

Configure Integrated UCS C-Series to Standalone Mode on IMM

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Introduction

This document describes the procedure to convert a UCS-C series integrated in Intersight Managed Mode to standalone mode.

Prerequisites

Ensure that you have these requirements before you attempt this configuration.

- Computer to connect to C-Series Server
- Monitor
- KVM cable
- Keyboard
- 1G cable to connect to the management port

Requirements

Cisco recommends that you have knowledge of these topics:

- Basic understanding on Unified Computing Systems servers (UCS)
- Basic understanding of Intersight Managed Mode (IMM)
- Basic understanding of Cisco Integrated Management Controller (CIMC)
- Basic understanding of Networking

Components Used

- Intersight Managed Mode (IMM)
- Firmware version 4.3(3.240007)
- 6536 Fabric Interconnect
- UCSC-C220-M5SX

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

This process is required in situations where Network Adapter requires replacement and part arrives with a lower firmware not allowing server to complete discovery.

Configure

Put The Server In Standalone Mode



Warning: Ensure the server is powered off before you start this procedure.

Step 1. Decommission The Server

Navigate to your **IMM web interface**, then navigate to **Fabric Interconnects tab > Connections > Servers** and select the **desired server**.

Then, click in the **3 dots** and **decommission** it:

...

Search

Filters

5 results

Export

Name	Health	User Label	Slot Id	Model	Serial
FI-6536-1	Critical		N/A	UCSC-C220-M5SX	WZP22460WCD
FI-6536-1-1	Critical		1	UCSX-210C-M7	Power
FI-6536-1-3	Healthy		3	Turn On Locator	System
FI-6536-1-6	Healthy		6	Reset CMOS	Profile
FI-6536-1-8	Critical		8	Reset vKVM	VMware

Lock Front Panel

Rediscover

Decommission

Secure Erase

Certificate

Reboot Management Controller

Clear TPM

Reset Memory Errors

Set Asset Tag

Set User Label

Disable Tunneled vKVM

Download System Event Log

Clear System Event Log

Install Operating System

Upgrade Firmware

Launch vKVM

Launch Tunneled vKVM

Start Alarm Suppression

Open TAC Case

Set License Tier

Collect Tech Support Bundle

Fabric Interconnects

FI-6536 FI-A

Critical

Actions

General

Inventory

Connections

UCS Domain Profile

Topology

Metrics

COMPUTE

Servers

Chassis

Network

Fabric Extenders

DECOMMISSIONED

Servers

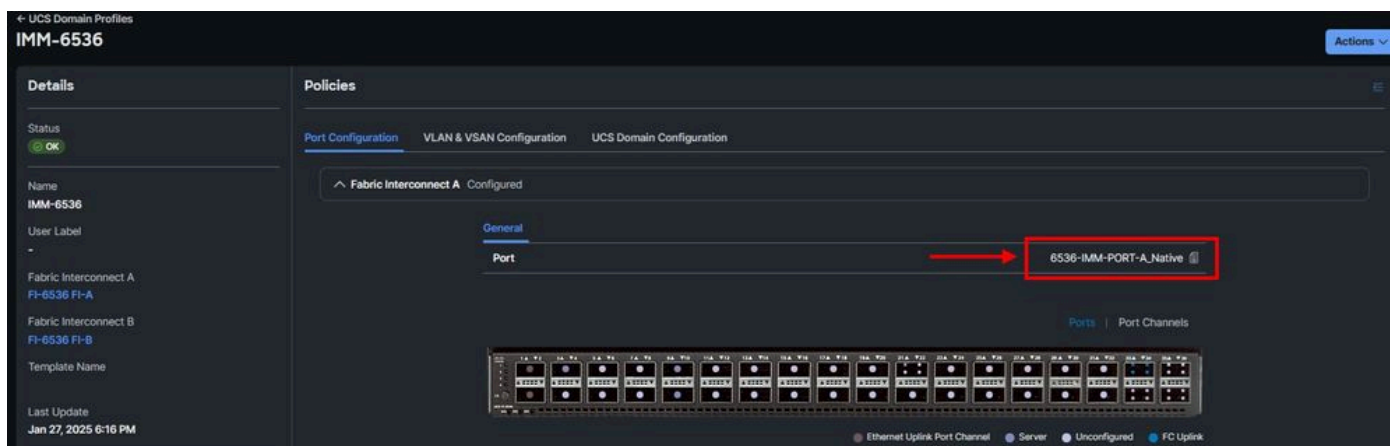
Chassis

Fabric Extenders

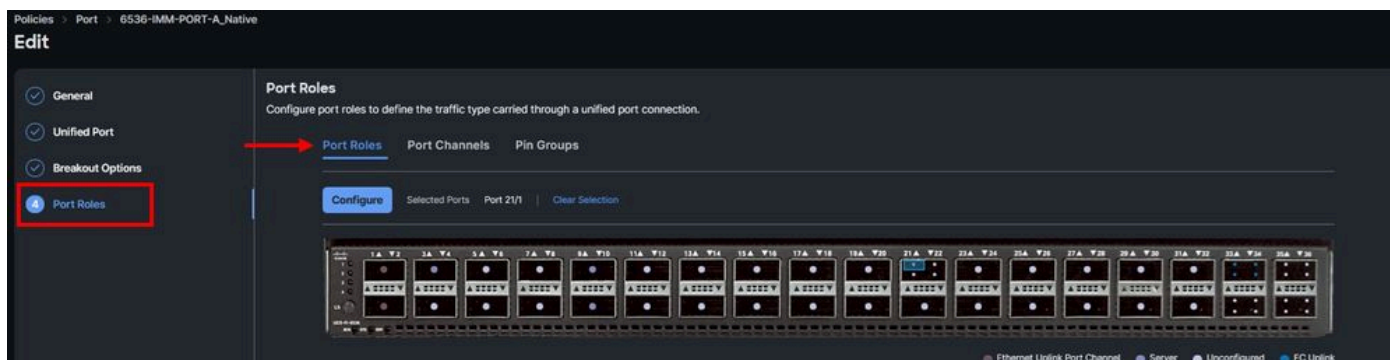
Note: You can verify the decommissioning progress in the requests tab.

