



# Monitoring and Reporting

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- [About Monitoring and Reporting, on page 1](#)
- [Monitoring a Rack Server and Its Components, on page 2](#)
- [Viewing Reports About a Rack Server, on page 2](#)
- [Clearing SEL, on page 3](#)
- [Uploading Technical Support Data to a Server, on page 3](#)
- [Configuring Email Alert Rules, on page 4](#)
- [Server Diagnostics, on page 5](#)
- [Configuring SFTP User Password, on page 7](#)

## About Monitoring and Reporting

Cisco UCS Director displays all managed components in each rack-mount server that has been added to a rack group. These components can be hardware or software.

### Information You Can View

You can view and monitor details about each component, including the following:

- License status
- Summary of the current status

### Components You Can Monitor

You can monitor specific components or view reports for each of the components, including the following:

- vNICs and vHBAs
- Adapters, such as network and PCI
- Hardware components, such as CPUs, interface cards, and memory

### Email Alerts

You can configure rules in Cisco UCS Director so that an email message is triggered when faults of a certain severity occur on rack servers or rack server groups. When fault conditions specified in the rule occur, an

email message is triggered and sent to the recipients you have specified. For information on configuring these email alert rules, see [Configuring Email Alert Rules, on page 4](#).

## Monitoring a Rack Server and Its Components

### Procedure

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- Step 1** Choose **Physical > Compute**.
  - Step 2** On the **Compute** page, choose the pod.
  - Step 3** On the **Compute** page, choose the account under **Pods**.
  - Step 4** Click **Rack Servers**.
  - Step 5** Choose the row of the server that you want to monitor.
  - Step 6** Click **View Details**.  
By default, the **Summary** tab is displayed.
  - Step 7** Click on one of the tabs to view the status of the licenses, the server, or a specific component in the server.  
Additional information may be available if you click **View Details** on one or more of the individual components.
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## Viewing Reports About a Rack Server

### Procedure

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- Step 1** Choose **Physical > Compute**.
- Step 2** On the **Compute** page, choose the pod.
- Step 3** On the **Compute** page, choose the account under **Pods**.
- Step 4** Click **Rack Servers**.
- Step 5** Choose the row of the server for which you want to view reports.
- Step 6** In the right pane, click **Summary** to view a wide array of tabular, graphical, and map reports that provide a view of trending data for the account.
- Step 7** For some reports, you can click the icons on the table bar to customize the table columns, filter the results, or export a report of the current table contents.

For more information, see the [Cisco UCS Director Administration Guide](#).

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## Clearing SEL

### Procedure

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- Step 1** Choose **Physical > Compute**.
- Step 2** On the **Compute** page, choose the pod.
- Step 3** On the **Compute** page, choose the account under **Pods**.
- Step 4** Click **Rack Servers**.
- Step 5** Double-click the sever from the list to view the details or click the sever from the list and from the **More Actions** drop-down menu, choose **View Details**.
- Step 6** Click **System Event Log**.
- Step 7** Click **Clear IMC SEL Log**.
- Step 8** (Optional) In the **Clear IMC SEL Logs** screen, check **Delete historical logs from Cisco UCS Director**.  
Selecting this option clears the system event logs from the Cisco UCS Director GUI.
- Step 9** Click **Submit**.
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## Uploading Technical Support Data to a Server

### Procedure

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- Step 1** Choose **Physical > Compute**.
- Step 2** On the **Compute** page, choose the pod.
- Step 3** On the **Compute** page, choose the account under **Pods**.
- Step 4** Click **Rack Servers**.
- Step 5** Double-click the sever from the list to view the details or click the sever from the list and from the **More Actions** drop-down menu, choose **View Details**.
- Step 6** Click **Tech Support**.
- Step 7** Click **Create Tech Support**.
- Step 8** In the **Create Tech Support** screen, complete the required fields, including the following:

Name	Description
<b>Destination Type</b> drop-down list	Select a destination for the support data. It can be one of the following: <ul style="list-style-type: none"> <li>• Remote—Implies an external server</li> <li>• Local—Implies the current system.</li> </ul>

Name	Description
<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>TFTP</b></li> <li>• <b>FTP</b></li> <li>• <b>SFTP</b></li> <li>• <b>SCP</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 uploading 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 9** Click **Submit**.

