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

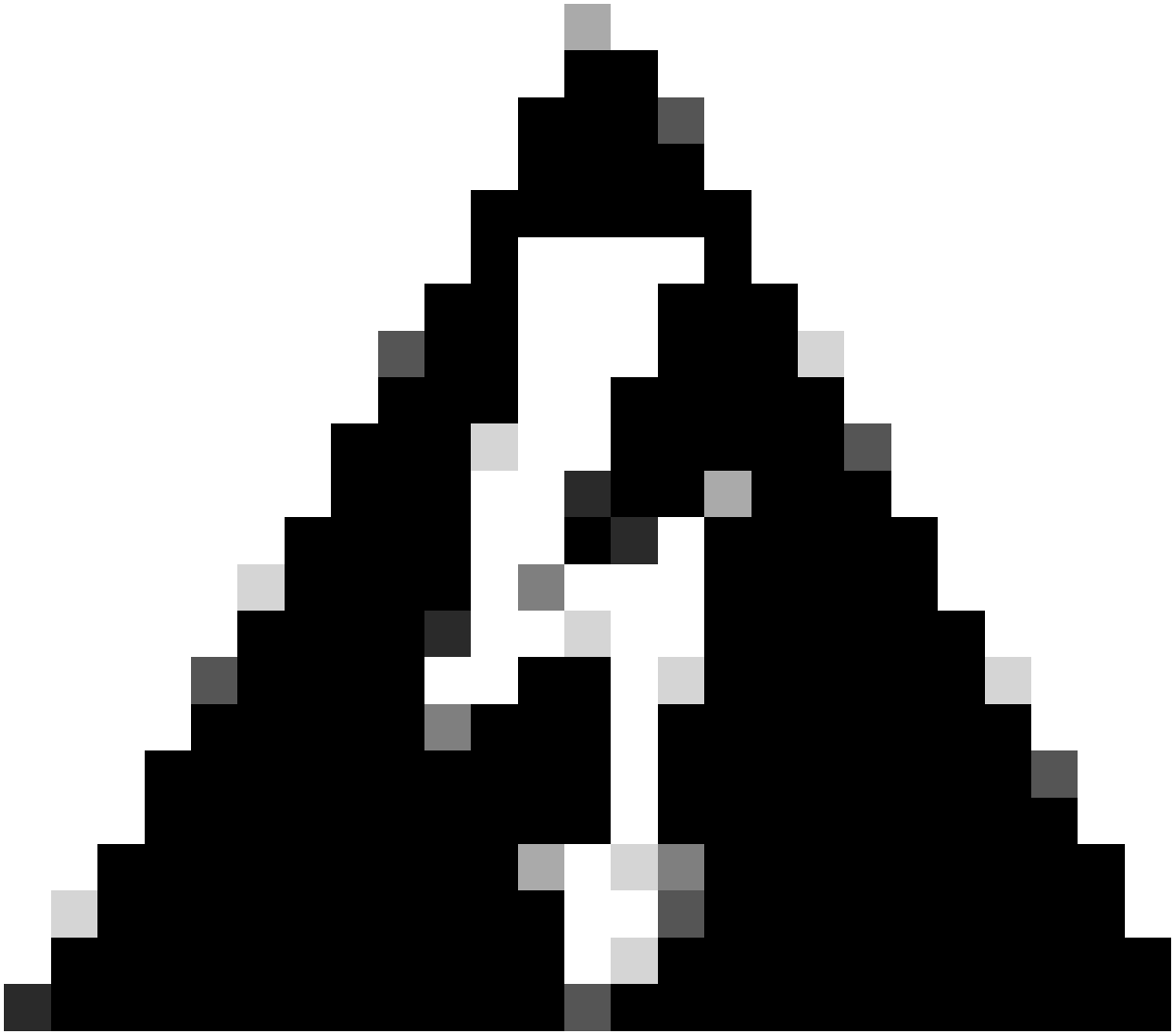
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

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

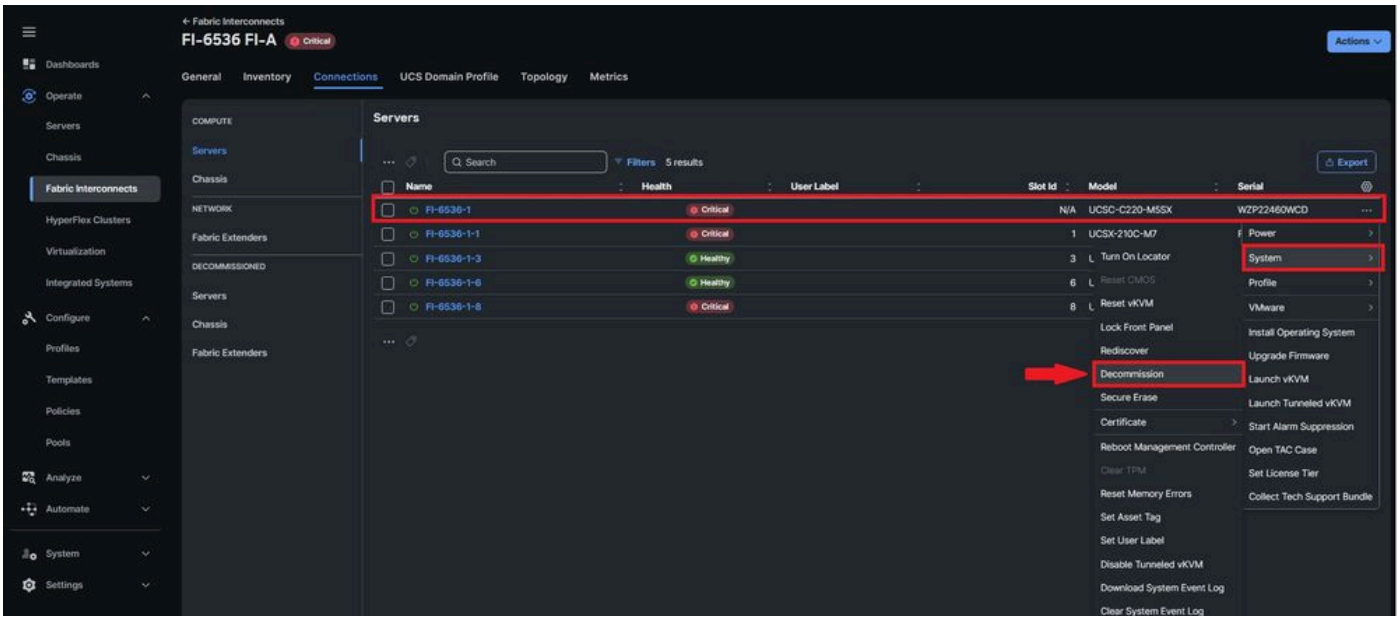


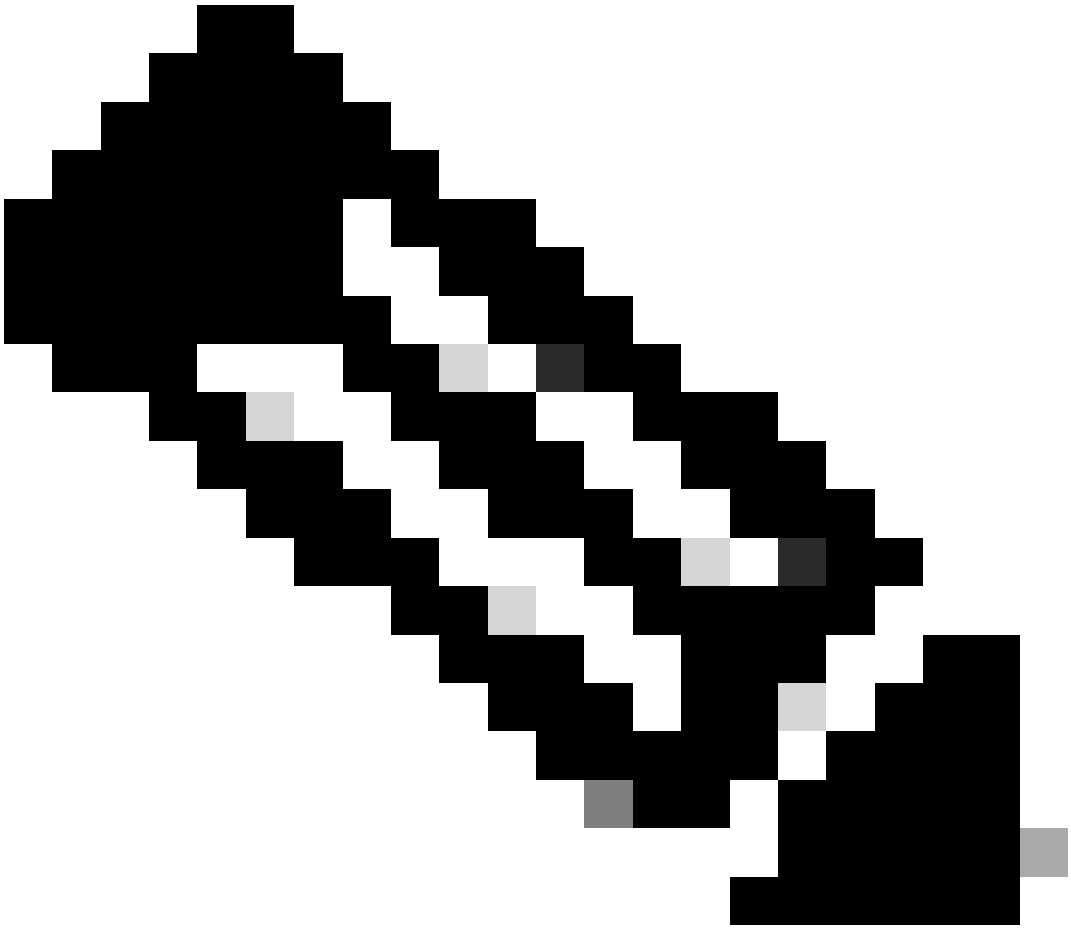
Warning: Ensure the server is powered off before you start this procedure.