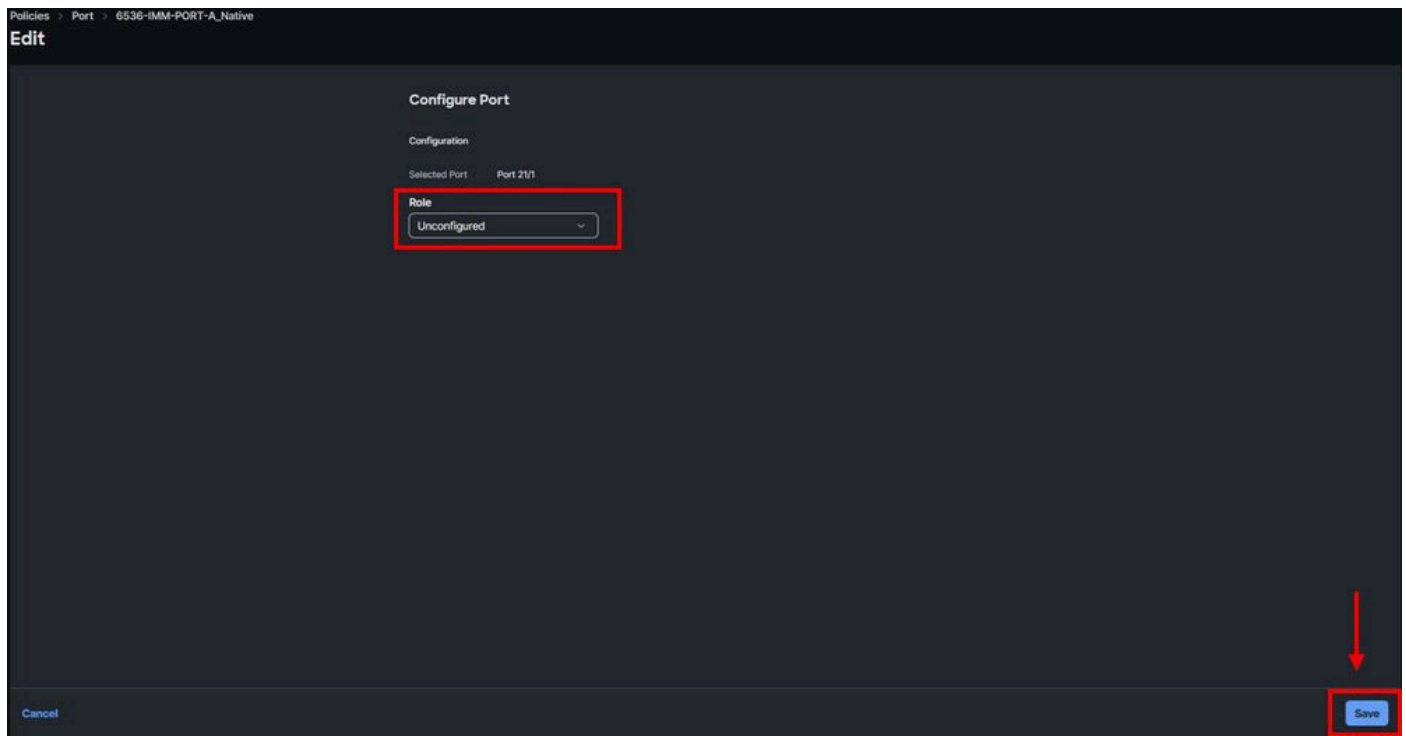
Step 2. Unconfigure The Server Ports

Navigate to **Fabric Interconnects** tab > **UCS Domain Profile** and select **Port policy**:



In **Port Roles** tab, select the **current ports** that are configured as **Server port**. Click **Configure** and select the role as **Unconfigured**. Save **changes** and re-deploy the **domain profile**. Repeat the same procedure on Fabric Interconnect B.





Step 3. Change CIMC To Default Settings

Power off the **server** and remove **power cords**.

Wait for 2 minutes and connect the **power cords** again.

Connect a **KVM cable** to the console port of the server with a monitor and keyboard.

Monitor the server boot process until you reach the Cisco menu and press **F8** to enter Cisco IMC Configuration Utility.



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Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics

Press <F8> CIMC Setup : <F12> Network Boot

Bios Version : C220M7.4.3.4a.0.0513242027

Platform ID : C220M7

Processor(s) Intel(R) Xeon(R) Gold 6454S

Total Memory = 256 GB Effective Memory = 256 GB

Memory Operating Speed 4800 Mhz

Cisco IMC IPv4 Address : 10.31.

Cisco IMC MAC Address : EC:F4:0C:1C:0E:42

Entering CIMC Configuration Utility ...

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.

NIC Properties

NIC mode		NIC redundancy	
Dedicated:	<input checked="" type="checkbox"/>	None:	<input checked="" type="checkbox"/>
Shared OCP:	<input type="checkbox"/>	Active-standby:	<input type="checkbox"/>
Cisco Card:		Active-active:	<input type="checkbox"/>
Riser1:	<input type="checkbox"/>	VLAN (Advanced)	
Riser3:	<input type="checkbox"/>	VLAN enabled:	<input type="checkbox"/>
MLom:	<input type="checkbox"/>	VLAN ID:	1
Shared OCP Ext:	<input type="checkbox"/>	Priority:	0

IP (Basic)

IPV4:	<input checked="" type="checkbox"/>	IPV6:	<input type="checkbox"/>
DHCP enabled	<input type="checkbox"/>		
CIMC IP:	1.1.1.11		
Prefix/Subnet:	255.255.255.0		
Gateway:	1.1.1.1		
Pref DNS Server:	1.1.1.2		

Smart Access USB

Enabled ☐

<Up/Down>Selection <F10>Save <Space>Enable/Disable <F5>Refresh <ESC>Exit
<F1>Additional settings

Press **F1** and enable **Factory Default**.

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.

