Configure Integrated UCS C-Series Servers to Standalone Mode

Contents

Introduction

This document describes how to configure a UCS-C Series server integrated into UCS Manager to standalone mode and reimage its firmware version.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Basic understanding of Unified Computing Systems servers(UCS)
- Basic understanding of UCS Manager (UCSM)
- Basic understanding of Cisco Integrated Management Controller (CIMC)
- Basic understanding of Networking.

Components Used

This document is not restricted to specific software versions.

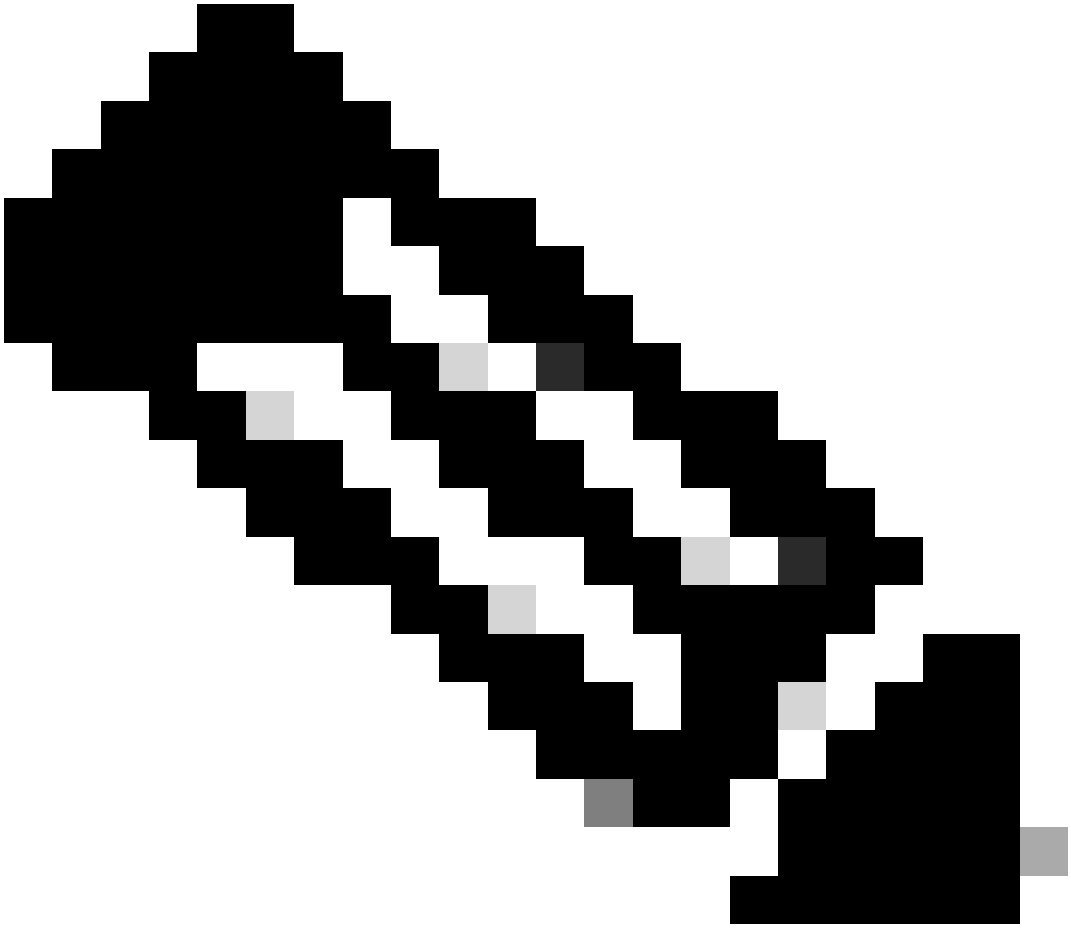
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

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

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

Configure



Note: Do not perform this process without TAC recommendation.