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:

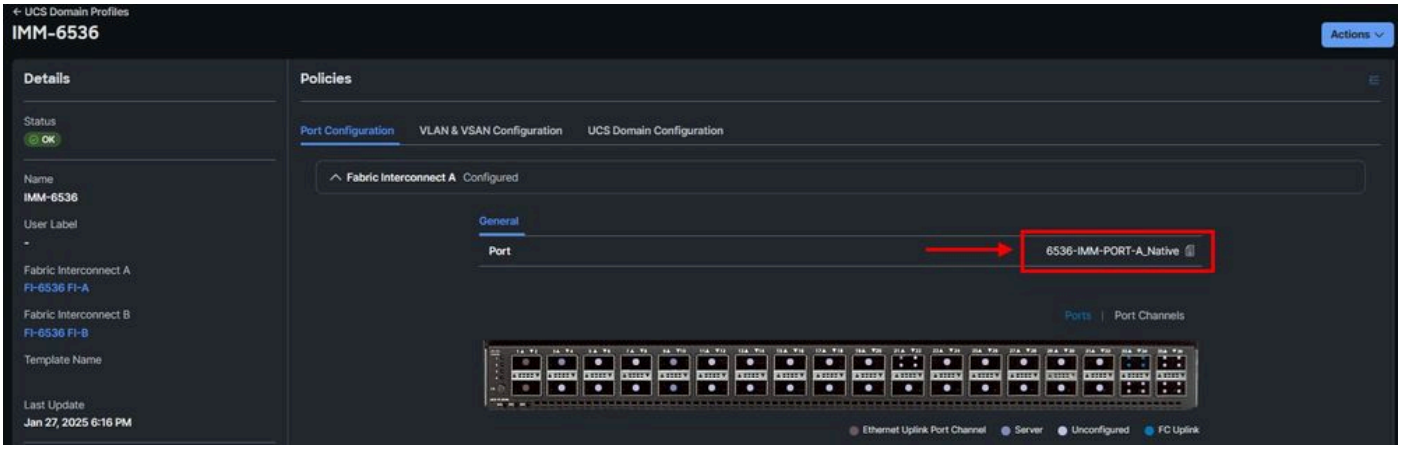




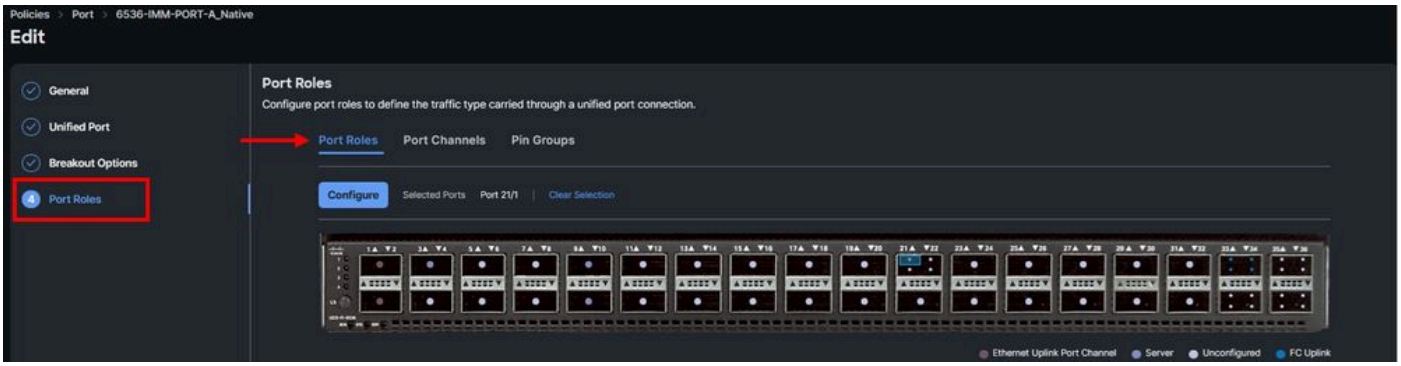
Note: You can verify the decommissioning progress in the requests tab.

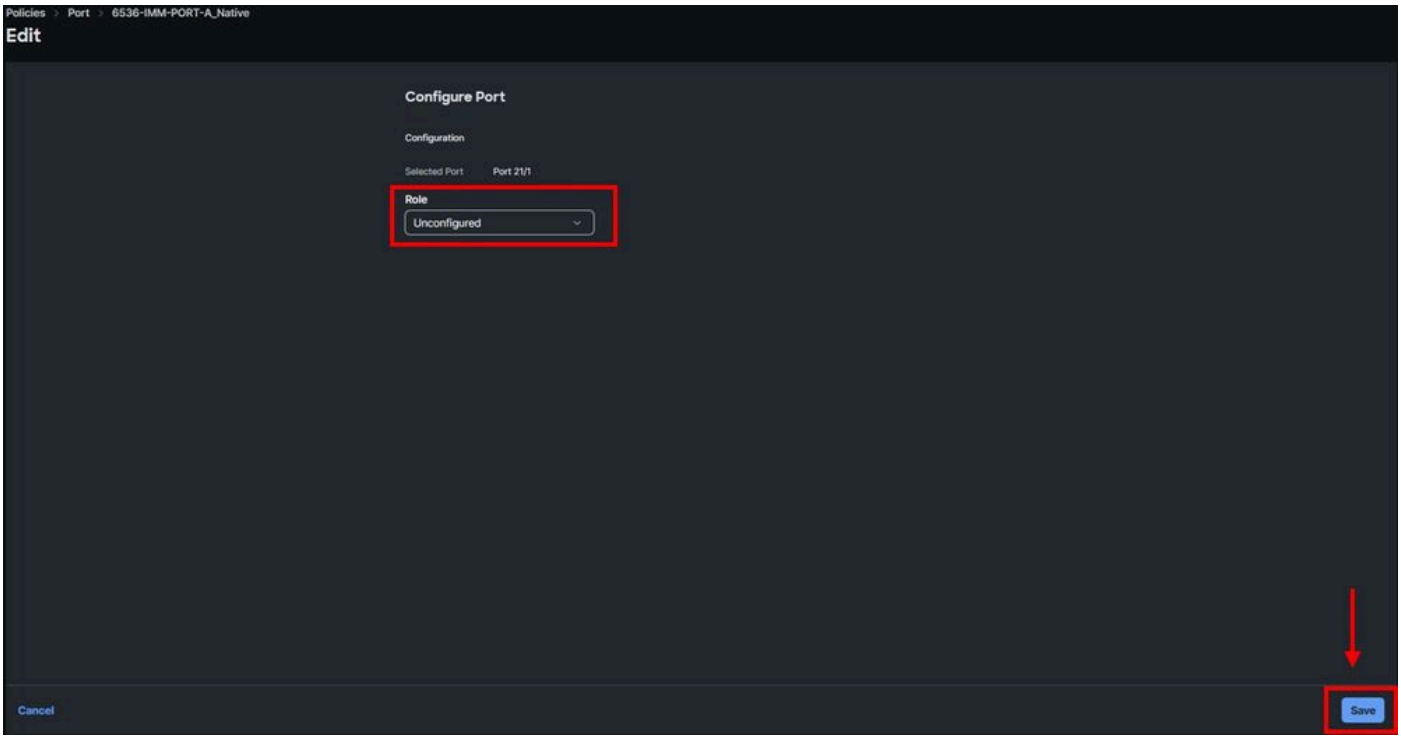
Step 2. Unconfigure The Server Ports

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

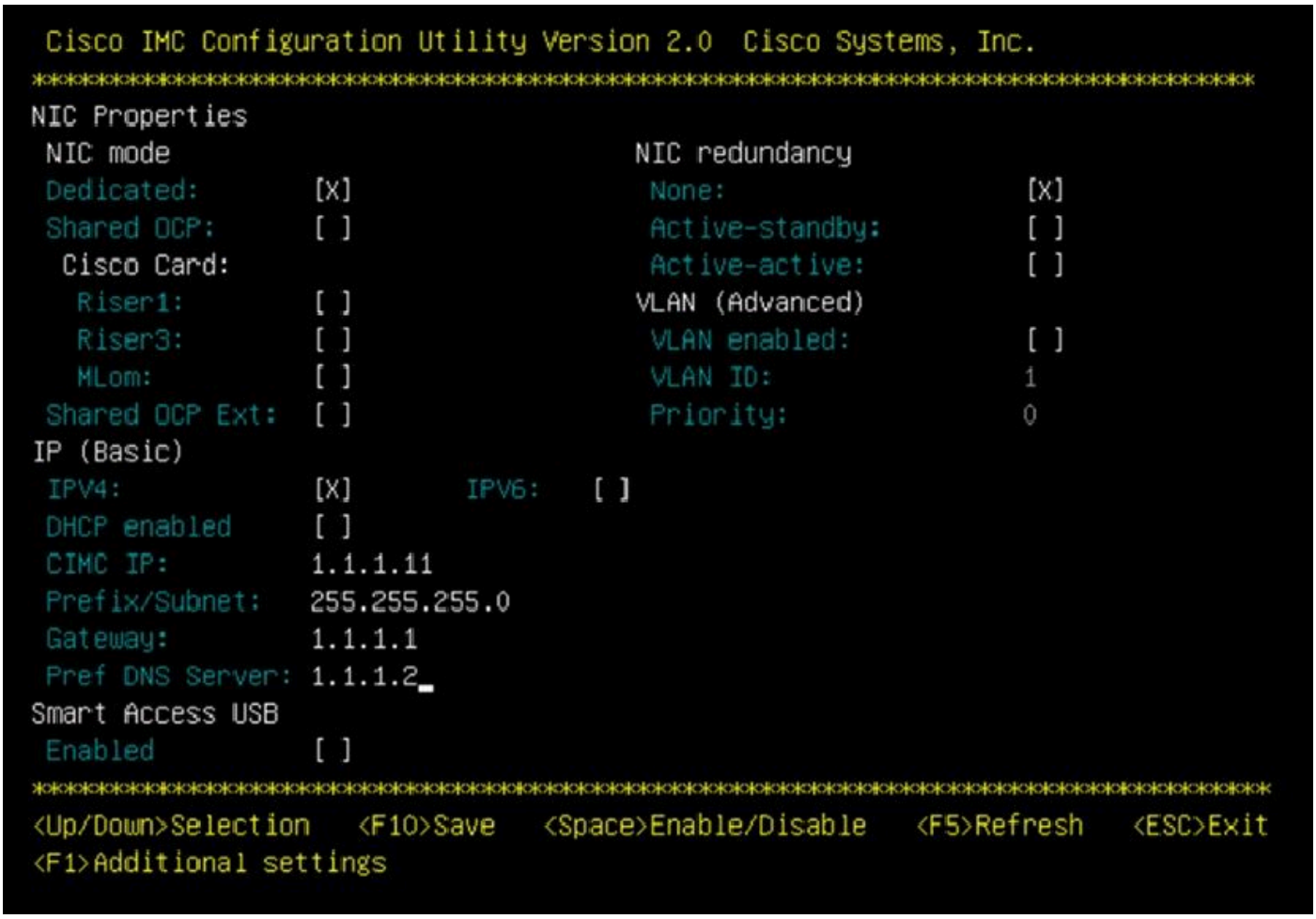
Power off the **server** and remove **power cords**.