Common Properties

Hostname: C220-W2P26360761-API
Dynamic DNS: ☒
DDNS Domain:

FactoryDefaults

Factory Default: ☒

Default User(Admin)

Enter New Default User password:
Re-Enter New Default User password:

Port Properties

Auto Negotiation:	<input checked="" type="checkbox"/>	Admin Mode	Operation Mode
Speed[1000/100/10Mbps]:	Auto	1000	
Duplex mode[half/full]:	Auto	full	

Port Profiles

Reset: ☐
Name:

<Up/Down>Selection <F10>Save <Space>Enable/Disable <F5>Refresh <ESC>Exit
<F2>Previous Page

Press **F10** to save changes and **reboot** the server.

Step 4. Configure CIMC To Standalone Mode

Monitor the server boot process until you reach the Cisco menu and press **F8** to enter to Cisco IMC Configuration Utility again.

Apply the next configuration:

- NIC mode selected to Dedicated
- IP to IPV4
- CIMC IP with an IP in the same subnet as your computer.
- NIC redundancy to none
- No VLAN

```
Cisco IMC Configuration Utility Version 2.0  Cisco Systems, Inc.
*****
NIC Properties
NIC mode                                NIC redundancy
Dedicated:      [X]                    None:          [X]
Shared OCP:     [ ]                    Active-standby: [ ]
Cisco Card:     [ ]                    Active-active:  [ ]
  Riser1:       [ ]                    VLAN (Advanced)
  Riser3:       [ ]                    VLAN enabled:  [ ]
  MLom:         [ ]                    VLAN ID:       1
Shared OCP Ext: [ ]                    Priority:      0
IP (Basic)
IPV4:           [X]                    IPV6:         [ ]
DHCP enabled    [ ]
CIMC IP:        11.11.11.11
Prefix/Subnet:  255.255.255.0
Gateway:        11.11.11.1
Pref DNS Server:
Smart Access USB
Enabled         [ ]
*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
<F1>Additional settings
```

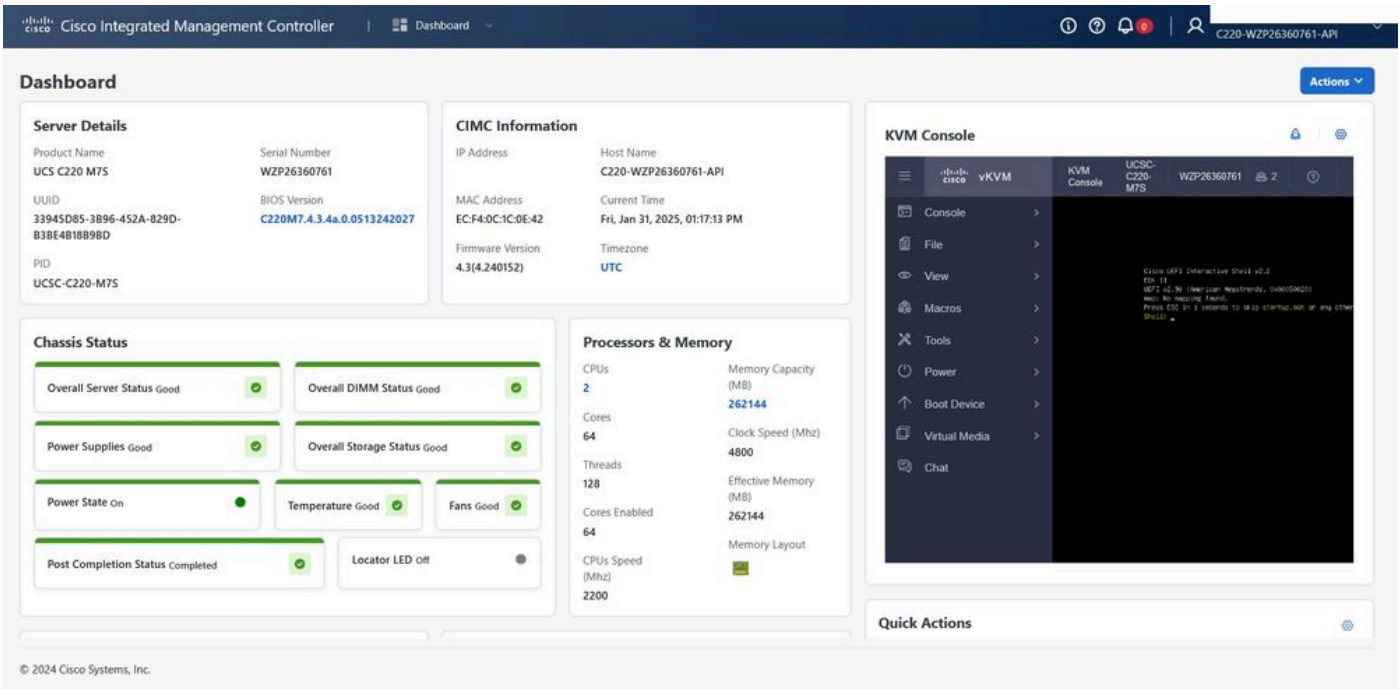
Press **F10** to save changes and **reboot** the server.

Connect your computer to the physical **Management Port** on the server and open a **web browser**.

Use the IP you configured <https://x.x.x.x>



CIMC Prompt view and current CIMC version:



