

## CHAPTER 2

# Launching UCS Server Configuration Utility

UCS Server Configuration Utility (SCU) is a bootable image based on a 32-bit Linux kernel and can be used to perform operations such as BIOS setup, configure RAID logical volume, install operating systems, and perform diagnostics on Cisco rack servers. It is designed to run on one server at a time.



### Note

You can launch UCS-SCU from the F6 boot option on UCS C220 M3 and C240 M3 servers.

This chapter contains the following sections:

- [Obtaining ISO Image From cisco.com, page 2-1](#)
- [Booting UCS-SCU, page 2-2](#)
- [Exiting UCS-SCU, page 2-4](#)

## Obtaining ISO Image From cisco.com

To find the ISO file download for your server online, follow these steps:

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- Step 1** Go to <http://www.cisco.com/cisco/software/navigator.html>
  - Step 2** Click **Unified Computing** in the middle column.
  - Step 3** Click **Cisco UCS C-Series Rack-Mount Standalone Server Software** in the right-hand column.
  - Step 4** Click the name of your server model in the right-hand column.
  - Step 5** In the Select a Software Type list, select **Unified Computing System (UCS) Server Configuration Utility**.  
The Download Software page appears listing the release version and the UCS-SCU image.
  - Step 6** Click **Download Now** to download the ISO file.
  - Step 7** Verify the information on the next page, then click **Proceed With Download**. If prompted, use your cisco.com credentials to log in.
  - Step 8** Continue through the subsequent screens to accept the license agreement and browse to a location where you want to save the utilities zip file.
  - Step 9** Extract the contents of the SCU zip file and note the location to which the SCU ISO file is saved.
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## Booting UCS-SCU

You can launch the UCS-SCU application using one of the following options:

- [Using Cisco Flexible Flash, page 2-2](#)
- [Using Virtual Media, page 2-3](#)
- [Using Physical Media, page 2-4](#)

## Using Cisco Flexible Flash

This section includes the following sections:

- [About Cisco Flexible Flash, page 2-2](#)
- [Booting from Cisco Flexible Flash, page 2-2](#)

### About Cisco Flexible Flash

Some C-Series Rack-Mount Servers support an internal Secure Digital (SD) memory card for storage of server software tools and utilities. The SD card is hosted by the Cisco Flexible Flash storage adapter.

The SD storage is available to CIMC as four virtual USB drives. Three are preloaded with Cisco software and the fourth can hold a user-installed hypervisor or other content. The four virtual drives are as follows:

- Cisco UCS Server Configuration Utility (bootable)
- User-installed (may be bootable)
- Cisco drivers (not bootable)
- Cisco Host Upgrade Utility (bootable)

The Cisco Flexible Flash card is built into the rack server and allows the utility software to be pre-loaded at the factory during the manufacturing process.

Alternatively, the utility software can be made available online along with the rest of the firmware updates. These updates can then be downloaded to the storage on the Cisco Flexible Flash card through the UCS-SCU GUI.

### Booting from Cisco Flexible Flash

To load the UCS-SCU from the Cisco Flexible Flash card, follow these steps:

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- Step 1** During startup, press **F6** to enter the boot selection menu.  
The boot selection menu appears.
- Step 2** Use the arrow keys to select SCU, and then press **Enter**.
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#### Note

The **Drivers** option in the **F6** boot selection screen is not a bootable option. If you select this option accidentally, you should restart your server as a workaround and select a different option. The **HUU** and **SCU** options are bootable. Use either of these options to boot the application with the images you

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downloaded and flashed to the SD card of your system. See [“Updating Images to Cisco Flexible Flash” section on page 3-8](#) for information on downloading the latest images of SCU and HUU to the SD card on your server.

## Using Virtual Media

You can use KVM Console to boot the UCS-SCU application with virtual media.

This section includes the following sections:

- [About KVM Console, page 2-3](#)
- [Entering Virtual KVM Console, page 2-3](#)
- [Booting From Virtual KVM Console, page 2-3](#)

### About KVM Console

KVM Console is an interface accessible from CIMC that emulates a direct keyboard, video, and mouse (KVM) connection to the server. KVM Console allows you to connect to the server from a remote location.

**Note**

KVM Console requires Java Runtime Environment (JRE) version 1.5.0 or higher.

KVM Console has the following tabs:

- KVM—This tab displays the UCS-SCU application when the application is booted.
- Virtual Media—This tab allows you to map the following to a virtual drive:
  - CD/DVD on your computer or your network
  - Disk image files (ISO or IMG files) on your computer or your network
  - USB flash drive on your computer

### Entering Virtual KVM Console

To enter the virtual KVM Console, follow these steps:

- |               |                                   |
|---------------|-----------------------------------|
| <b>Step 1</b> | Log in to CIMC.                   |
| <b>Step 2</b> | Click <b>Launch KVM Console</b> . |
- Virtual KVM Console displays the server console.

### Booting From Virtual KVM Console

**Before You Begin**

- Download the UCS-SCU ISO image file from [cisco.com](http://cisco.com). For information on how to download the image, go to the [“Obtaining ISO Image From cisco.com” section on page 2-1](#).

To boot the UCS-SCU application using virtual KVM Console, follow these steps:

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- Step 1** Log in to CIMC from your desktop.
- Step 2** Click **Launch KVM Console** to launch KVM Console.
- Step 3** Click the **Virtual Media** tab.  
The Virtual Media tab opens.
- Step 4** Click **Add Image**.
- Step 5** Navigate to and select the ISO file and click **Open** to mount the image.
- Step 6** In the Client View section, select the check box in the Mapped column for the ISO file that you added and then wait for the mapping to complete.  
KVM Console displays the progress in the Details section.
- Step 7** Reboot the server by clicking **Power Cycle Server** in the CIMC.
- Step 8** Press **F6** when the server starts to select a boot device.  
The boot selection menu appears.
- Step 9** Use the arrow keys to select Cisco Virtual CD/DVD and then press **Enter**.  
The server boots using the UCS-SCU image and launches the application in the KVM tab.
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## Using Physical Media

### Before You Begin

- Download the UCS-SCU ISO image file from [cisco.com](http://cisco.com). For information on how to download the image, go to the [“Obtaining ISO Image From cisco.com”](#) section on page 2-1.
- Create an .iso CD using an application that burns .iso CDs.

To boot the application on your server using a physical CD/DVD, follow these steps:

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- Step 1** Connect the USB DVD drive to the server through the USB port.
- Step 2** Insert the physical media on to your DVD drive.
- Step 3** Restart the server and press **F6** to enter the boot selection menu. Select **CDROM drive** as the boot device.  
The server boots using the UCS-SCU image and starts the application.
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## Exiting UCS-SCU

To exit the UCS-SCU application, follow these steps:

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- Step 1** Remove the .iso disk from the disk drive.
- Step 2** Click **Reboot** and then click **Yes** to confirm reboot of your server.
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