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

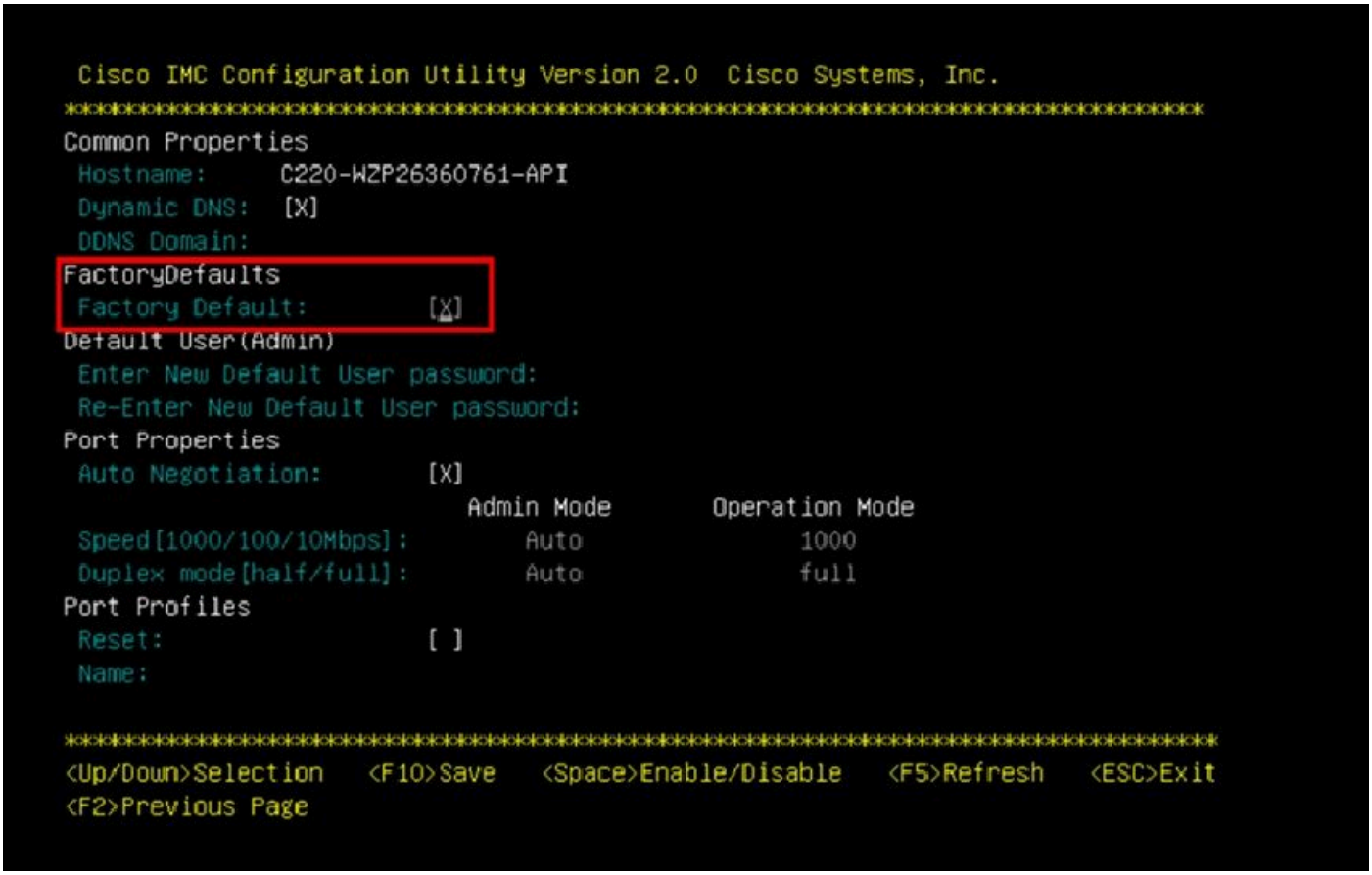
Connect a **KVM cable** to the console port of the server with a monitor and keyboard.

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


Copyright (c) 2024 Cisco Systems, Inc.
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 ...



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



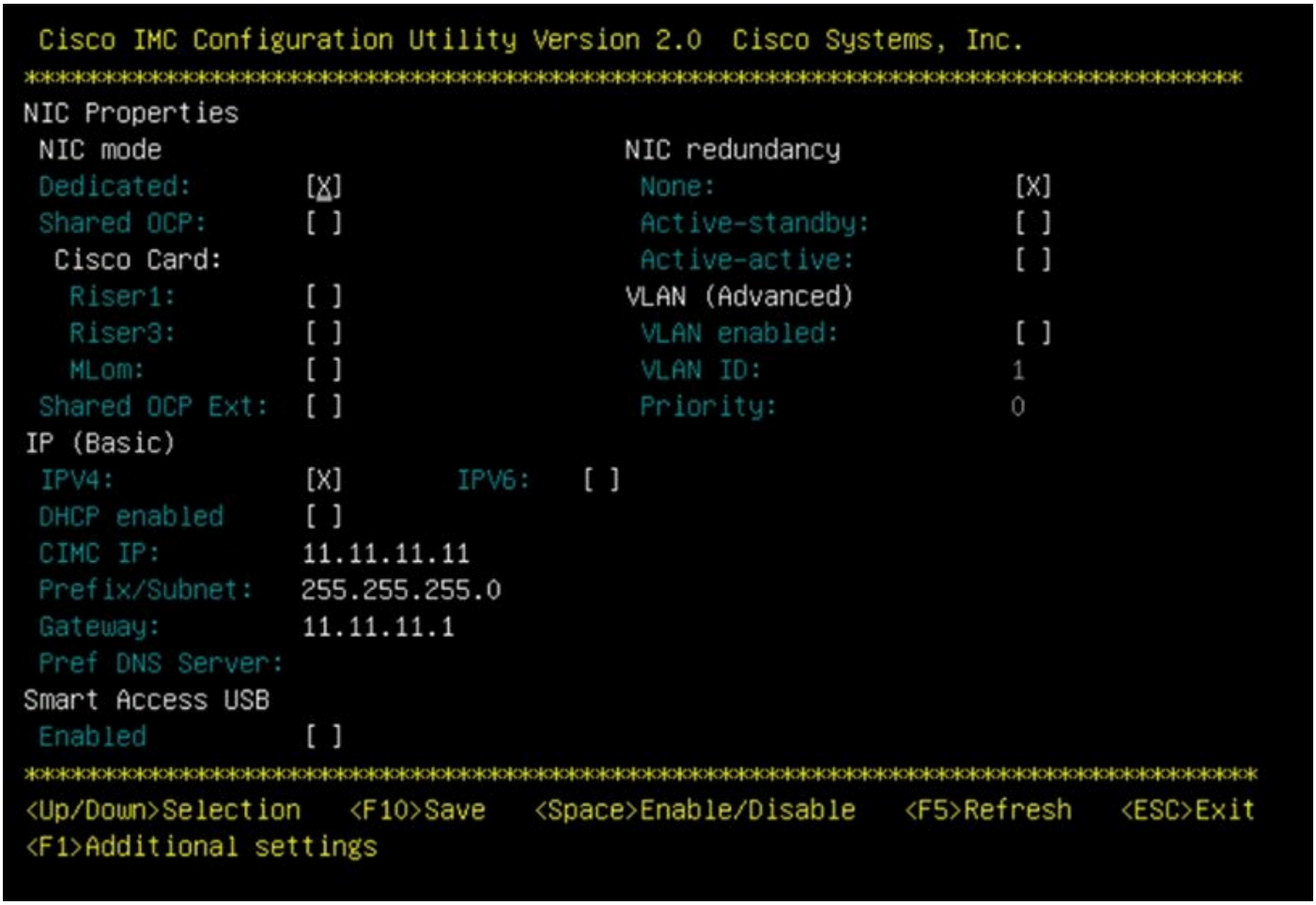
Press **F10** to save changes and **reboot** the server.

