

# **Cisco Modeling Labs ISO Installation**

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# **Cisco Modeling Labs ISO Image Installation**

This chapter details the ISO image installation procedure for a bare metal environment.

A bare metal implementation is a computer system in which the software for a virtual machine is installed directly on hardware rather than as a virtual machine on top of a hypervisor system, such as VMware ESXi, within the host operating system. The term bare metal refers to a hard disk, the usual medium on which a computer's operating system is installed.

The following bare metal implementations are described:

- Installing the Cisco Modeling Labs ISO Image on a Cisco UCS B-Series Server, on page 2
- Installing the Cisco Modeling Labs ISO Image on a Cisco UCS C-Series Server, on page 10



These hardware configurations are for example purposes only; you can deploy the server implementation that best suits your requirements.

#### Prerequisites

Ensure that the following requirements are met:

- Know the location of the Cisco Modeling Labs ISO image file required for installation.
- A minimum of 30 GB of disk space is available.
- Have three network interface ports available, in addition to the Cisco UCS Manager or Cisco Integrated Management Controller management port.

## Installing the Cisco Modeling Labs ISO Image on a Cisco UCS B-Series Server

The following sections describe how to install the Cisco Modeling Labs ISO image on a Cisco UCS B-Series Server.

### Logging In to the Cisco UCS Manager Interface

The default HTTPS web link for the Cisco UCS Manager interface is https://UCSManager\_IP, where UCSManager\_IP represents the IP address assigned to Cisco UCS Manager.

- Step 1 Open a browser window and enter the IP address of the Cisco UCS Manager interface in the format https://UCSManager\_IP
- **Step 2** If a Security Alert dialog box appears, click Yes to accept the security certificate and continue.
- Step 3In the Cisco UCS Manager launch page, click Launch UCS Manager.Depending on the web browser you use to log in, you may be prompted to download or save the .JNLP file.

#### Figure 1: Cisco UCS Manager Login Window



- **Step 4** If the Cisco UCS Manager displays a pre-login banner, review the message and click **OK** to close the dialog box.
- **Step 5** If a **Security** dialog box appears, perform the following tasks:
  - a) (Optional) Check the check box to accept all content from Cisco.
  - b) Click **Yes** to accept the certificate and continue.
- **Step 6** In the Login dialog box, perform the following tasks:

- a) Enter your username and password.
- b) If your Cisco UCS implementation includes multiple domains, choose the appropriate domain from the **Domain** drop-down list.
- c) Click Login.

## Mapping the Cisco Modeling Labs ISO Image on a Cisco UCS B-Series Server



This procedure requires you to have downloaded the Cisco Modeling Labs ISO image file and to ensure it is accessible from the computer that you are using to log in to the Cisco UCS Manager interface.

When the Cisco UCS Manager launches, the pane on the left provides an equipment inventory of the Cisco UCS.

#### Figure 2: Cisco UCS Equipment Inventory



You can see a physical view of the server under the Physical Display pane.



Figure 3: Cisco UCS Physical Display

To map the Cisco Modeling Labs ISO image, complete the following steps:

Step 1 Under the General tab, click KVM Console to launch the KVM Console and connect to the KVM server.



#### Figure 4: KVM Console

**Step 2** In the KVM Console, click the **Virtual Media** tab. (In the KVM Console, the ISO image is mapped to the server so that at boot time, the server boots from the ISO image.)

#### Step 3 Click Add Image.

#### Figure 5: Virtual Media Tab

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CML-1 / (Chassis	- 1 Server - 2) - KVM Console(I	Launched By: admin)						
e Help								
Boot Server 🔩 Sh	nutdown Server 🧕 Reset							
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	D: - CD/DVD							EXIL
1000								Create Image
							(	Add Image
							(	Remove Image
							1	Details #
Target Drive	Mapped To	Read Bytes Write	Bytes	Duration	1			
Virtual CD/DVD	Not mapped	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10						USB Reset
Removable Disk	Not mapped							
Floppy	Not mapped							
	1				1	1		

**Step 4** From the dialog box that is displayed, navigate to the location of the Cisco Modeling Labs ISO image, click the corresponding image and click **Open**.