Reimage Firmware Version

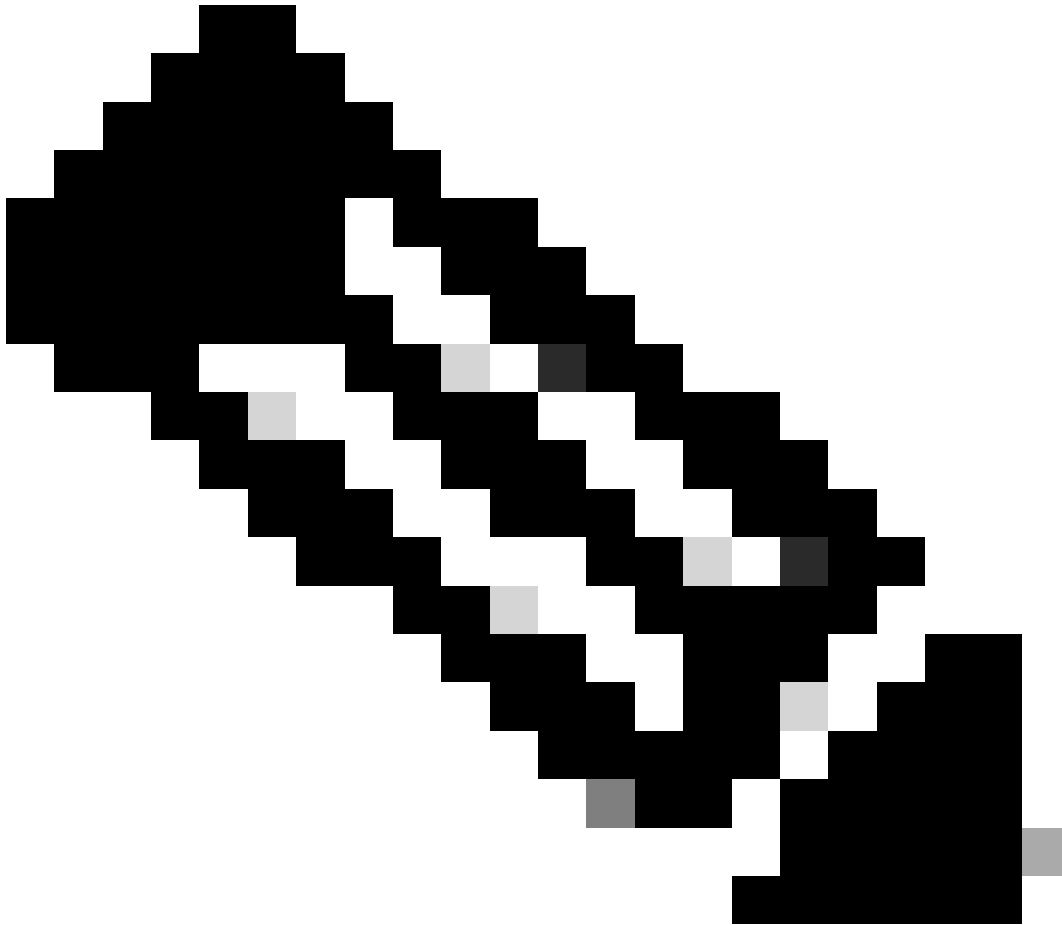


Note: In case your Server is integrated back into Intersight, it is highly recommended to reimage the firmware version.

Step 1. Download Host Upgrade Utility (HUU) ISO

You can download HUU ISO at software.cisco.com.

Step 2. Launch KVM And Map HUU ISO



Note: If you prefer, you can expand the KVM tab, navigate to **Actions > System** and click **Launch KVM**.

Dashboard

Server Details
Product Name
UCS C220 M75
Serial Number
WZP26360761
UUID
33945D85-3B96-452A-629D-B3BE4B18B9BD
PID
UCSC-C220-M75

CIMC Information
IP Address
10.31.123.30
Host Name
C220-WZP26360761-API
MAC Address
EC:F4:0C:1C:0E:42
Current Time
Fri, Jan 31, 2025, 03:18:12 PM
Firmware Version
4.3(4.240152)
Timezone
UTC

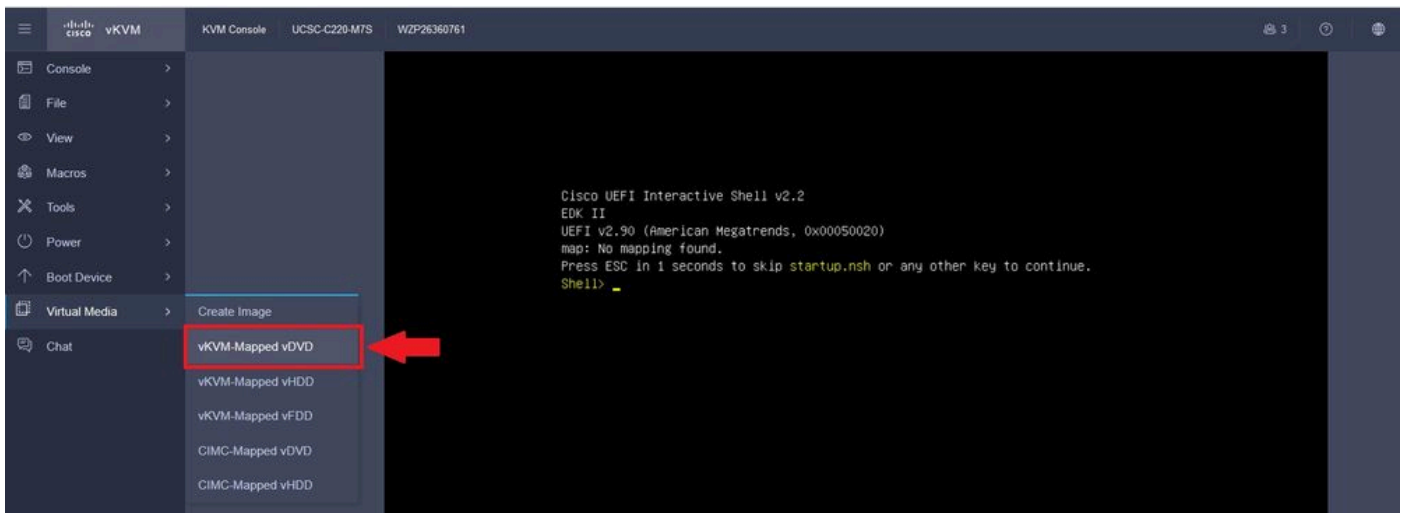
Chassis Status
Overall Server Status Good
Power Supplies Good
Power State On
Post Completion Status Completed
Overall DIMM Status Good
Overall Storage Status Good
Temperature Good
Fans Good
Locator LED Off

Processors & Memory
CPUs
2
Cores
64
Threads
128
Cores Enabled
64
CPUS Speed (Mhz)
Memory Capacity (MB)
262144
Clock Speed (Mhz)
4800
Effective Memory (MB)
262144
Memory Layout