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

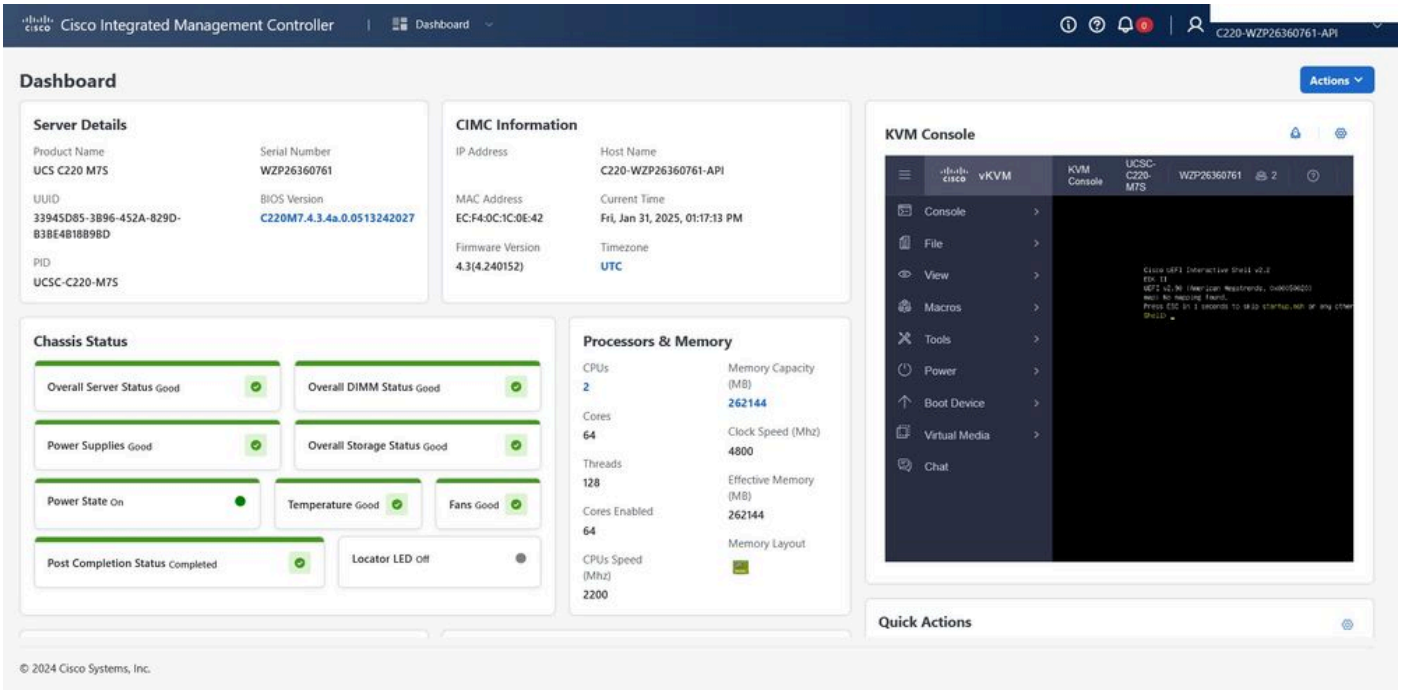


Press **F10** to save changes and **reboot** the server.

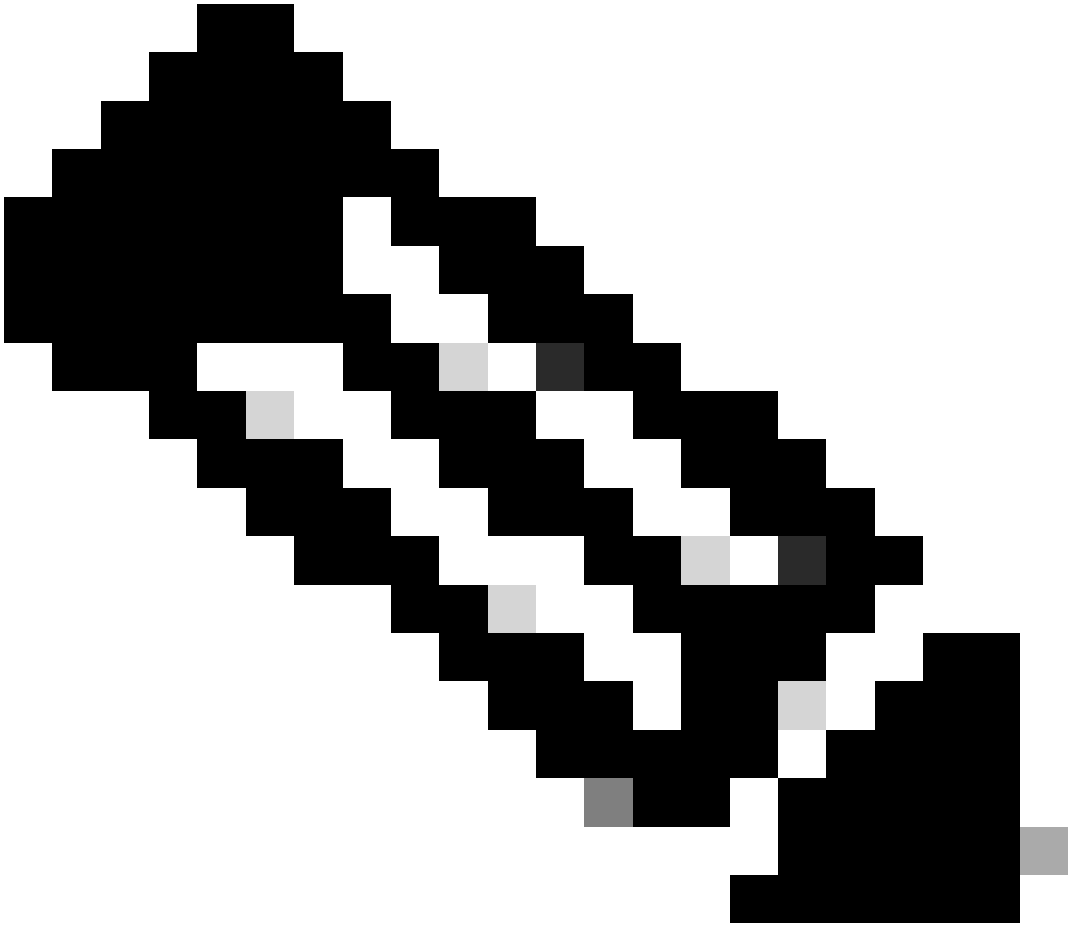
Connect your computer to the physical **Management Port** on the server and open a **web browser**.

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

CIMC Prompt view and current CIMC version:



Reimage Firmware Version

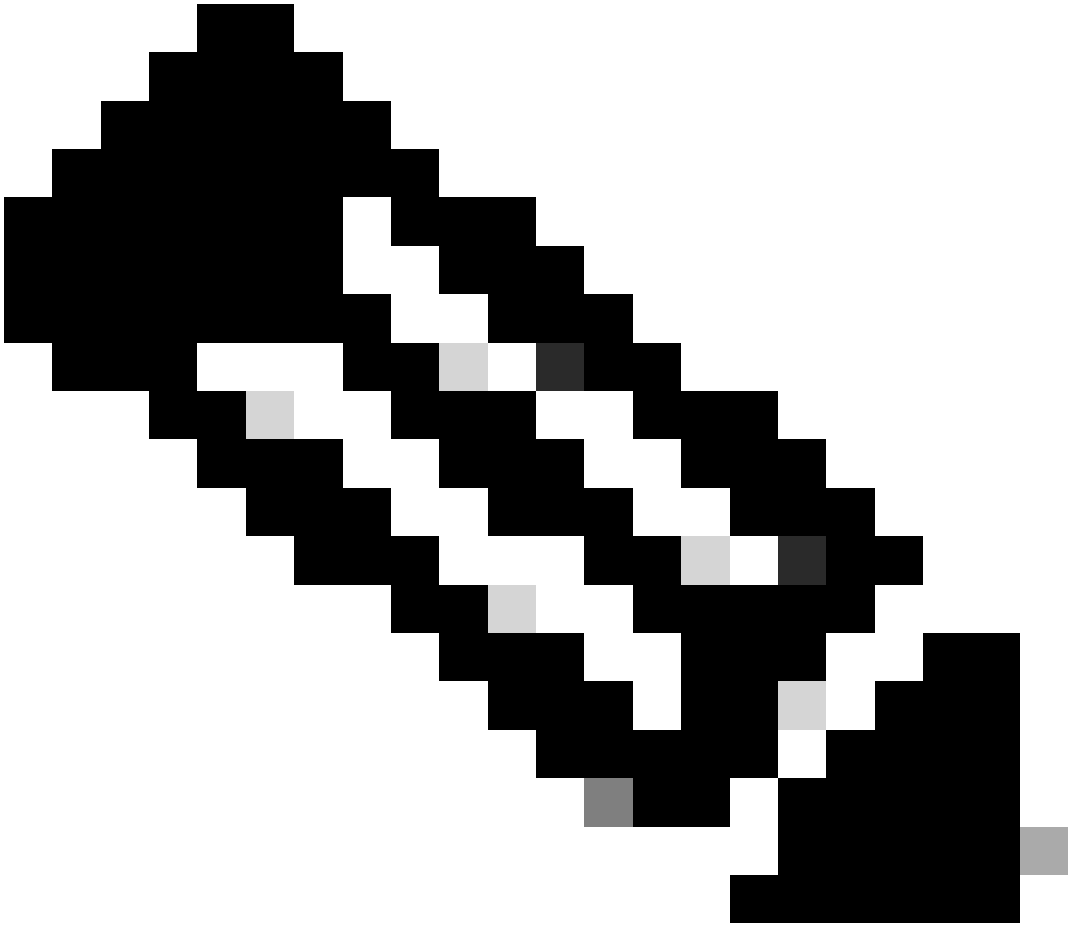


Note: In case your Server is integrated back into Intersight, it is highly recommended to reimage the firmware version.