#### Figure 6: ISO File Location

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ecent Rems	Cml.ve	]			
Desktop					

**Step 5** The path to the ISO image is visible in the **Client View** of the Virtual Media tab. Check the **Mapped** check box to allow the image file to be accessed by the server. Uncheck the check box to disconnect the server from the drive or image file.

#### Figure 7: ISO Image Mapped to Server

		10010 10	1 10 1				
CML-1/(Chase	sis - 1 Server - 2	) - KVM Console(Lau	inched By: adi	min)			
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soot berver 🛁	Shutdown Serv	er 🐸 Reset					
1 Console Serv	er						 
'KVM 💣 Virtu	ual Media						
Client View							
Mapped	Read Only	Drive				 	Exit
	M	D: - CD/DVD			1100		
<b>V</b>		C:\Users\Administ	trator\Desktop	CML_IMAGES			Create Image
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							Remove Image
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Details Target Drive Virtual CD/DVD	Mapped 1	o  R	Read Bytes	Write Bytes	Duration 00:00:02		USB Reset
Details Target Drive Virtual CD/DVD Removable Disk	Mapped 1	'o R iers\Administrator\ 91 ed	Read Bytes 18304	Write Bytes 0	Duration 00:00:02		USB Reset
Details Target Drive Virtual CD/DVD Removable Disk Floppy	Mapped 1	io R Iers(Administrator) 91 ed	lead Bytes 8304	Write Bytes	Duration 00:00:02		USB Reset
Details Target Drive Virtual CD/DVD Removable Disk Floppy	Mapped 1 @ C:(Ur Not mapp Not mapp	io R ers)Administrator\ 90 ed	lead Bytes 6304	Write Bytes	Duration 00:00:02		 USB Reset
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Detais Target Drive Virtual CD/DVD Removable Disk Floppy	Mapped 1	o R err/Administrator( 91 od ed	tead Bytes 8304	Wrke Bytes 0	Duration 00:00:02	 	 USB Reset

Step 6Click the KVM tab. The No Signal window is displayed.<br/>The No Signal window indicates that the server is not powered on.

#### Figure 8: No Signal Window

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📤 CML-1 / (Chassis - 1 Server - 2) - KVM Console(Launched By: admin)		
ile View Macros Tools Help		
😃 Boot Server 🛁 Shutdown Server 🧕 Reset		
KVM Console Server		
🖆 KVM 🤮 Virtual Media		
		E
	No Signal	
*		P.
6 Connected to IP: 172.23.81.81	Syste	m Time: 2014-09-11T21:12

Click **Boot Server** in the icon bar. The server boots up momentarily and the Cisco menu is displayed. There are three options available:

- **<F2>**—Enter the setup menu.
- <F6>—Boot menu

• <F12>—Network boot

#### Figure 9: Cisco Setup Menu



Step 7 Press <F6> to access the Boot menu. The server boots from the virtual machine and the VIRL Installer window appears.Step 8 There are four options available:

- Live—Boots VIRL for changes before install.
- Install—Starts the VIRL installer directly.
- Memtest—Runs a memory test.

• Hd—Boots the first hard drive.

#### Figure 10: VIRL Installer Window



Choose the second option **Install** using the [tab] key. The installation process starts and installs the Ubuntu (12.04.3 LTS) operating system and Cisco Modeling Labs.

#### What to Do Next

Installing the Cisco Modeling Labs ISO Image, on page 21

## Installing the Cisco Modeling Labs ISO Image on a Cisco UCS C-Series Server

The following sections describe how to install the Cisco Modeling Labs ISO image on a Cisco UCS C-Series Server.