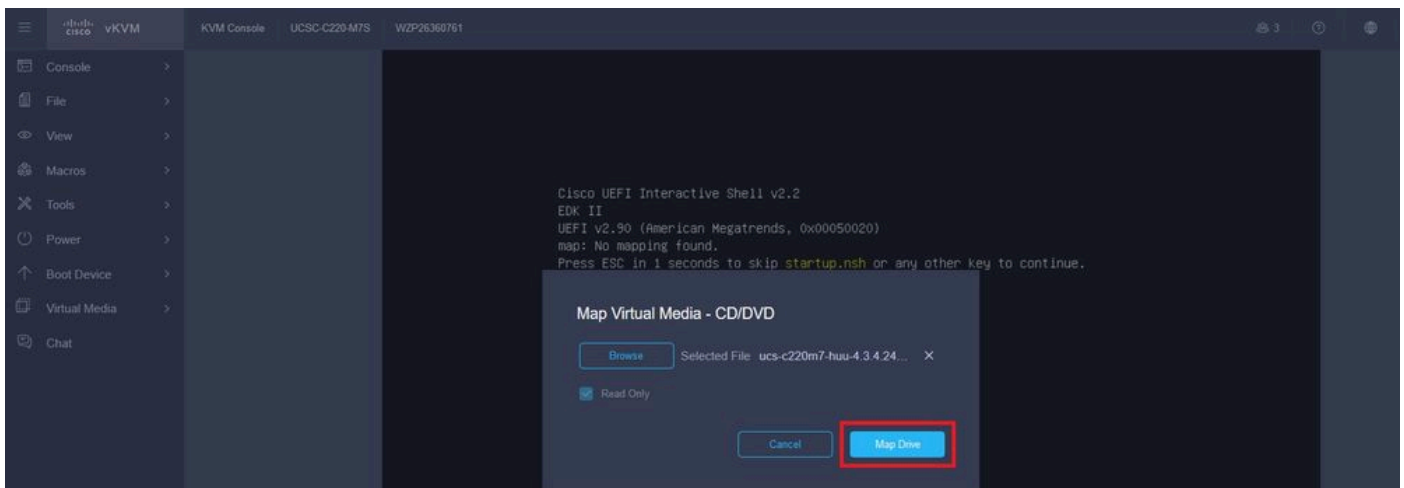
KVM Console
Console
File
View
Macros
Tools
Power
Boot Device
Virtual Media
Chat

Actions ^
CIMC Reboot
Launch KVM
Ping
Turn On LED
Power
System

Once you download HUU for the current version, navigate to **CIMC**, then on the right, see the KVM console and remove on **Virtual Media**, then click **vKVM-Mapped vDVD** and map the ISO file:



Map HUU on Map CD/DVD:



Step 3. Boot Using HUU ISO

Reboot the server and monitor the boot process until you reach the Cisco menu and press **F6** to enter to Boot Menu.



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Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics

Press <F8> CIMC Setup : <F12> Network Boot

Bios Version : C220M7.4.3.4a.0.0513242027

Platform ID : C220M7

Processor(s) Intel(R) Xeon(R) Gold 6454S

Total Memory = 256 GB Effective Memory = 256 GB

Memory Operating Speed 4800 Mhz

Cisco IMC IPv4 Address : 10.31.

Cisco IMC MAC Address : EC:F4:0C:1C:0E:42

Entering Boot Menu ...

Select **vKVM-Mapped vDVD** option to boot HUU ISO mapped:

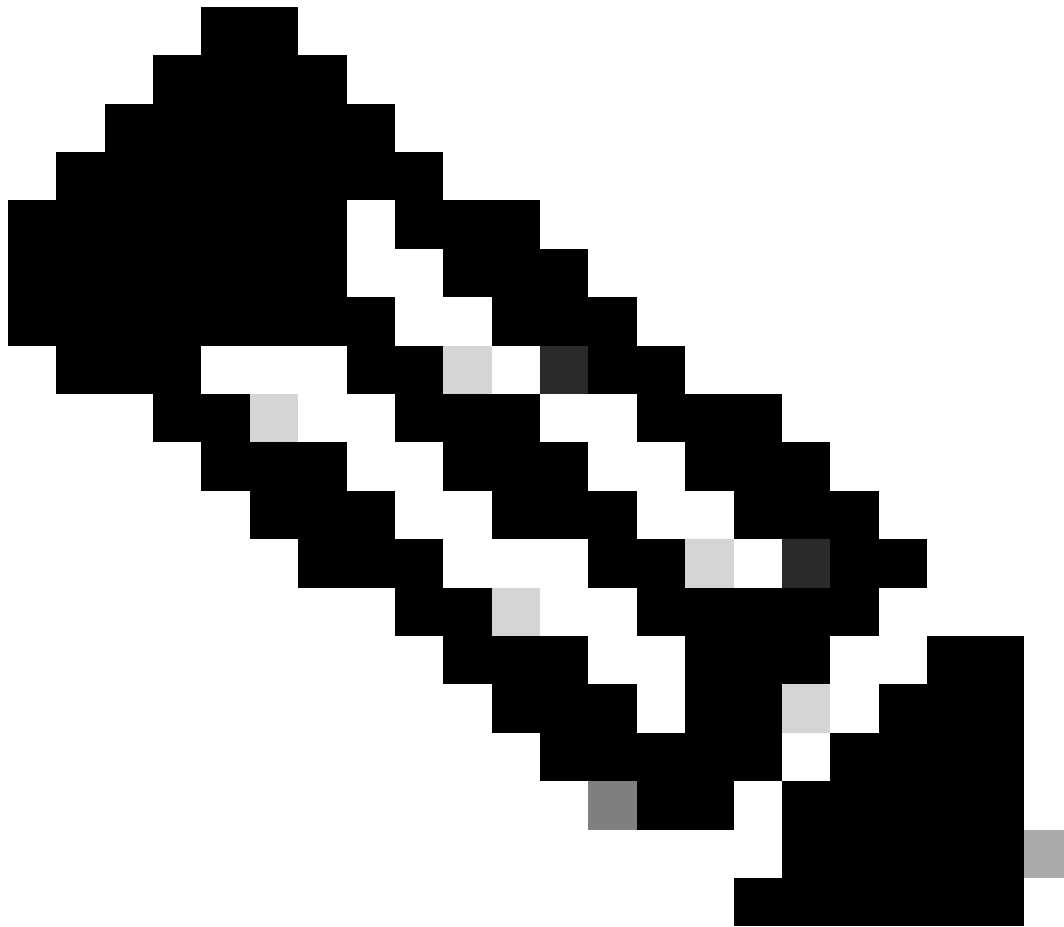
Please select boot device:

UEFI: Cisco vKVM-Mapped vDVD2.00

UEFI: Built-in EFI Shell

Enter Setup

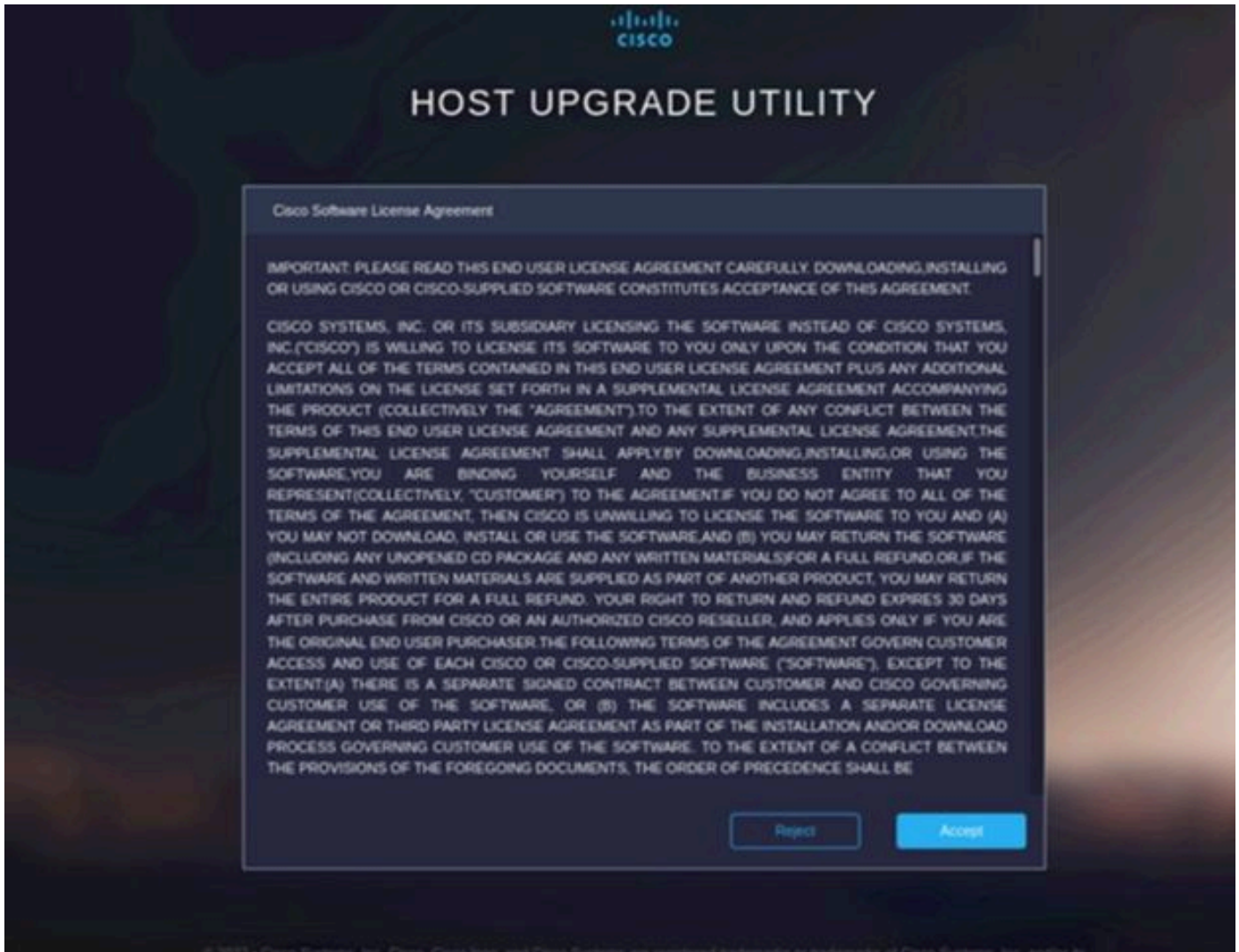
↑ and ↓ to move selection
ENTER to select boot device
ESC to boot using defaults



Note: Loading HUU ISO can take several minutes.

Step 4. Reimage Current Version

Wait until HUU ISO loads and accepts the Cisco Software License Agreement.



Switch to **Advanced Mode** and select **all the components**, then click **Update & Activate**.

Wait until it finishes the reimage and the server reboots.

Integrate Server to Cisco Intersight



Note: Before integrating the server to Intersight, it is important to Reset **CIMC** and **VIC adapter** into factory Default settings so that they can be properly configured.

Step 1. Set BMC And VIC To Factory Default

Navigate to **Administration > Utilities > Actions > Admin Utilities > Reset to Factory Defaults:**

Cisco Integrated Management Controller

Administra...

C220-WZP26360761-API

User Management

Networking

Communication Services

Security Management

Event Management

Firmware Management

Utilities

Admin Utilities

Operation	Status
Last Technical Support Data Export	Status Last Generated Time Cancel
Cisco IMC Last Reset	Status
Cisco IMC Configuration Import/Export	Action Status Diagnostic Message
PID Catalog	Upload Status Activation Status Current Activated Version
Inventory Data	Status
VIC Adapter Import/Export	Action Status Diagnostic Message

Export Technical Support Data

Generate Technical Support Data for Local Download

Import Configuration

Export Configuration

Reset to factory Default

Generate NMI to Host

Add/Update Cisco IMC Banner

Download Hardware Inventory Data to Local Download

Export Hardware Inventory Data to Remote

Disable Secure Adapter Update

Enable Smart Access USB

Actions

Admin Utilities

Power

System

User Management

Networking

Communication Services

Security Management

Event Management

Firmware Management

Utilities

Admin Utilities

Operation	Status
Last Technical Support Data Export	Status
Cisco IMC Last Reset	COMPLETED (100%) Thu, 30 Jan 2025 10:28:12 +0000
Cisco IMC Configuration Import/Export	about NONE NONE NONE
PID Catalog	N/A N/A N/A
Inventory Data	ATED NONE NONE (N/A) NONE
VIC Adapter Import/Export	IC N/A N/A
Factory Default Status	Storage

