Updating the Firmware on a Cisco UCS C-Series Server Using the HUU

Updating the Firmware

This section describes procedure to upgrade or downgrade the C-Series and S-Series servers firmware and various options available for upgrade or downgrade.

Note   After updating the Cisco IMC firmware, you must check the compatibility matrix to verify if the drivers are compliant with the updated version of Cisco IMC. If the driver versions are non-compliant, you must update the driver versions to match the Cisco IMC version.

The *Hardware and Software Interoperability Matrix* is available here:

http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.html

Downloading the ISO File for Update

Step 1   Navigate to the following URL: Software Download

You must be logged in to continue.

Step 2   Search for—**Unified Computing**.

Step 3   In the center column, click **Cisco UCS C-Series Rack-Mount Standalone Server Software**.

Step 4   Choose the name of your model of server in the right column.

Step 5   Click **Unified Computing System (UCS) Server Firmware**.

Step 6   From the left pane, choose the release number

Step 7   Click the Download icon to download the `ucs-server platform-huu-version_number.iso` file.

Step 8   Click **Accept License Agreement** to start the download.

What to do next

Prepare the ISO file.

Preparing the ISO File for Firmware Update

Before you begin

Ensure that the ISO file is downloaded and saved.

If you want to prepare the ISO for a local update, perform these steps before starting the procedure:

1. Burn the ISO image onto a writable disk (CD/DVD) or copy it on a USB drive.

2. Connect a VGA monitor and USB keyboard to the server.

3. Insert the disk into the USB DVD drive of the server or the USB drive into the USB port.

Step 1   Use a browser to connect to the software on the server that you are upgrading.

Step 2   In the address field of the browser, enter the IP address for that server, and then enter your username and password.

Step 3   Click **Launch KVM Console** from the toolbar.

Ensure that your browser allows pop up windows. KVM console opens in a different window.

Step 4   In the KVM Console, click **Virtual Media**.

Note   Virtual Media is not available for read-only users.

You can use one of the following options to create a virtual media:

Name	Description
Create Image	Allows you to create an ISO image. Drag and drop files or folders in the Create Image dialog box; these files or folders are converted to an ISO image. You can use the **Download ISO Image** button to save the ISO image to your local machine. **Note** Create Image option is not available in Safari browser.
vKVM-Mapped vDVD	Opens the **Map Virtual Media - CD/DVD** dialog box, which allows you to select an ISO image from your local computer and map the drive.

Name	Description
vKVM-Mapped vHDD	Opens the **Map Virtual Media - Removable Disk** dialog box, which allows you to select an ISO image from your local computer and map the drive.
vKVM-Mapped vFDD	Opens the **Map Virtual Media - Floppy Disk** dialog box, which allows you to select an ISO image from your local computer and map the drive.
CIMC-Mapped vDVD	Opens the **Map Virtual Media - CD/DVD** dialog box, which allows you to select an ISO image from your local computer and map the drive. It also allows you to save, edit, and delete mappings. Refer .
CIMC-Mapped vHDD	Opens the **Map Virtual Media - CD/DVD** dialog box, which allows you to select an ISO image from your local computer and map the drive. It also allows you to save, edit, and delete mappings. Refer .

Table 1: Add New Mapping Dialog Box

Name	Description
Name field	User defined name of the virtual media.
NFS button	Network File System based mapping.
CIFS button	Common Internet File System based mapping.
HTTP/S	HTTP-based or HTTPS-based mapping.
File Location field	Location of the .iso file in the following format: • *<IP Address or DNS Name>*[:*Port*]/*.iso file path*
Username field	**Note** Available only for **CIFS** and **HTTP/S** based mappings. The username, if any.
Password field	**Note** Available only for **CIFS** and **HTTP/S** based mappings. The password for the selected username, if any.

Name	Description

Mount Options field	**Note** Available only for **CIFS** and **NFS** based mappings.
	
	The selected mount options.
	  • NFS—For NFS, either leave the field blank or enter one or more of the following:
	      • wsize=VALUE
	      • vers=VALUE
	      • timeo=VALUE
	      • retrans=VALUE
	      • retry=VALUE
	      • rsize=VALUE
	
	  • For CIFS, either leave the field blank or enter one or more of the following:
	      • nounix
	      • noserverino
	      • sec=VALUE
	      • vers=VALUE

Auto-remap check box	Cisco IMC automatically remaps the device when the host system ejects the media.
Stored vMedia button	Opens an additional area on the right to select stored vMedia from the respective list.
Save button	Saves the vMedia.
Map Drive button	Saves and maps the mounted vMedia.
CD/DVD panel	Provides a list of stored vMedia. If you are mapping using **CIMC-Mapped vDVD** option, then you can also edit or delete any vMedia from this list.
Removable Disk panel	Provides a list of stored vMedia. If you are mapping using **CIMC-Mapped vHDD** option, then you can also edit or delete any vMedia from this list.

What to do next

Update and activate the firmware.

Updating and/or Activating the Firmware

Before you begin

Ensure that the ISO file is ready.

Step 1	Boot the server and press **F6** when prompted to open the **Boot Menu** screen.
Step 2	In the **Boot Menu** screen, choose the prepared ISO:

       • For a local update, choose the physical or externally connected CD/DVD device and then press **Enter**.

       • For remote update choose one of following where you have mounted the ISO image:

              • Cisco vKVM-Mappred vDVD

              • UEFI: CIMC-Mapped vDVD

              •

Step 3	After the HUU boots, **Cisco End User License Agreement** (EULA) appears, read the EULA and click **Accept** to continue.
Step 4	You can now update the firmware for components or drives using the following options:

       • To update and/or activate all components and drives with single click, perform Step 5.

       • To update and/or activate specific components and drives, perform Step 6.

       Note   Ensure that **Advanced Mode** is enabled.

Step 5	Click **Update & Activate**.

In the **Update-activate All** dialog box, check:

       • **Exclude Persistent Memory** to exclude the persistent memory from update.

       • **Exclude Storage Drives** to exclude the drives from update.

       • **Power cycle to activate** to automatically reboot the server after update.

HUU updates all the applicable firmware and reboots the server (if **Power cycle to activate** option was checked) or waits for you to reboot server. Updated firmware are activated on next reboot.

Step 6	To update the firmware for specific components and drives, use the checkbox against each component or drive to select it.

In **Update-activate Selected Components** dialog box, check:

       • **Exclude Persistent Memory** to exclude the persistent memory from update (if persistent memory are selected).

       • **Exclude Storage Drives** to exclude the drives from update (if storage drives are selected).

       • **Power cycle to activate** to automatically reboot the server after update.

HUU updates all the applicable firmware and reboots the server (if **Power cycle to activate** option was checked) or waits for you to reboot server. Updated firmware are activated on next reboot.

Alternatively, after selecting the desired components and drives, you can select **Update** or **Activate** from **More Actions** drop-down list.

Viewing Last Updated Firmware Information

Step 1   Boot the server and press **F6** when prompted to open the **Boot Menu** screen.

Step 2   In the **Boot Menu** screen, choose the prepared ISO:

  • For a local update, choose the physical or externally connected CD/DVD device and then press **Enter**.

  • For remote update choose one of following where you have mounted the ISO image:

    • Cisco vKVM-Mappred vDVD

    • UEFI: CIMC-Mapped vDVD

  •

Step 3   After the HUU boots, **Cisco End User License Agreement** (EULA) appears, read the EULA and click **Accept** to continue.

Step 4   You can now update the firmware for components or drives using the following options:

Step 5   From the home page, click the **Verify Last Update** tab.

You can view the firmware update history.