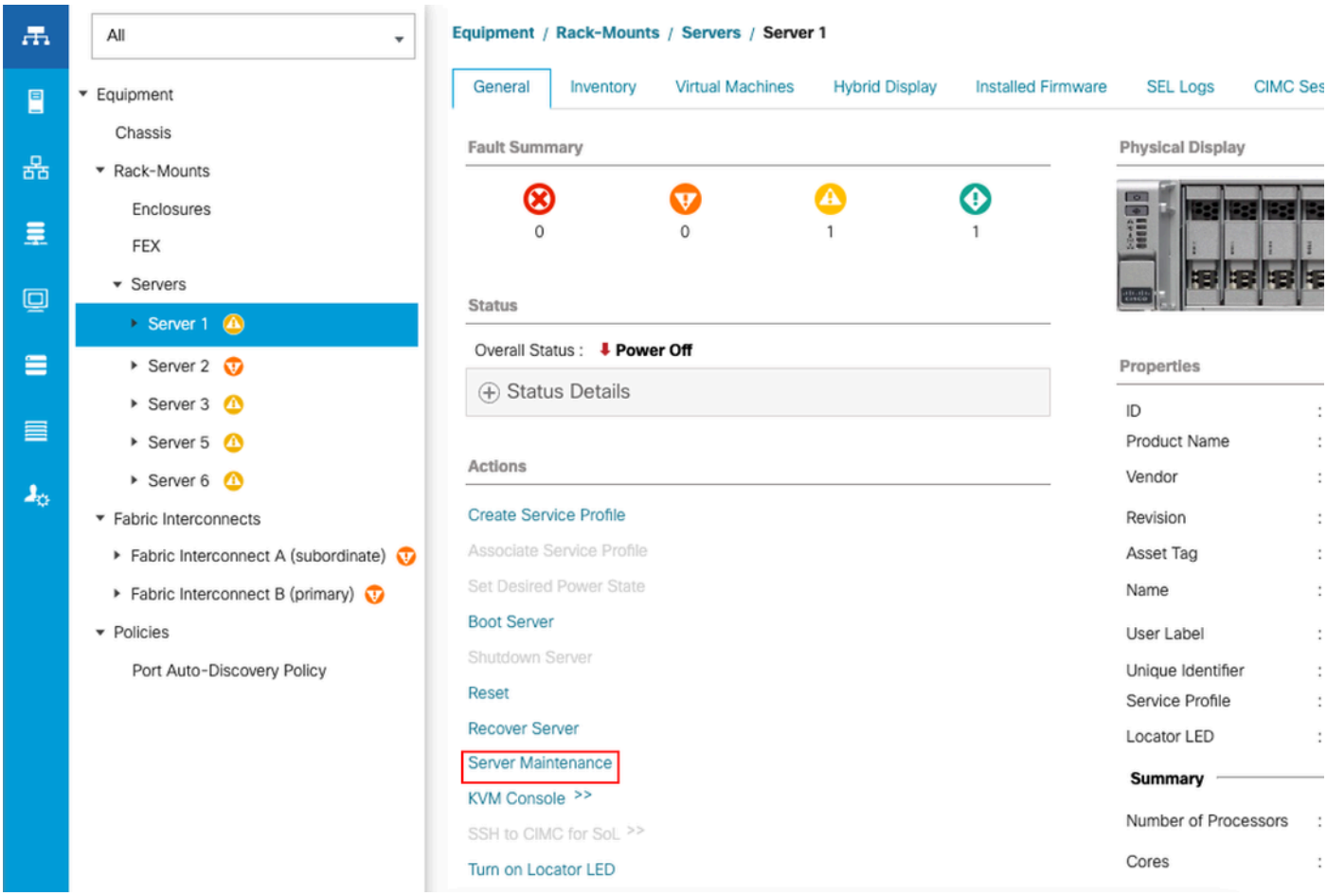
Put Server in Standalone Mode

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

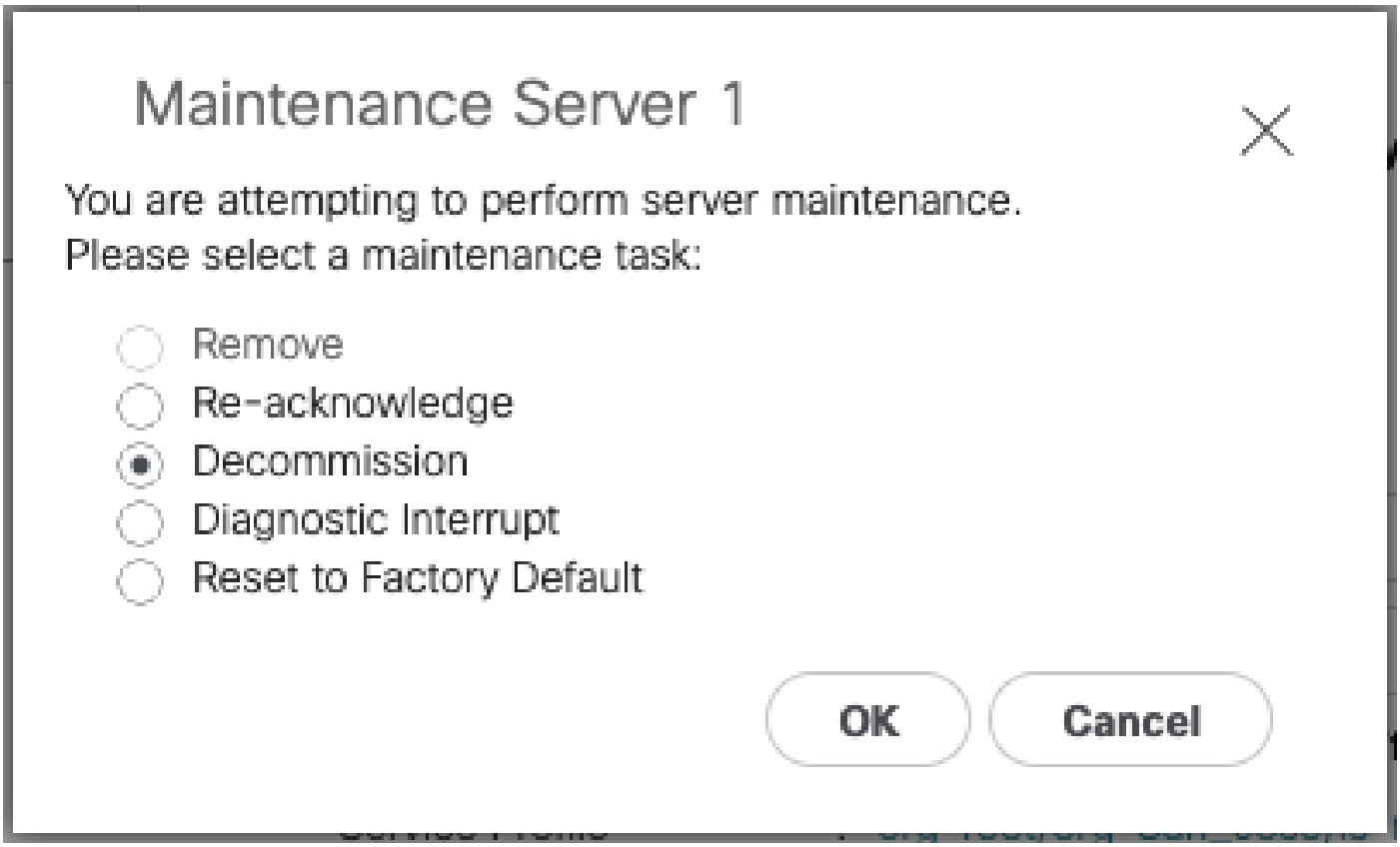
Step 1. Decommission the Server

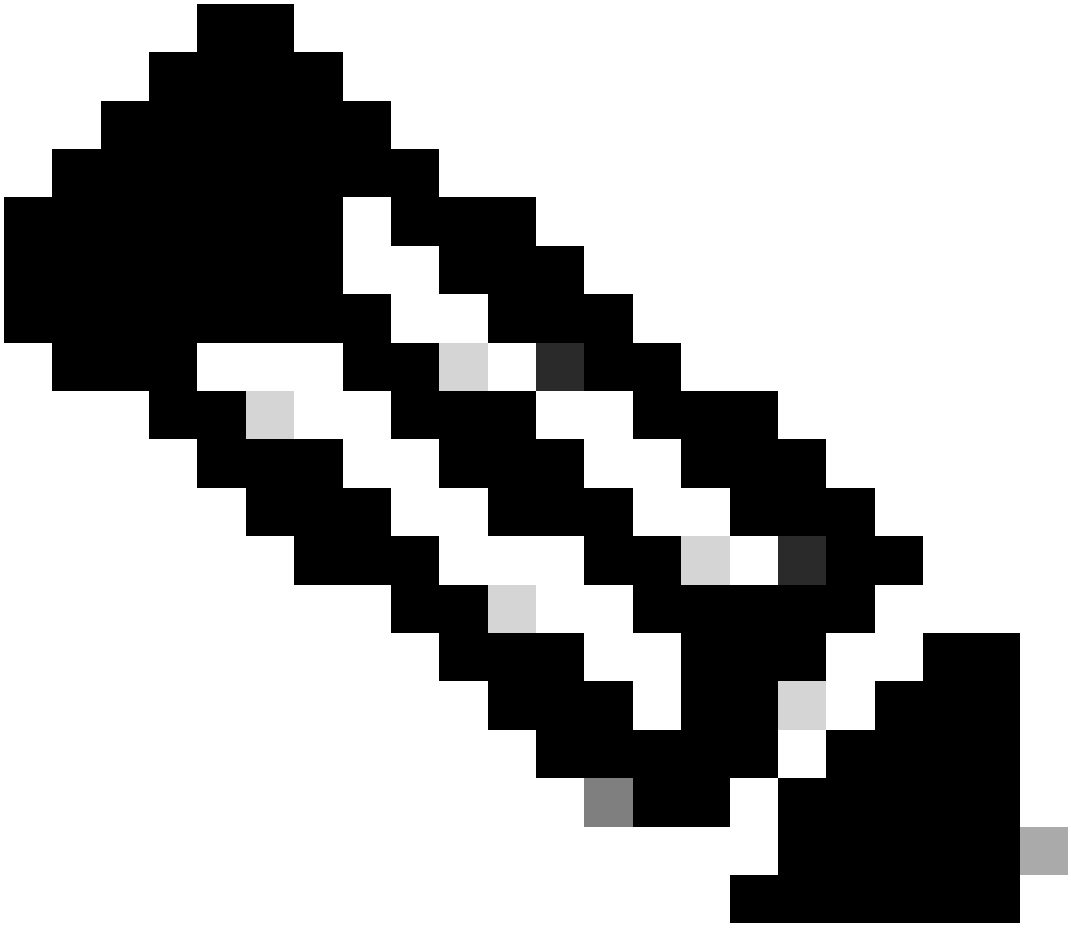