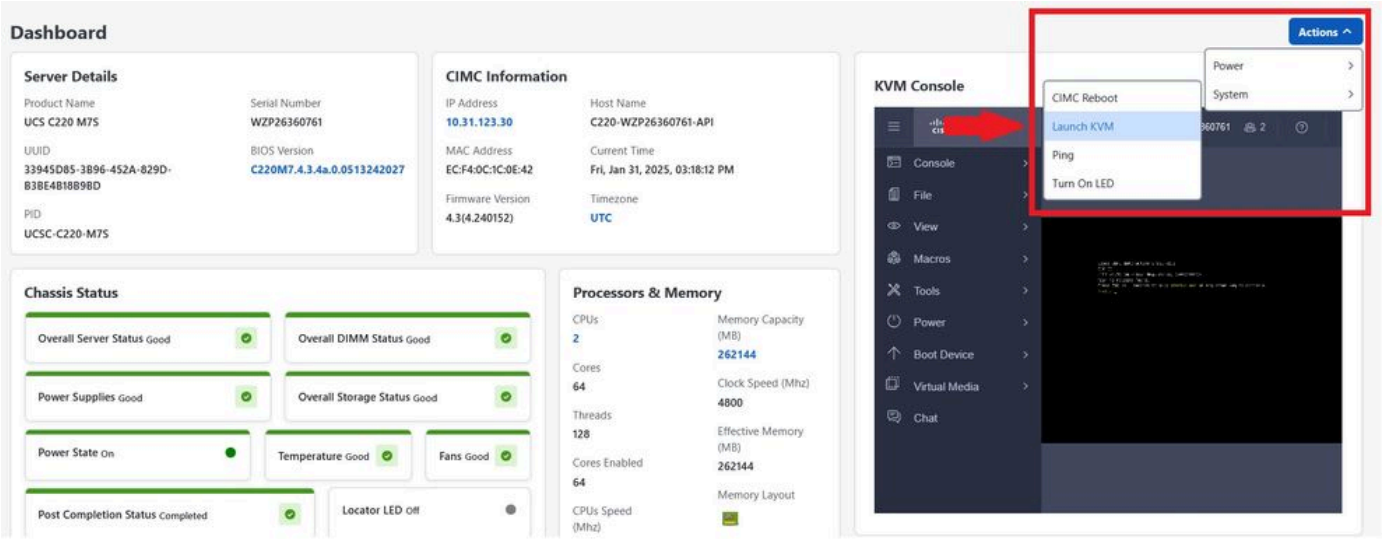
Step 1. Download Host Upgrade Utility (HUU) ISO

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

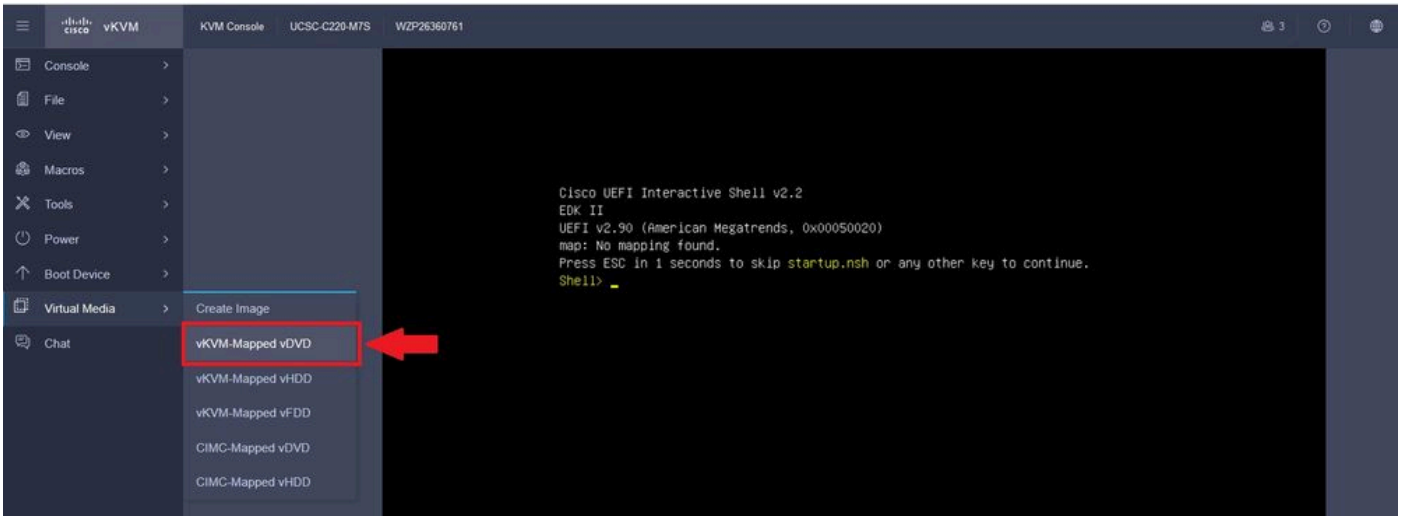
Step 2. Launch KVM And Map HUU ISO



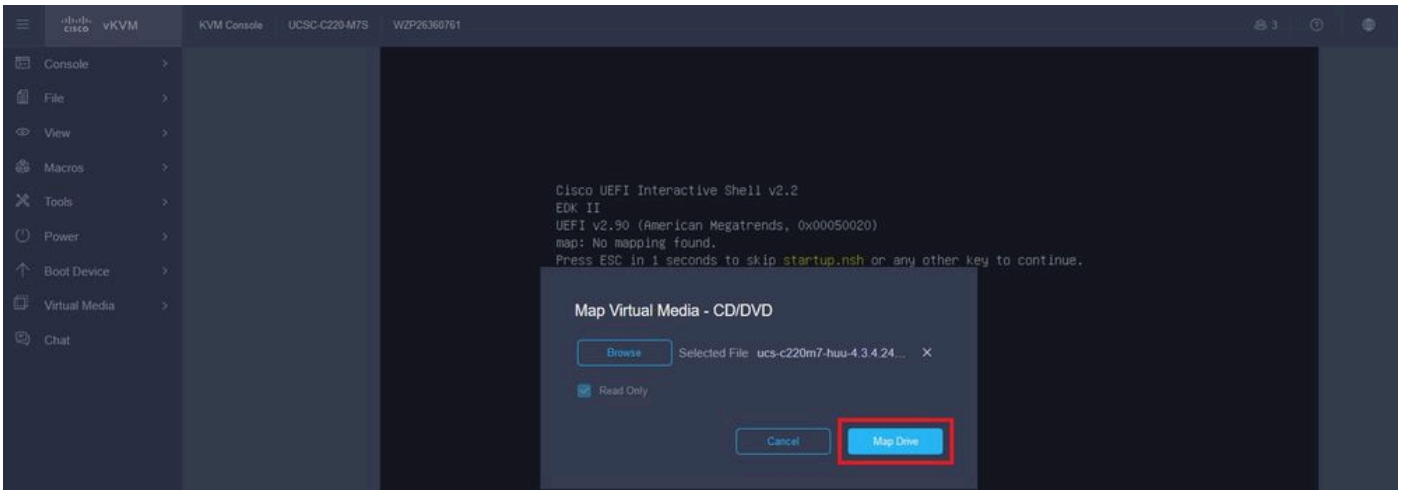
Note: If you prefer, you can expand the KVM tab, navigate to **Actions > System** and click **Launch KVM**.



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:

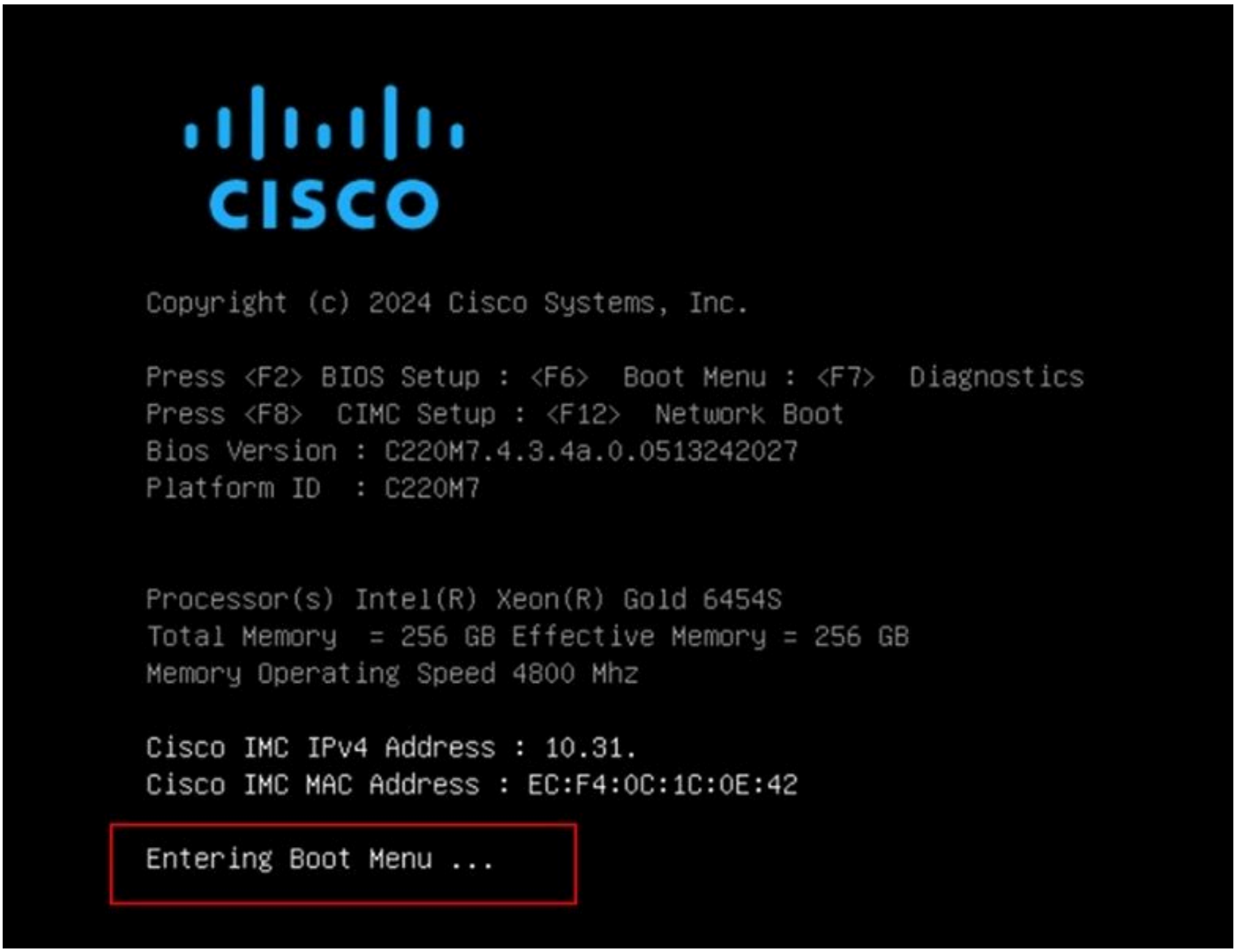


Map HUU on Map CD/DVD:



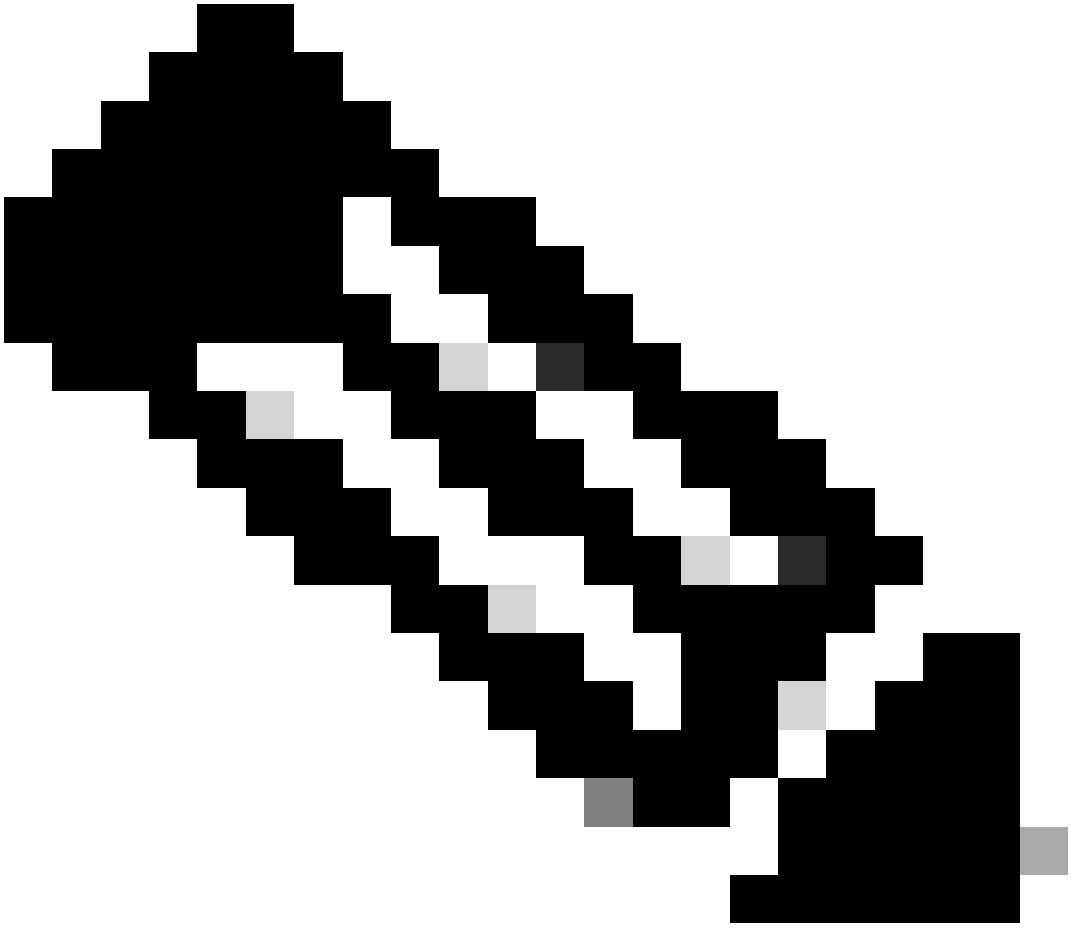
Step 3. Boot Using HUU ISO

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



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

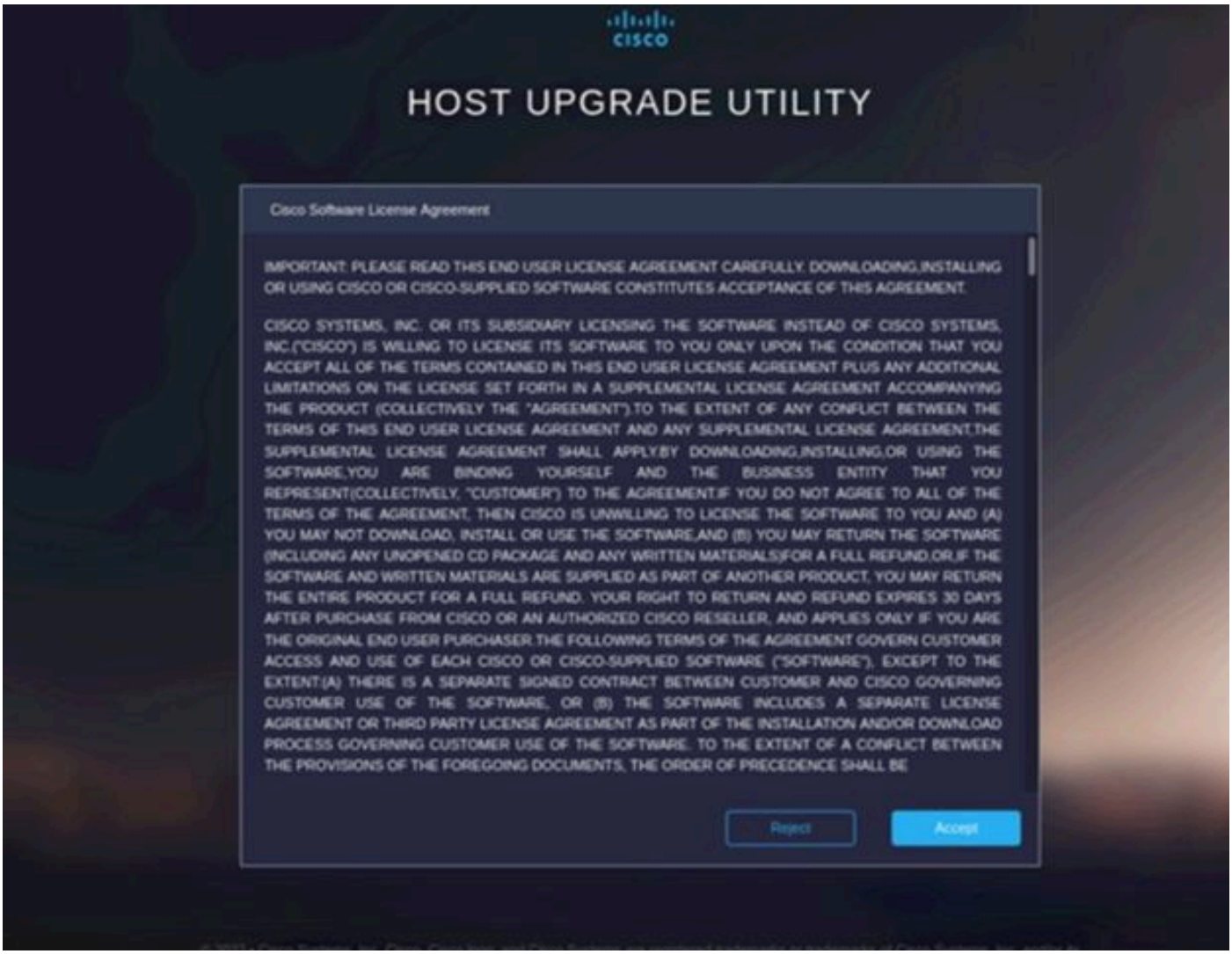

Please select boot device:
UEFI: Cisco vKVM-Mapped vDVD2.00
UEFI: Built-in EFI Shell
Enter Setup
↑ and ↓ to move selection
ENTER to select boot device
ESC to boot using defaults



Note: Loading HUU ISO can take several minutes.

Step 4. Reimage Current Version

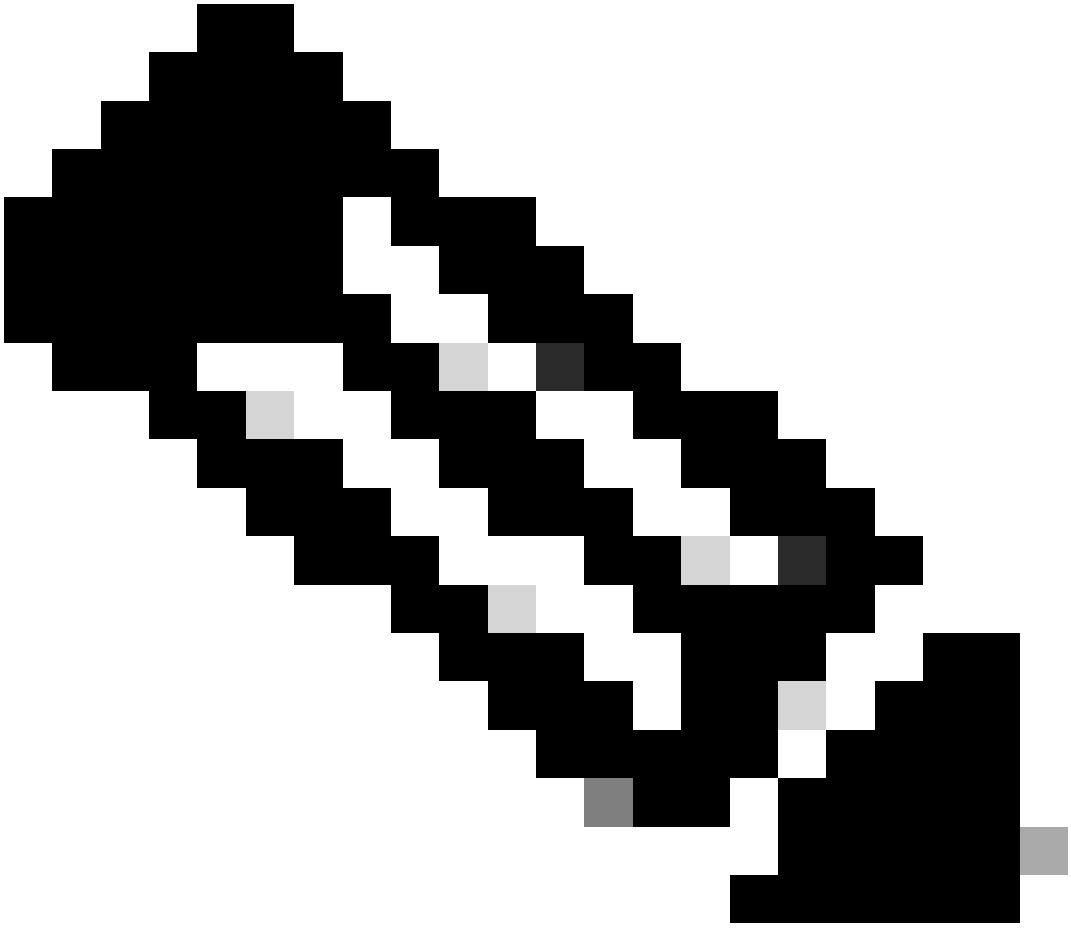
Wait until HUU ISO loads and accepts the Cisco Software License Agreement.



