Running Server Diagnostics

This chapter contains the following topics:

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.

Cisco IMC Supervisor gives you the ability to have multiple diagnostic images set up across different geographic locations where the servers are present. Diagnostics run much faster as this facilitates a low latency network between a server and the image within that location.

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 scpuser password to run server diagnostics. To configure the scpuser password, see Configuring a SCP User.

Configuring Server Configuration Utility Image Location

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

Procedure

Step 1   From the menu bar, choose **Systems** > **Server Diagnostics**.

Step 2   Click **SCU Image Profiles**.

Step 3   In the **Configure SCU Image Location** dialog box complete the following:

Field	Description
Profile Name field	A descriptive name for the profile.
ISO Share Type drop-down list	Choose either Network File System (NFS), Common Internet File System (CIFS), World Wide Web (WWW) or LOCAL share types.
If you select **LOCAL**	
SCU Image field	Browse, select, and upload a SCU image file.
If you select **NFS**, **CIFS**, or **WWW (HTTP/HTTPS)**	
ISO Share IP field	Enter the ISO share IP address.
ISO Share Path field	Enter the ISO share path.
Username field	Enter your ISO share login user name.
Password field	Enter your ISO share login password.

Step 4   Click **Save**.

Step 5   In the **Submit Result** dialog box, click **OK**.

Running Diagnostics

Perform this procedure when you want to run diagnostics for servers or server groups.

Procedure

Step 1	From the menu bar, choose **Systems** > **Server Diagnostics**.
Step 2	Click **Run Diagnostics**.
Step 3	In the **Run Diagnostics** dialog box, complete the following:

Field	Description
Select Profile drop-down list	Select an existing profile from the drop-down list.
Choose drop-down list	Choose whether you want to run the diagnostics on a server or server group from the drop-down list.
Server(s) or **Server Group(s)** drop-down list	Choose the server(s) or server group(s) for which you want to run the diagnostics.

Step 4	Click **Select** and select the server(s) or server group(s) from the **Select** dialog-box.
Step 5	Click **Select**. The selected server(s) or server group(s) are displayed next to the **Server(s)** or **Server Group(s)** field.
Step 6	Click **Submit**.
Step 7	In the **Submit Result** dialog box, click **OK**.

      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.