Go to your UCS Manager web Interface.

Navigate to **Equipment** > **Rack-Mounts** > **Server x**



Click on **Server Maintenance** and select **Decommission**



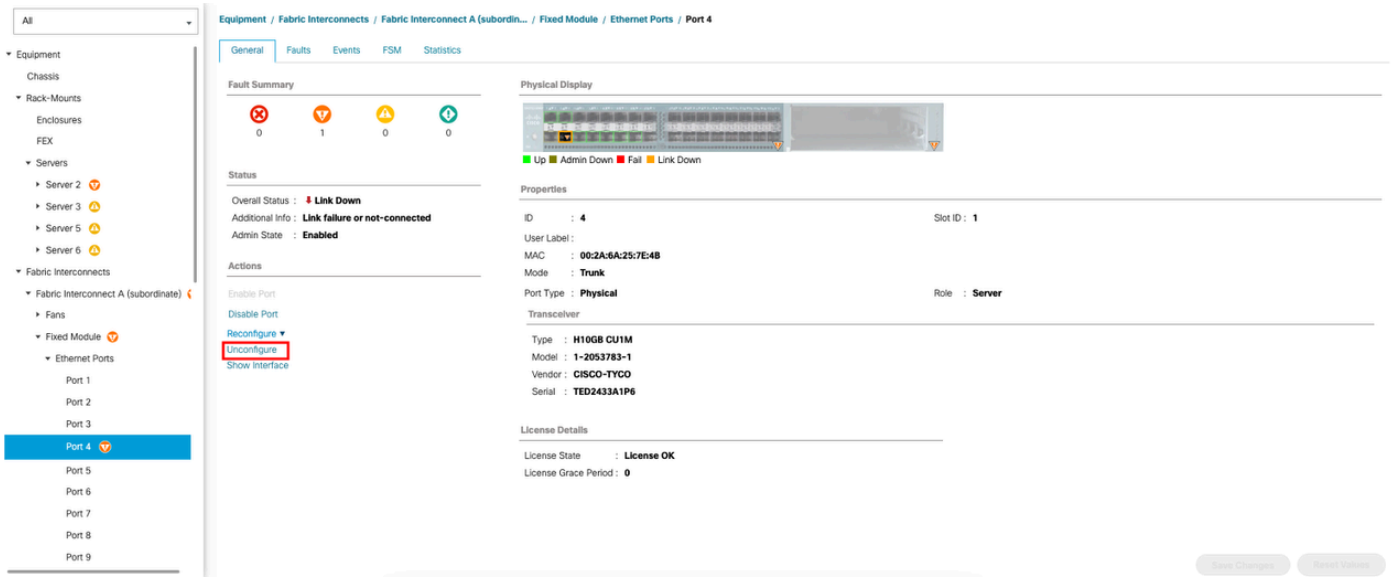


Note: When a server is decommissioned it is not shown over Rack-Mounts, it is shown under **Equipment > Decommisioned > Rack-Mounts**

Step 2. Unconfigure Server Ports

Navigate to **Equipment** > **Fabric Interconnects** > **Fabric Interconnect A** > **Fixed Module** > **Ethernet Ports** > **Port x**.