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

Wait until it finishes the reimage and the server reboots.

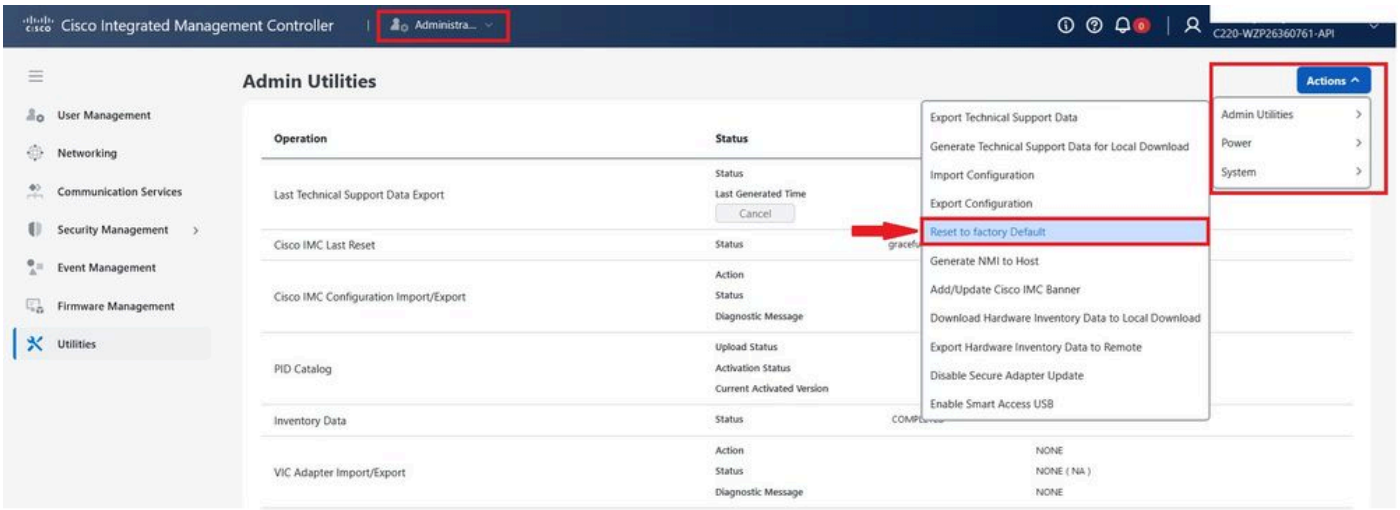
Integrate Server to Cisco Intersight

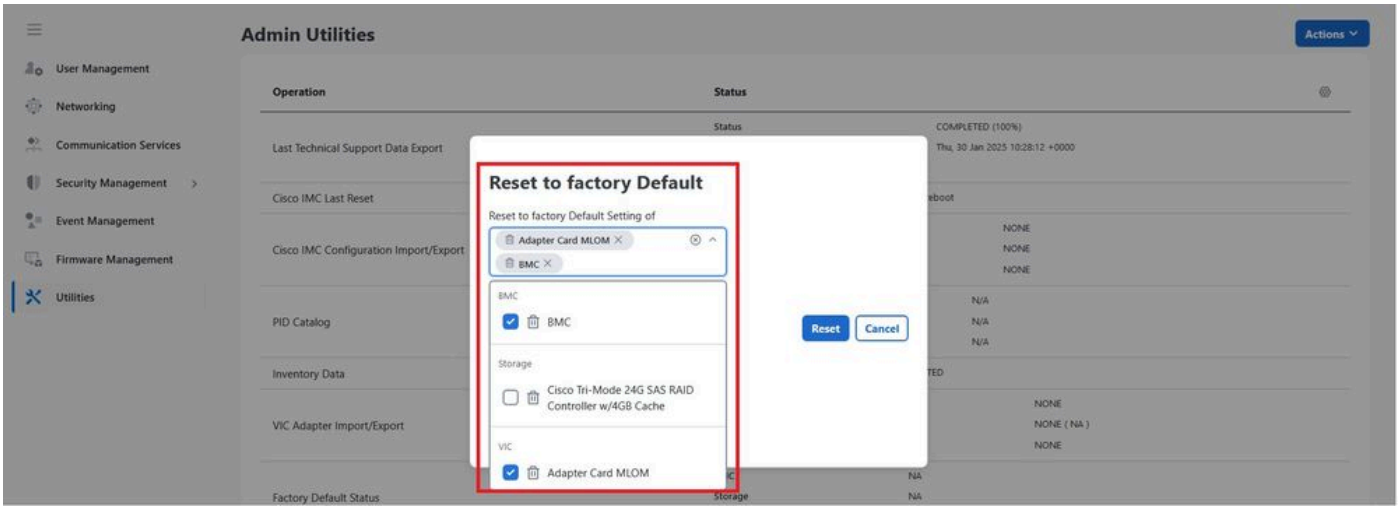


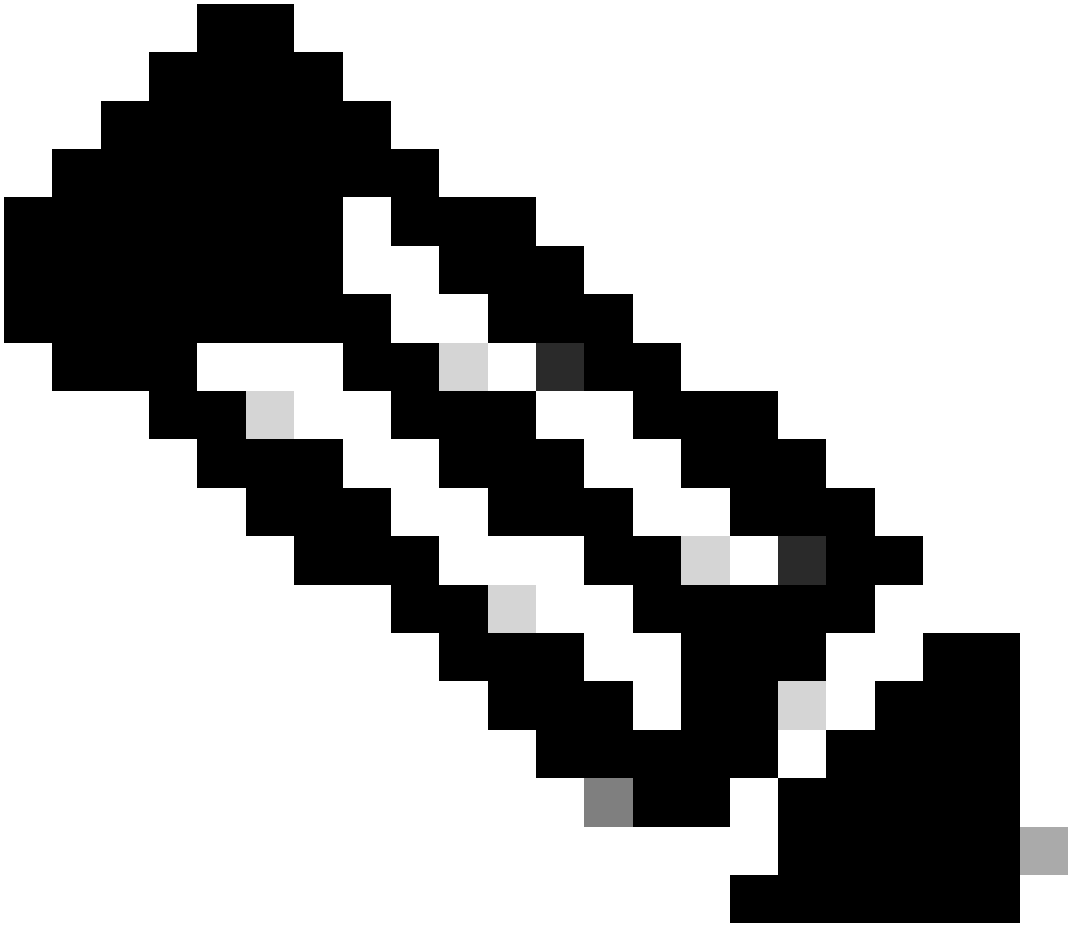
Note: Before integrating the server to Intersight, it is important to Reset **CIMC** and **VIC adapter** into factory Default settings so that they can be properly configured.