## Logging In to the Cisco Integrated Management Controller Interface

The default HTTPS web link for CIMC is https://ip-address.

**Step 1** Open a browser and enter the IP address of the CIMC interface in the format https://ip-address.

- **Step 2** If prompted, click **OK** to open Java viewer.jnlp.
- **Step 3** If a security dialog box is displayed, perform the following tasks:
  - a) (Optional) Check the check box to accept all content from Cisco.

- b) Click Yes to accept the certificate and continue.
- c) Confirm any additional security certificate exceptions.
- **Step 4** In the CIMC login window, enter the username and password for the CIMC interface.
  - Tip The default credential is admin and password. If you changed the password during server setup, use the password that you configured.

Figure 11: Cisco Integrated Management Controller Login Window

000		Cisco Integrated Management Controller Login	2
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🗰 iiii Apple	e iCloud F	Facebook Twitter Wikipedia Yahoo! Apple Disney ESPN Yahoo! News T Popular T	+
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	CISCO	Case-on-integrated wahagement controller	
		Version: 1.0(3) Password:	
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			and the second sec
			ΣO.
	@2008-2013, 0	Clico Systems, Inc. Al rights reserved.	6
10070			e.

Step 5 Click Log In.

## Mapping the Cisco Modeling Labs ISO Image on a Cisco UCS C-Series Server

Note

This procedure requires you to have downloaded the Cisco Modeling Labs ISO image file and to ensure it is accessible from the computer that you are using to log in to the Cisco Integrated Management Controller (CIMC) interface.

To map the Cisco Modeling Labs ISO image, complete the following steps:

Step 1Under the General tab, click KVM Console to launch the KVM Console and connect to the KVM server.TipYou can also click the keyboard icon in the icon bar at the top of the console to launch the KVM console.

#### Figure 12: KVM Console

000			Cisco integrated management controller webbi	
	+ # https @ 10.195.89.44	/index.html		C Reader 0
C III Apple iCloud Fac	cebook Twitter Wikipedia Yahoo	of Apple Disney ESPN Y	'aboo! News ▼ Popular ▼	F
cisco Inte	egrated Managemer	nt Controller	CINC Hostname: C236-FCH13726V1ME Logged in st: admin@10.60.107.27	Los Ov
Overall Server Status		0		
Moderate Fault	Server Summary			
Comme Designed and	Actions	Server Properties		
Autor Aumin Stores	se l	Product Name:	UCS C220 M3L	
Summary	Power On Server	Serial Number:	FCH1726VIME	
Inventory	Power Off Server	PID:	UCSC-C220-M3L	
Sensors	Shut Down Server	UUID:	87400152-0993-4617-990F-F864C467D663	
Remote Presence	Power Cycle Server	BLOS Version:	C220M3.1.5.3b.0 (Byild Date: 08/20/2013)	
8105	Mard Breet Secure	Occurrent		
Power Policies		Description:		
rance and soys	I ANNI LAUNCH KVM Console	Server Status	]	
	Turn Un Locator LED	Power State:	0 on	
		Overall Server Status:	Anderate Fault	
		Temperature:	Good	
		Power Supplies:	▼ Feut	
		Fans:	Good	
		Locator LED:	0 on	
		Overall Storage Status:	Good	
		Cisco Integrated Manager	ment Controller (CIMC) Information	
		Masterney	C320-87417764148	
		ID Address	10.105.80.44	
		MAC Address	dr.00-87-87-87-87	
	and the second se	Economic Materian	15(2)	
		Current Time (UTC):	xxx(cy Wed Sen 10.02:40:02.2014	
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- **Step 2** If a security dialog box is displayed, perform the following tasks:
  - a) (Optional) Check the check box to accept all content from Cisco.
  - b) Click **Yes** to accept the certificate and continue.
- **Step 3** At the Cisco KVM Virtual Console confirmation box, perform the following tasks:
  - a) (Optional) Check the check box to accept all content from Cisco.
  - b) Click **Run**.