Click on **Unconfigure**.



Repeat the same steps for Fabric Interconnect B

Navigate to **Equipment** > **Fabric Interconnects** > **Fabric Interconnect B** > **Fixed Module** > **Ethernet Ports** > **Port x**.

Click on **Unconfigure**.

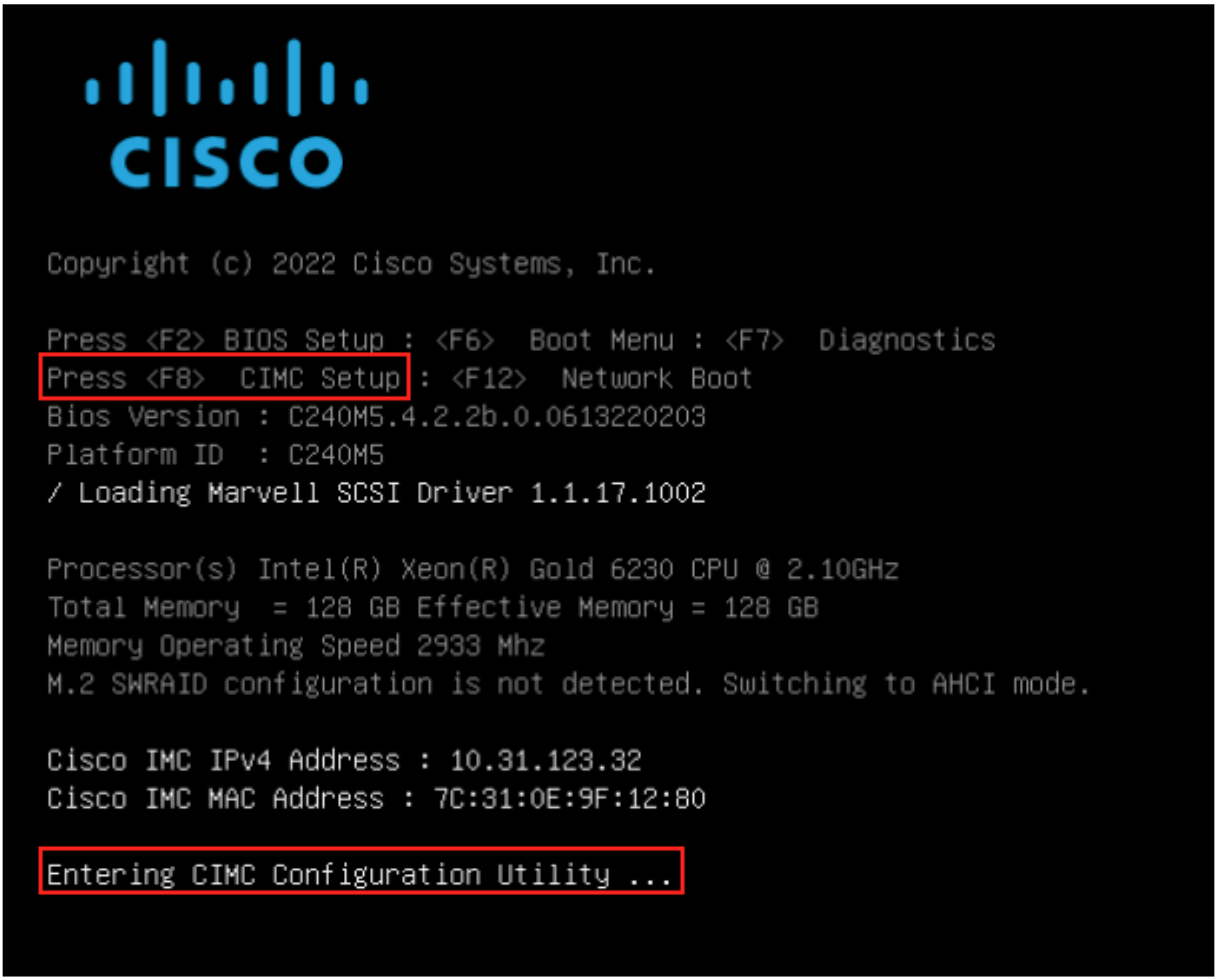
Step 3. Change CIMC to Default Settings

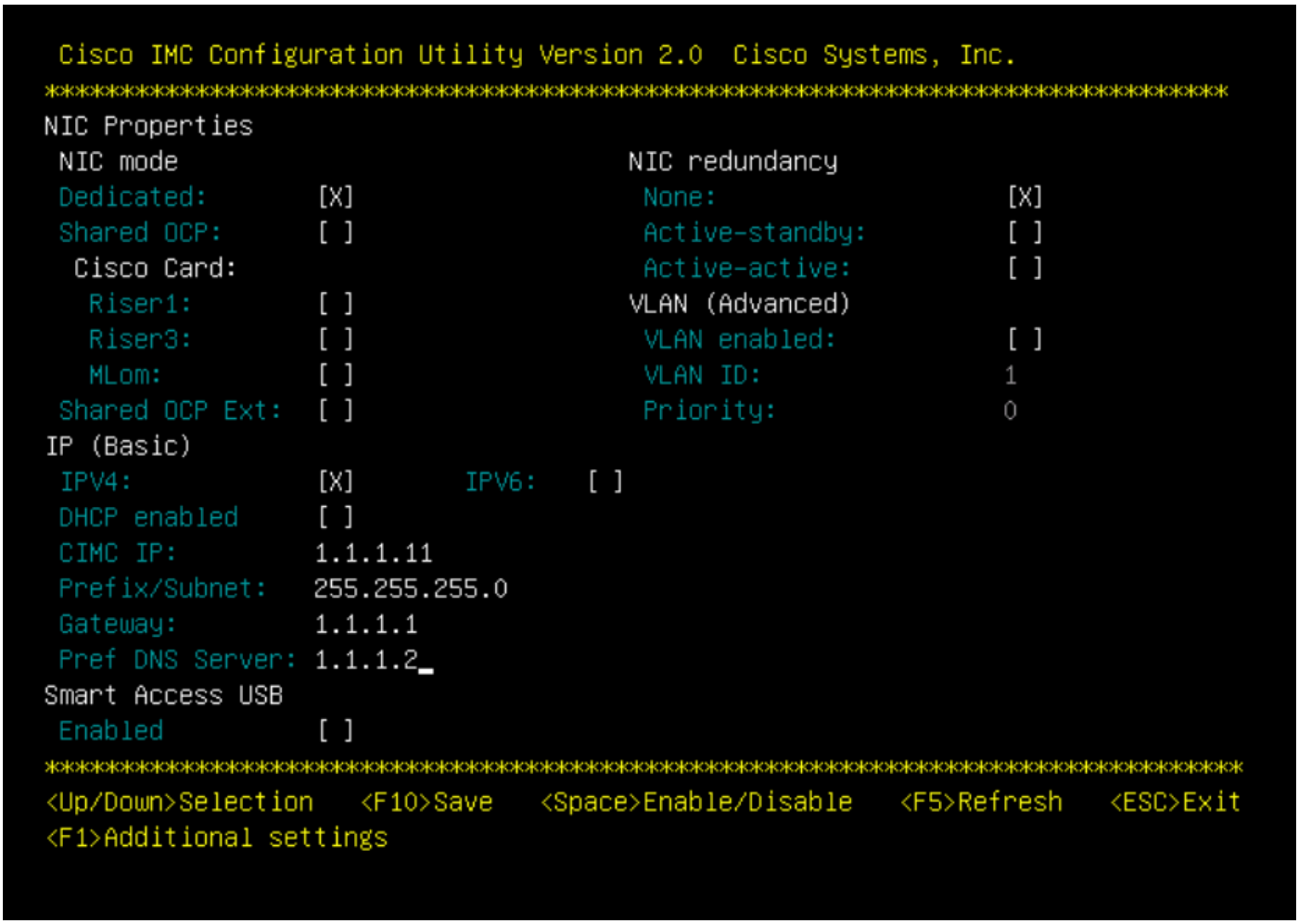
Power off the server and remove the power cords.

Wait for 2 minutes and connect the power cords again.