Reset to factory Default

Reset to factory Default Setting of

Adapter Card MLOM X

BMC X

BMC

☒ BMC

Storage

☐ Cisco Tri-Mode 24G SAS RAID Controller w/4GB Cache

VIC

☒ Adapter Card MLOM

Reset

Cancel

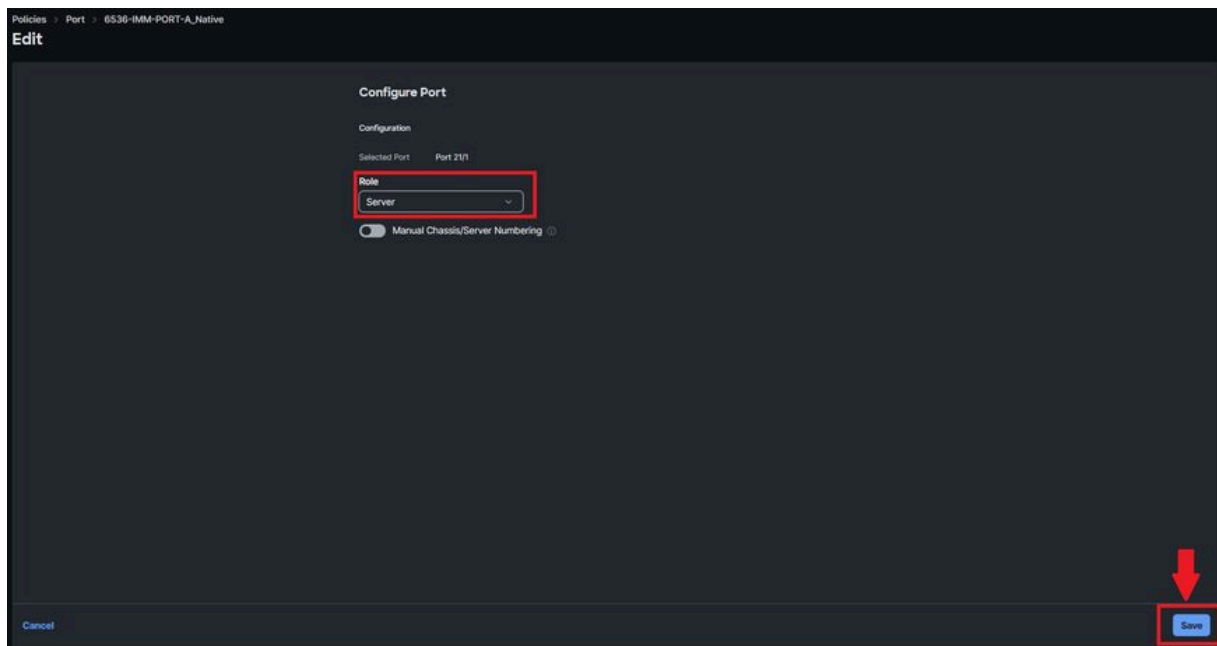


Note: It is not required to reset to default Storage devices. If selected, it erases the Virtual Drives and the data written to the Disks.

Step 2. Reconfigured Ports As Server Ports

Navigate to **Fabric Interconnects tab > UCS Domain Profile** and select **Port policy**.

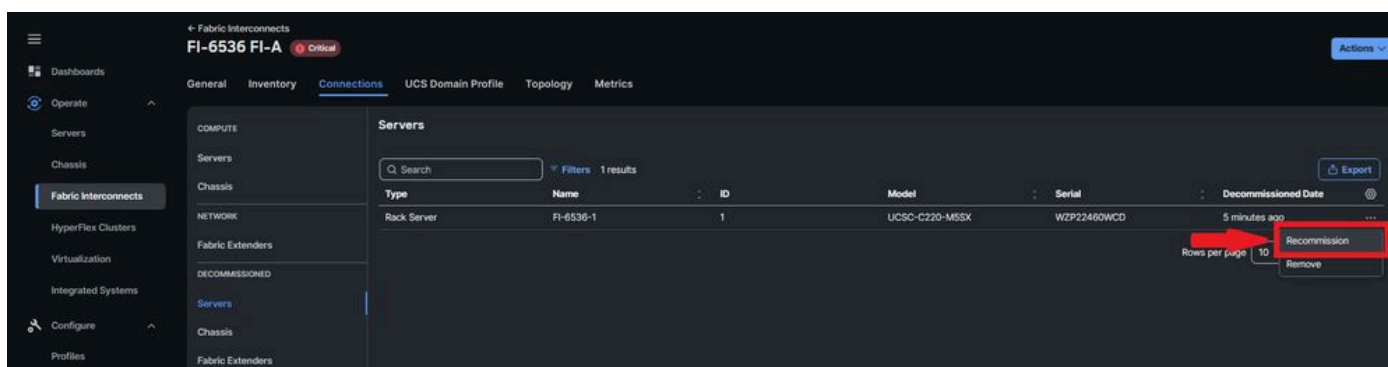
In **Port Roles** tab. Select the **previous ports** that were configured as **Unconfigured** state. Click **Configure** and select the port role as **Server port**. Save the changes and re-deploy the **domain profile**, repeat the same procedure on Fabric Interconnect B.