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
Admin Utilities
User Management
Networking
Communication Services
Security Management
Event Management
Firmware Management
Utilities
Actions
Admin Utilities
Power
System
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
Operation
Status
Last Technical Support Data Export
Cisco IMC Last Reset
Cisco IMC Configuration Import/Export
PID Catalog
Inventory Data
VIC Adapter Import/Export
Factory Default Status
Cancel
NONE
NONE (NA)


Admin Utilities
Actions
Reset to factory Default
Reset to factory Default Setting of
Adapter Card MLOM
BMC
Storage
Cisco Tri-Mode 24G SAS RAID Controller w/4GB Cache
VIC
Adapter Card MLOM
Reset
Cancel

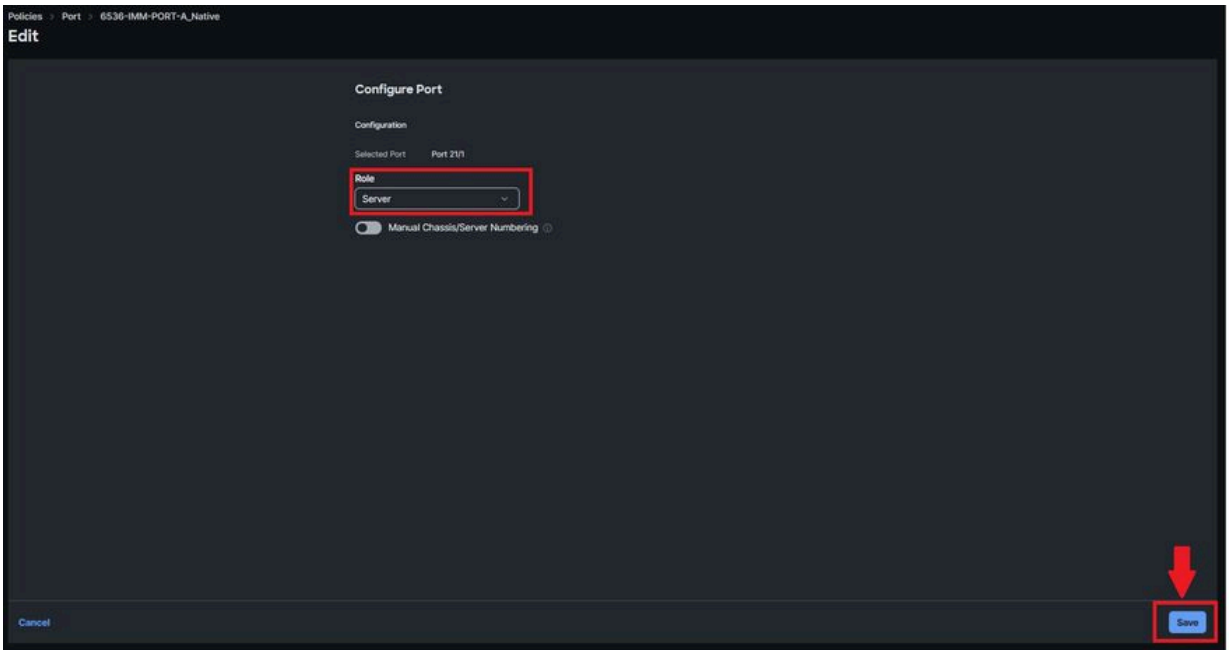


Note: It is not required to reset to default Storage devices. If selected, it erases the Virtual Drives and the data written to the Disks.

Step 2. Reconfigured Ports As Server Ports

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

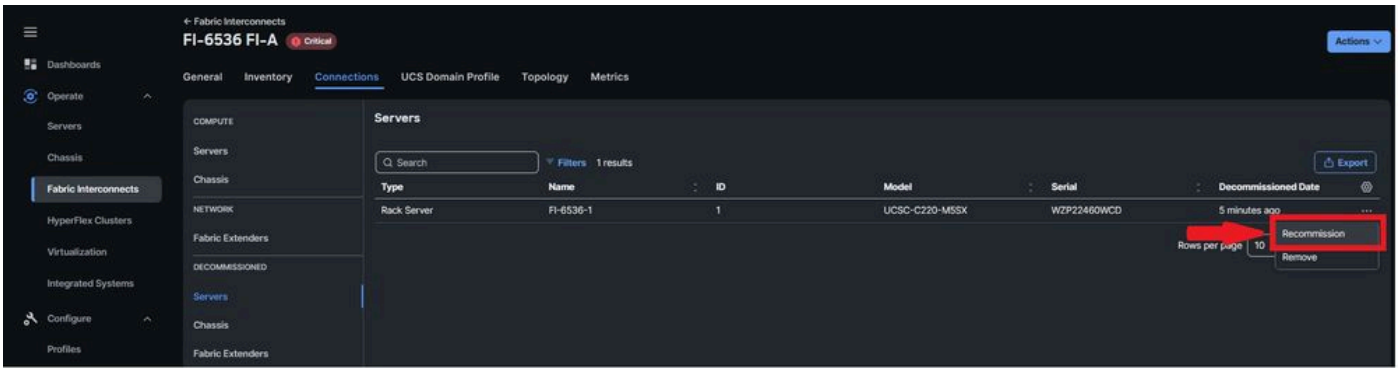
In **Port Roles** tab. Select the **previous ports** that were configured as **Unconfigured** state. Click **Configure** and select the port role as **Server port**. Save the changes and re-deploy the **domain profile**, repeat the same procedure on Fabric Interconnect B.



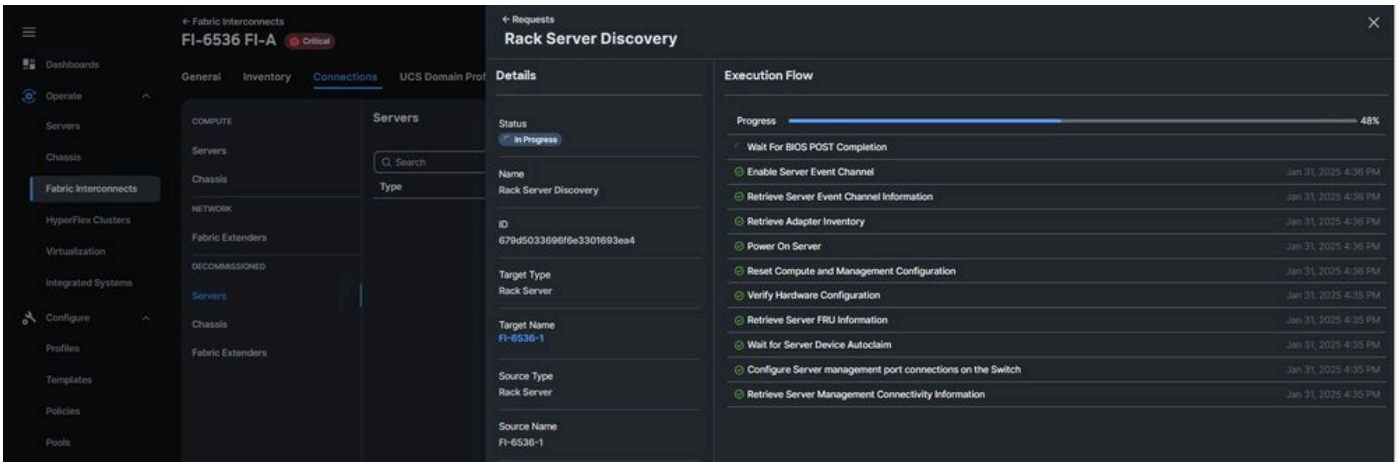
Connect the required ports from the Network Adapter to the Fabric Interconnects ports.

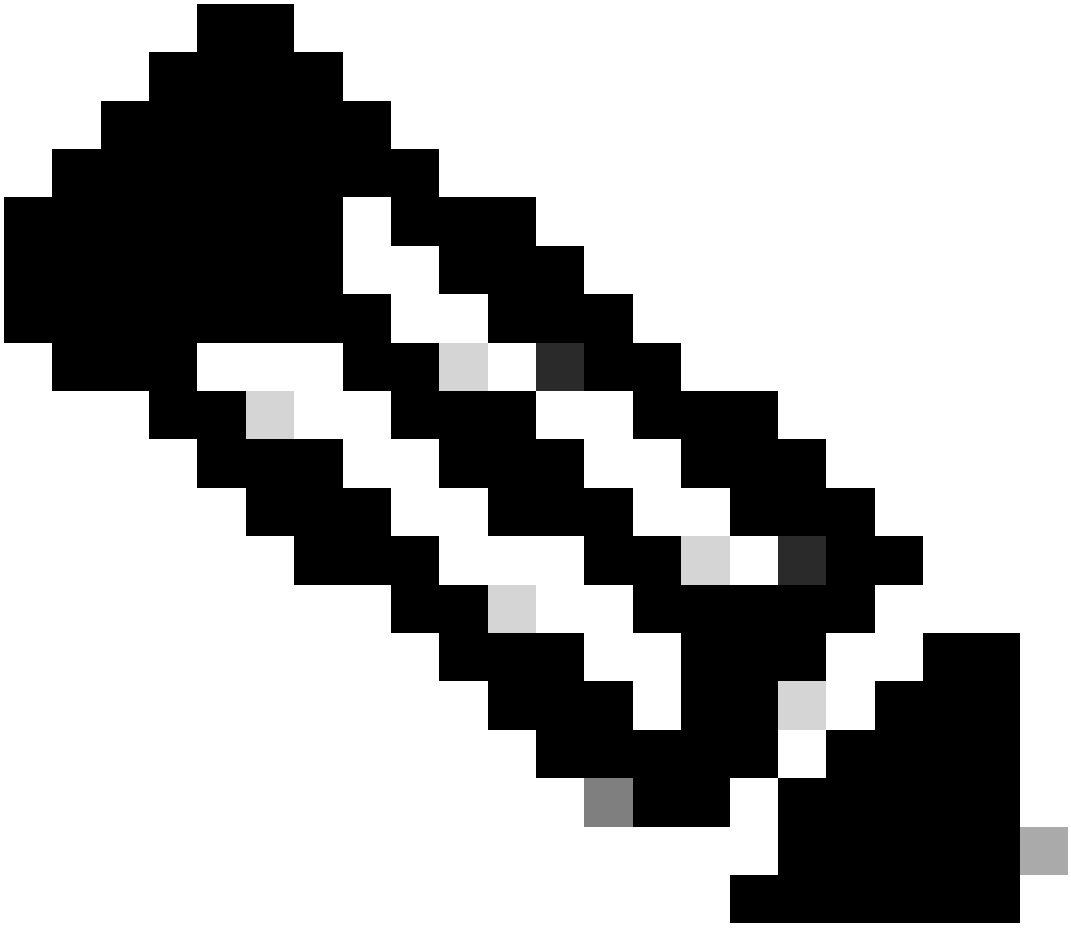
Step 3. Recommission The Server

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    Chassis    Remote      Chassis                       Module            Adapter Mode
 ID Port      Port State  Uplink  Model      Serial         Model           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