## Configuring Email Alert Rules

### Procedure

- Step 1** Choose **Administration > System**.
- Step 2** On the **System** page, click **Email Alert Rules**.
- Step 3** Click **Add**.
- Step 4** In the **Add Email Alert Rule** screen, complete the required fields, including the following:

Field	Description
<b>Name</b> field	A unique name for the email alert rule.
<b>Alert Scope</b> drop-down list	Choose if the alert rule applies to a system, server groups or servers.
<b>Server Groups</b> field	Click <b>Select</b> to check the check boxes of the server groups that email alerts should be sent for.  This field is displayed only when <b>Server Group</b> is selected in the <b>Alert Scope</b> drop-down list.

Field	Description
<b>Servers</b> field	Click <b>Select</b> to check the check boxes of the servers that email alerts should be sent for.  This field is displayed only when <b>Server</b> is selected in the <b>Alert Scope</b> drop-down list.
<b>Email Addresses</b> field	The email address of the recipients of the email.  You can enter multiple email addresses, separated by commas.
<b>Severity</b> field	Click <b>Select</b> to check the check boxes of the severity levels for which the email alert must be triggered.
<b>Enable Alert</b> check box	Check this check box to enable the alert rule immediately.
<b>Send alert for all faults every 24 hours</b> check box	Check this check box to send email alerts once every 24 hours. This email alert will contain all active and open faults based on the configured email alert rule.

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

## Server Diagnostics

### Overview of Server Diagnostics

Server diagnostics is available through UCS Server Configuration Utility (UCS-SCU). You can use diagnostics tools to diagnose hardware problems with your Cisco servers and run tests on various server components to find out hardware issues along with analysis of the test results in a tabular format.

You must download, configure, and save the UCS-SCU image to a remote location.



**Note** Running a diagnostic test using the UCS-SCU image results in the server being temporarily unavailable as the server reboots with the UCS-SCU image.

When you run diagnostics on any rack server, it reboots with the UCS-SCU image hosted on the location you have configured. The diagnostics tabular report displays the status of diagnostics for each server on which you have run diagnostics. Also, details of the server, the date and time the report was generated, diagnostics status and so on are displayed. You can delete or download diagnostic reports for a single or for multiple servers.



**Note** You must configure the SFTP user password to run server diagnostics. To configure the SFTP user password, see [Configuring SFTP User Password, on page 7](#).

## Configuring Server Configuration Utility Image Location

Perform this procedure to configure and save the location of the UCS-SCU image.

### Procedure

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **SCU Images Profiles**.
- Step 3** Click **Add**.
- Step 4** In the **Configure SCU Image Location** screen, complete the required fields, including the following:

Field	Description
<b>Profile Name</b> field	Enter a name for the SCU image profile.
<b>ISO Share Type</b> drop-down list	Choose either Network File System (NFS), Common Internet File System (CIFS), World Wide Web (WWW) or Local share type.
<b>ISO Share IP</b> field	Enter the ISO share IP address.
<b>ISO Share Path</b> field	Enter the ISO share path.
<b>Username</b> field	Enter your ISO share login user name.
<b>Password</b> field	Enter your ISO share login password.

- Step 5** Click **Save**.
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## Running Diagnostics

Perform this procedure when you want to run diagnostics for servers or server groups. Running diagnostics on servers will result in the selected servers being restarted.

### Procedure

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Server Diagnostics**.
- Step 3** Click **Run Diagnostics**.
- Step 4** In the **Run Diagnostics** screen, complete the required fields, including the following:

Field	Description
<b>Select Profile</b> drop-down list	Choose a diagnostics profile from the list.
<b>Server(s)</b> drop-down list	Click <b>Select</b> to check the check boxes of the server groups for which you want to run the diagnostics.

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

**Note** You can perform the following actions on a server or multiple servers:

- Select a server and click **View Report** to view reports.
- Select a server or multiple servers and click **Delete Report** to delete reports.
- Select a server or multiple servers and click **Download Report** to download reports. When you select multiple servers to download diagnostics reports, a zip file containing all the reports are downloaded.

You cannot choose a server which is already running a diagnostics operation. Wait for the diagnostics operation to complete before triggering another diagnostics on this server.

Diagnostics may take around 40 minutes to complete. This varies depending on the number of components present in the server.

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## Configuring SFTP User Password

An SFTP user is used by server diagnostics and tech support upload operations for transferring files to the Cisco UCS Director appliance using SFTP. An SFTP user account cannot be used to login to the Cisco UCS Director UI or the shelladmin.

Complete this procedure to configure a password for an SFTP user.

### Procedure

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- Step 1** Choose **Administration > Users and Groups**.
- Step 2** On the **Users and Groups** page, click **SFTP User Configuration**.
- Step 3** Enter the password in the **Password** field.
- Step 4** Click **Submit**.
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