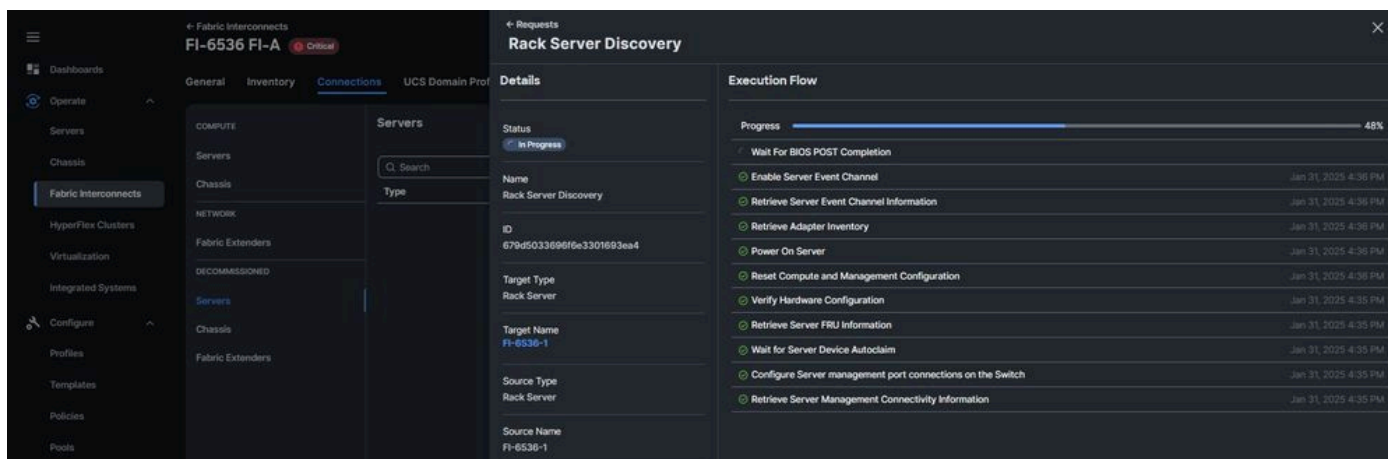
Connect the required ports from the Network Adapter to the Fabric Interconnects ports.

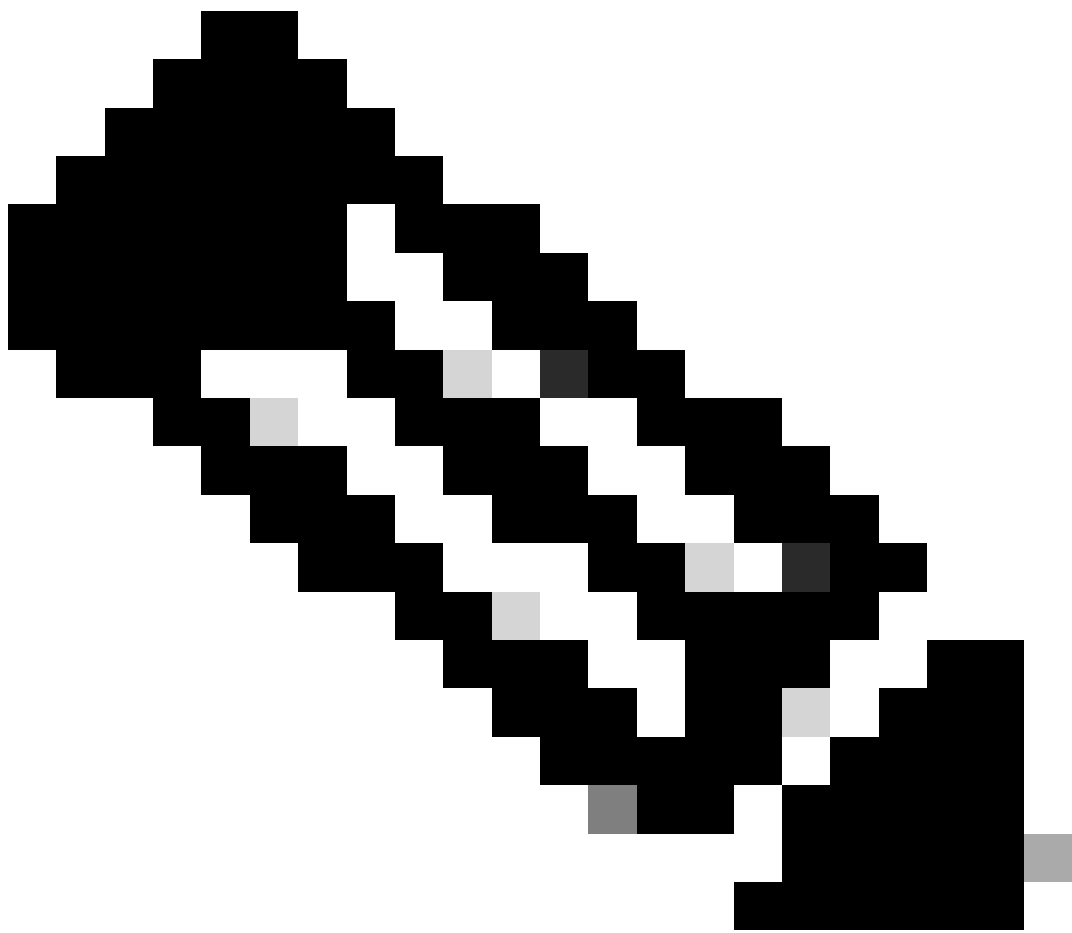
Step 3. Recommission The Server

Navigate to **Fabric Interconnects** tab. Select the **Fabric Interconnect** connected to the server. Click **Connections** tab and in **Decommissioned** area select **Servers**. Select the **server** and **recommission** it.



You can monitor the server discovery process in the **Requests** tab.





Note: Discovery can take several minutes to start.

Verify

For verification purposes and to confirm via CLI that the C series server has been integrated correctly, you can run this command:

```
6536-A(nx-os)# show interface chassis-info
Adapter Mode Flags:  I - CIMC IMM mode
                    U - CIMC UCSM mode
                    S - CIMC Standalone mode
                    Y - NCSI Yes
                    N - NCSI No
```

Chassis ID Port	Chassis Port State	Remote Uplink	Chassis Model	Serial	Module Model	Adapter Mode Serial
1 Br-Eth1/21/1	Active	1	UCSC-C220-M5SX	WZP22460WCD	UCSC-MLOM-C25Q-04	FCH22337SV2 I-Y

Related Information

- [Cisco Intersight Managed Mode Configuration Guide](#)
- [Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide, Release 4.3](#)
- [Technical Support & Documentation - Cisco Systems](#)