- c) Confirm any additional security certificate exceptions.
- **Step 4** In the KVM Console, click the **Virtual Media** tab. (In the KVM Console, the ISO image is mapped to the server so that at boot time, the server boots from the ISO image.)
- Step 5 Click Add Image.

#### Figure 13: Virtual Media Tab

MIL-TA (CURSER	- 1 Server - 2) - KVM Consc	ole(Launched By: admin)	
Help			
oot Server 🔳 S	ihutdown Server 🧕 Reset		
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Mapped	Read Only Drive		Exit
	🖾 🖉 D: - CD/D/	VD .	
			Create Image
			Add Image
			Remove Image
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Netails Target Drive Virtual CD/DVD	Mapped To Not mapped	Read Bytes Write Bytes Duration	
Petais Target Drive Virtual CD/DVD Removable Disk	Mapped To Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset
betais Target Drive Initual CD/DVD Removable Disk	Mapped To Not mapped Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset
betais Target Drive Initual CD/DVD Removable Disk Floppy	Mapped To Not mapped Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset
betails Target Drive Artual CD/DVD Removable Disk Hoppy	Mapped To Not mapped Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset
betails Target Drive Intual CD/DVD Removable Disk Roppy	Mapped To Not mapped Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset
vetais Target Drive Initual CD/DVD Removable Disk Roppy	Mapped To Not mapped Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset
Vetals Target Drive Trusi CO(DVD Removable Disk Roppy	Mapped To Not mapped Not mapped Not mapped	Read Bytes Write Bytes Duration	USB Reset

**Step 6** From the dialog box that is displayed, navigate to the location of the Cisco Modeling Labs ISO image, click the corresponding image and click **Open**.

#### Figure 14: ISO File Location

Look in:	CML_IMA	GE5	<ul> <li>Ø</li> </ul>	°
Recent Rems	C cml.ver	]		
Desktop				
y Documents				
Computer				
100	File name:			Open
	and the second second second second			

**Step 7** The path to the ISO image is visible in the **Client View**. Check the **Mapped** check box to allow the image file to be accessed by the server. Uncheck the check box to disconnect the server from the drive or image file.

### Figure 15: ISO Image Mapped to Server

00				172.23.81.1	.13		-	and the second se
CML-1/(Chassis	s - 1 Server - 2) - KVM Console(L	aunched By: a	dmin)					
e Help								
Boot Server 🛁 S	ihutdown Server 🧕 Reset							
M Console Server	a							
S KVM 💣 Virtual	l Media							
Client View								
Mapped	Read Only Drive							Exit
	🖾 🙆 D: - CD/DVD							Create Image
	🛛 🧟 C:\Users\Admir	histrator\Deskto	p\CML_IMAGES					Create Image
								Add Image
							[	Remove Image
							1	Detais ±
Details							]	
Target Drive	Mapped To	Read Bytes	Write Bytes	Duration	1			
Virtual CD/DVD	C:\Users\Administrator\	98304	0	00:00:02				USB Reset
Removable Disk	Not mapped							
Floppy	Not mapped							

Step 8Click the KVM tab. The No Signal window is displayed.The No Signal window indicates that the server is not powered on.

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Figure 16: No Signal Window

000	172.23.8	1.113	
📥 CML-1 / (Chassis - 1 Server - 2) - KVM Consol	e(Launched By: admin)		- • •
File View Macros Tools Help			
💐 Boot Server 🚽 Shutdown Server 🧕 Reset			
KVM Console Server			
🖆 KVM 📑 Virtual Media			
		No Signal	
<u></u>		1	•
Connected to IP: 172.23.81.81			System Time: 2014-09-11T21:12

Click **Boot Server** in the icon bar. The server boots up momentarily and the Cisco menu is displayed. There are five options available:

