# Managing Rack Servers

This chapter contains the following topics:



## Viewing Rack Mount Server Details

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

**Note** You can also perform this procedure by clicking **Rack Groups** in the left pane.

### 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, expand **Rack Groups** and select the rack group which contains the server.

**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**.

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

The following details are available for a rackmount 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. |
| **PCI Adapters** | The details of the PCI adapters used in the server. |
| **VIC Adapters** | The details of the VIC adapters used in the server.<br>Select any of the VIC Adapters listed and click **View Details** to view information such as **External Ethernet Interfaces**, **VM FEXs** and so on. |
| **Network Adapters** | The details of the network adapters used in the server.<br>Select any of the Network Adapters listed and click **View Details** to view information on **External Ethernet Interfaces**. |
| **Storage Adapters** | The details of the storage adapters used in the server.<br>Select any of the Storage Adapters listed and click **View Details** to view information such as **Controller Info**, **Physical Drives** and so on. |
| **FlexFlash Adapters** | The details of the FlexFlash adapters used in the server.<br>Select any of the FlexFlash Adapters listed and click **View Details** to view information such as **Controller Info**, **Physical Drives** and so on. If you are upgrading Cisco IMC Supervisor from a previous version, you must run the inventory by going to **Systems** > **Physical Accounts** > **Rack Accounts** > **Inventory** or wait for the periodic inventory to run for the FlexFlash details to appear in the report. |
| **Communication** | The information on the protocol such as HTTP, HTTPS, SSH, IPMI Over LAN, NTP, and SNMP. |

| Tab | Description |
|---|---|
| **Remote Presence** | The details of vKVM, Serial Over LAN, and vMedia. |
| **Faults** | The details of the faults logged in the server. |
| **Users** | The details of users. |
| **Cisco IMC Log** | The details of the Cisco IMC logs for the server. |
| **System Event Log** | the details of the server logs. |
| **TPM** | Information on the TPM inventory. |
| **BIOS** | Details about the BIOS settings and Boot Order for the server.<br>Select the server and click on **View BIOS Settings**, **View Boot Settings**, or **View Boot Order**. |
| **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, status of the upload and so on are displayed in the **Tech Support** table.<br>An option to export the tech-support log files to a remote server or on the Cisco IMC Supervisor appliance, in a local directory is available. For more information about exporting, see Exporting Technical Support Data to a Remote Server, on page 11. |
| **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** 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**.

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

**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.

**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**.

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

**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.

**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**.

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

**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**.

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

**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**.

# 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

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 **Rack Servers** tab.

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

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

**Note** You cannot see **KVM Console** button till you select the server from the list.

**Step 6** Click **Submit**.
Cisco IMC Supervisor downloads the *kvm.jnlp* file.

**Step 7** Double-click on the *kvm.jnlp* file in your downloads folder.
The KVM Console opens in a separate window.

If you do not have the required Java Runtime Environment (JRE) installed, click **More Info** in the dialog box and follow the instructions to download and install the JRE.

# 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** 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** 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**.

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

# 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** 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** 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**.

# 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** 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.

**Step 4** Click **Manage Tags**.

**Note** You cannot see **Manage Tags** button till you select the server from the list.

**Step 5** Click on the plus icon to add a new tag.

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

# 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** 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.

**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.

# Exporting Technical Support Data to a Remote Server

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

### 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 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 **Tech Support** tab.

**Step 6** Click **Upload Logs**.

**Step 7** In the **Upload Technical Logs** dialog box, complete the following fields:

| Name | Description |
|---|---|
| **Network Type** drop-down list | The network type. This can be one of the following:<br>• **TFTP**<br>• **FTP**<br>• **SFTP**<br>• **SCP** |
| **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 **Network Type** 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**.

**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.

# 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** 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**.

# 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:<br>• **default-system-task-policy**<br>• **local-run-policy** |
| **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**.