



CHAPTER 1

Installing the CIMC Firmware Update Utility

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Overview

The CIMC Firmware Update Utility is used to update firmware versions for host(x86)-based systems for standalone servers. Use this utility to update firmware versions of systems that are not on the network.

Prerequisites

To use this utility:

- The rack-mounted servers must be compliant with the Intelligent Platform Management Interface Specification (IPMI) v2.0.
- The servers must be running the Linux operating system, or be booted to the EFI shell.
- If you are going to use this utility on the Linux server, then you must be logged in as the **root user** or the **superuser**.

Installing the Utility on Linux Servers

The CIMC Firmware Update Utility is a binary file and does not require any other files for installation. You only need to install the binary file.

To install the utility on Linux servers, follow these steps:

Step 1 Download the software container from the following location to a USB flash drive.

www.cisco.com > Products and Services > Unified Computing > All Products > Cisco UCS C-Series Rack-Mount Servers > Download Software.

On this page, select the appropriate server and select **Unified Computing System (UCS) Software Container for Rack Mount Servers**.

Installing the Utility using the EFI Shell

Follow the on-screen instructions till you download the Firmware Update Utility and image file to the USB flash drive. The utility and the image file is available together in a zipped file.

- Step 2** Unzip the container file. A folder with the most current version of the firmware is created. Within this folder, you will see the following folders:
- bios
 - cimc
- Step 3** Navigate to the cimc folder. You will see two zipped files. Unzip the file named as fwup-1.x.x.zip. The following folders are created:
- linux
 - uefi
- Step 4** Navigate to the **linux** folder, and unzip the fwup-v1_x.tgz file. The utility file is extracted to the folder.
- Step 5** If the server is not already running the Linux operating system, reboot the server to the Linux operating system.
- Step 6** Login to the server as the **root user** or the **superuser**.
- Step 7** Use the **service ipmi status** command to verify that the ipmi service is running. If this service is not running, enter the following command:
- ```
service ipmi start
```
- Step 8** Connect the USB flash drive to the server and mount the flash drive using the standard Linux **mount** command.
- Step 9** Use the **fdisk-l** command to view the list of connected SCSI devices. The USB flash drive is listed as a connected device.
- Step 10** Navigate to the utility in the flash drive.
- Step 11** If you do not want to run the utility file from the USB flash drive, you can copy the file to a folder on the server, and run the utility from this folder.
- Step 12** Use the **fwup** command to run the utility. After installing the utility, you can use it to update the firmware version of the CIMC. For more information, see [Chapter 2, “Using the Firmware Update Utility.”](#)



- Note** To remove the CIMC Firmware Update Utility from the Linux server, use the standard Linux **rm** command to delete the file from the folder.

## Installing the Utility using the EFI Shell

To install the utility on servers using the EFI shell, follow these steps:

- Step 1** Download the software container from the following location to a USB flash drive.

[www.cisco.com](http://www.cisco.com) > Products and Services > Unified Computing > All Products > Cisco UCS C-Series Rack-Mount Servers > Download Software.

On this page, select the appropriate server and select **Unified Computing System (UCS) Software Container for Rack Mount Servers**.

Follow the on-screen instructions till you download the Firmware Update Utility and image file to the USB flash drive. The utility and the image file is available together in a zipped file.

**Step 2** Unzip the container file. A folder with the most current version of the firmware is created. Within this folder, you will see the following folders:

- bios
- cimc

**Step 3** Navigate to the cimc folder. You will see two zipped files. Unzip the file named as fwup-1.x.x.zip.

The following folders are created:

- linux
- uefi

The utility file is available in the uefi folder.

**Step 4** Restart the server to the EFI shell.

- a. Reboot the server.
- b. Watch the console screen and when prompted, press **F6** to enter the **Boot Options** menu.
- c. On the **Boot Options** menu, select **EFI Shell** and press **Enter**.

**Step 5** Connect the USB flash drive to the server.

**Step 6** Use the **shell > map -r** command to map the storage device in the system.

**Step 7** Use the **shell > fs0: or fs1:** command to change the shell to the mapped device file system.

**Step 8** Run the utility on the prompt from the **fs0** directory.

**fs0:> fwup.efi <options>**

After installing the utility, you can use it to update the firmware version of the CIMC. For more information, see [Chapter 2, “Using the Firmware Update Utility.”](#)



**Note**

To remove the utility using the EFI shell, use the **del** command.

**■ Installing the Utility using the EFI Shell**