- <**F2>**—Setup
- <F6>—Boot Menu
- < F7>—Diagnostics
- <F8>—CIMC Config

• <F12>—Network Boot



cisco
Press <f2> Setup, <f6> Boot Menu, <f7> Diagnostics, <f8> CIMC Config, <f12> Netw ork Boot</f12></f8></f7></f6></f2>
Bios Version : C220M3.1.5.1g.0.031520130940 Platform ID : C220M3
CIMC IP Address : 10.0.0.3 CIMC MAC Address : F8:72:EA:A4:7D:20
Processor(s) Intel(R) Xeon(R) CPU E5–2690 0 @ 2.90GHz Total Memory = 32 GB Effective Memory = 32 GB Memory Operating Speed 1600 Mhz
Entering CIMC Configuration Utility

**Step 9** Press **<F8>** to access the CIMC Config menu.

Figure 18: CIMC Configuration Utility

NTC mode		NTC redundancu
Dedicated:	[x]	None: [X]
Shared LOM:		Active-standby:[]
Cisco Card:		Active-active: []
Shared LOM Ext:	[]	
IPV4 (Basic)		Factory Defaults
DHCP enabled:	[]	CIMC Factory Default:[]
CIMC IP:	10.0.0.3	Default User (Basic)
Subnetmask:	255.255.255.0	Default password:
Gateway:	10.0.0.1	Reenter password:
VLAN (Advanced)		Port Profile
VLAN enabled:	[]	Reset: []
VLAN ID:		
Priority:		
	a a a a a a a a a a a a a a a a a a a	
	Poloot itomo	««««««««»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»
<ul><li><uozuuwn arrow=""></uozuuwn></li></ul>	Select items	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>

Set the following parameters:

Under NIC mode, enable Dedicated. Under IPV4 (Basic), provide values for your network for CIMC IP, Subnetmask, and Gateway. Under NIC Redundancy, enable None.

**Step 10** When completed, select **<ESC>** to exit the utility and return to the Cisco setup menu.

#### Figure 19: Cisco Setup Menu



**Step 11** Press **<F6>** to access the Boot Menu. Click the applicable boot device.

Figure 20: Boot Device Details

Please select boot device:
(Bus 82 Dev 00)PCI RAID Adapter Cisco vKVM-Mapped vHDD1.22 Cisco CIMC-Mapped vHDD1.22 UEFI: Built-in EFI Shell IBA GE Slot 0100 v1398 IBA GE Slot 0101 v1398 Cisco vKVM-Mapped vDVD1.22 Cisco CIMC-Mapped vDVD1.22 Cisco vKVM-Mapped vFDD1.22 Enter Setup
↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults

#### **Step 12** Reboot the server using the CTRL-ALT-DEL macro as shown.

#### Figure 21: Reboot the Server



**Step 13** On the **Power cycle the server?** confirmation dialog box, click **OK**.

#### Figure 22: Power Cycle the Server

And Add and the					
🗲 🗇 📾 https://10.0.3/	index.html 🔎 👻 Certif	icat 🖒 📠 Cisco Integ	grated Ma ×	and the second s	<b>↑</b> ★♀
X O Share Browser WebEx	•				
cisco Integra	ated Managemen	t Controller		CIMC Hostname: Logged in as:	ucs-c220-m3 admin@10.0.0.10 Los Out
Cisco Overall Server Status Ciscure Fault Server Admin Storage Sumary Unvertory Sensors Render Preserce BIOS Power Policies Faults and Logs	C C C C C C C C C C C C C C C C C C C	C Server Proparties Product Hame: Senal Number POU: UUD: DOS Variabies DOS Variabies Dower Status Power Statu	UCS C220 H3S FCH22231980 UCSC-C220-H3S F225683E-DCBF-4701-A680-FD70820AAD3F Faver cycle the serve? Faver cycle the serve? C CM C CM C CM C CM C CM C CM C CM C C		Log Od
					Save Changes Reset Values

The server boots from the virtual machine and the VIRL Installer window appears.

