriptive name for the tag.</li> <li>b In the <b>Description</b> field, enter a description of the tag.</li> <li>c In the <b>Type</b> field, select String or Integer from the drop-down list.</li> <li>d In the <b>Possible Tag Values</b> field, enter a possible value for the tag.</li> <li>e Click <b>Next</b>.</li> <li>f Click the + icon to add a new category.</li> </ol> </li> <li>3 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:               <ul style="list-style-type: none"> <li>• <b>Physical_Compute</b> category creates tag entities for a Rack Server.</li> <li>• <b>Administration</b> category creates tag entities for users.</li> </ul> <p><b>Note</b> You can also add tags for a chassis. For more information about adding tags for a chassis, see <a href="#">Adding Tags for Cisco UCS C3260 Rack Server</a>.</p> </li> <li>4 Check the <b>Rack Servers</b> or <b>Chassis</b> check box.</li> <li>5 Click <b>Submit</b>.               <p><b>Note</b> The tags are displayed under the respective category according to the set taggable entities.</p> </li> <li>6 In the confirmation dialog box, click <b>OK</b>.</li> </ol>
<b>Tag Value</b>	Select the tag value from the drop-down list.

- Step 7** Click **Submit**.
  - Step 8** In the **Submit Result** dialog box, click **OK**.
  - Step 9** Select a tag in the **Manage Tags** dialog box and click on the Edit icon to edit a tag.
  - Step 10** Choose the Tag Name and Tag Value to modify the tags
  - Step 11** Click **Submit**
  - Step 12** In the **Submit Result** dialog box, click **OK**.
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## 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.



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

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### Procedure

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- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
  - Step 2** In the left pane, expand **Rack Groups** and select the Rack Group which contains the server.
  - Step 3** In the right pane, select the **Rack Servers** tab.
    - Note** You can also select any sub groups under **Rack Groups** in the left pane.
  - Step 4** Click **Add Tags**.
    - Note** You cannot see **Add Tags** button till you select the server from the list.
  - 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 9 to create tags.
    - Note** You can also clone, edit, delete, and view tag details.
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## Exporting Technical Support Data to a Remote Server

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



**Note** The exporting technical support option does not support Cisco UCS C3260 Dense Storage Rack Server from the **Rack Servers** tab.

## Procedure

- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
- Step 2** In the left pane, select **Rack Groups**.
- Step 3** In the right pane, select the **Rack Servers** tab.
- Step 4** Double-click the rack-mount server in the list to view its details, or click the rack-mount server in the list and click the down arrow on the far right, then choose **View Details**.
- Step 5** Click the **Tech Support** tab.
- Step 6** Click **Create Tech Support**.
- Step 7** In the **Create Tech Support** dialog box, 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> .
<b>Network Type</b> drop-down list	The network type. This can be one of the following: <ul style="list-style-type: none"> <li>• <b>SCP</b></li> <li>• <b>SFTP</b></li> <li>• <b>FTP</b></li> <li>• <b>TFTP</b></li> </ul>
<b>Server IP/Hostname</b> 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.
<b>Path and Filename</b> field	The path and filename that must be used when exporting the file to the remote server.
<b>Username</b>	The username the system should use to log in to the remote server. This field does not apply if the network type is TFTP.
<b>Password</b>	The password for the remote server username. This field does not apply if the network type is TFTP.

- Step 8** Click **Submit**.

- Note**
- 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.
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## 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

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- Step 1** From the menu bar, choose **Systems > Inventory and Fault Status**.
  - Step 2** In the left pane, select **Rack Groups**.
  - Step 3** In the right pane, select 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**.
  - Step 5** Click the **System Event Log** tab.
  - Step 6** Click **Clear IMC SEL Log**.
  - Step 7** (Optional) In the **Clear IMC SEL Logs** dialog box, 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**.
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## 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** From the menu bar, choose **Administration > System**.

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

**Step 3** Select a task from the list and click **Manage Task**.

**Step 4** In the **Manage Task** dialog box, 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: <ul style="list-style-type: none"> <li>• <b>default-system-task-policy</b></li> <li>• <b>local-run-policy</b></li> </ul>
Hours drop-down list	Choose the hourly frequency to run the task.

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

**Step 6** Click **OK**.

## 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

**Step 1** From the menu bar, choose **Administration > System**.

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

**Step 3** Choose a system task from the table.

**Step 4** Click **Run Now**.

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

**Step 6** Click **OK**.