- **Step 14** There are four options available:
  - Live—Boots VIRL for changes before install.
  - Install—Starts the VIRL installer directly.
  - Memtest—Runs a memory test.

• Hd—Boots the first hard drive.

#### Figure 23: VIRL Installer Window



Select the **Install** option using the [tab] key. The installation process starts and installs the Ubuntu (12.04.3 LTS) operating system and Cisco Modeling Labs.

#### What to Do Next

Installing the Cisco Modeling Labs ISO Image, on page 21

# **Installing the Cisco Modeling Labs ISO Image**

To install the Cisco Modeling Labs ISO image, complete the following steps:

**Step 1** In the Welcome window, select the applicable language and click Continue.

#### Figure 24: Welcome Window



**Step 2** In the **Preparing to Install Window** screen, ensure that you have adequate resources to install the ISO image and click**Continue**.

Note We recommend a minimum of 8 GB disk.

**Caution** Do not check the **Download updates while installing** check box as this will cause the installation to fail.

Figure 25: Preparing to Install System Window

	S Install	
	Preparing to install System	
	For best results, please ensure that this computer:	
-	√ has at least 7.3 GB available drive space	
	✓ is connected to the Internet	
	Download updates while installing	

Step 3 In the Installation type window, click the Erase disk and install System radio button, and click Continue.

Figure 26: Installation Type Window



Step 4 In the Erase disk and install System window, select the applicable drive from the Select drive list, and click Install Now.

Figure 27: Erase Disk and Install System Window



**Step 5** In the Where are you? window, enter the applicable time zone, and click Continue.



#### Figure 28: Where are you? Window

**Step 6** In the **Keyboard layout** window, select the applicable keyboard layout to use by clicking the corresponding option from the Choose your keyboard layout list, and click **Continue**.

#### Figure 29: Keyboard Layout Window

Install	
Keyboard layout	
Choose your keyboard layout:	
English (Ghana) English (Nigeria) English (South Africa) English (US) Esperanto Estonian	English (UK) English (UK) - English (UK, Colemak) English (UK) - English (UK, Dvorak wit English (UK) - English (UK, Vorak) English (UK) - English (UK, Macintosh English (UK) - English (UK, Macintosh) English (UK) - English (UK, extended )
Type here to test your keyboard	
Detect Keyboard Layout	Back Continue

**Step 7** In the **Who are you?** window, enter values for the fields exactly as described here:

- In the Your name field, enter the value virl.
- In the Your computer's name field, enter the value: virl
- In the Pick a username field, enter the value: virl
- In the Choose a password field, enter the value: VIRL
   Note The password VIRL should be capitalized.
- In the Confirm your password field, enter the value: VIRL
- Uncheck the Log in automatically radio button if it is checked.
- Click the Require my password to log in radio button.
- Uncheck the Encrypt my home folder check box if it is checked.
- **Caution** No variations on these values are permitted.

Click **Continue** to start the installation.

Figure 30: Who are you? Window

Install	
Who are you?	
Your name:	
Your computer's name:	virl-virtual-machine
Pick a username:	virl
Choose a password:	Password
Confirm your password:	Confirm password
	Log in automatically     Require my password to log in
	Encrypt my home folder
	Pack
	Back

Figure 31: Completed Fields

			-
Instali			
Who are you?			
Your name:	virl		1
Your computer's name:	virl 🚽	er computers.	
Pick a username:			
Choose a password:	Short	t password	
Confirm your password:			
	<ul> <li>Log in automatically</li> <li>Require my password to log</li> </ul>	in	
	Encrypt my home folder		
	E	lack Continue	

**Note** You must eject or unmount the ISO image before proceeding.

#### **Step 8** In the **Installation Complete** window, click **Restart Now** to restart the server.

#### Figure 32: Installation Complete Window



#### What to Do Next

Start the Cisco Modeling Labs Server for the First Time