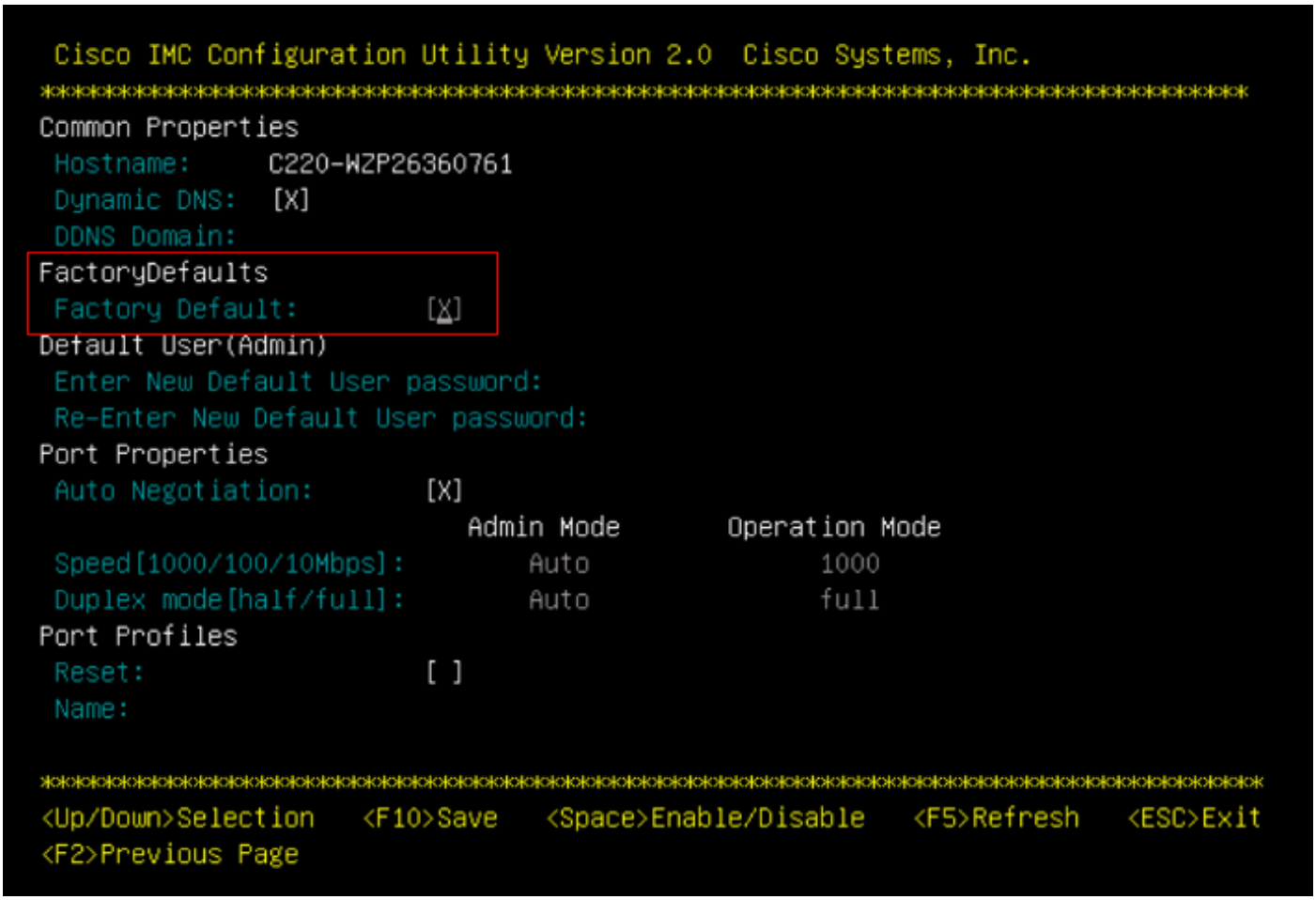
Connect a KVM cable to the server with a monitor and keyboard.

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


Copyright (c) 2022 Cisco Systems, Inc.
Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics
Press <F8> CIMC Setup : <F12> Network Boot
Bios Version : C240M5.4.2.2b.0.0613220203
Platform ID : C240M5
/ Loading Marvell SCSI Driver 1.1.17.1002
Processor(s) Intel(R) Xeon(R) Gold 6230 CPU @ 2.10GHz
Total Memory = 128 GB Effective Memory = 128 GB
Memory Operating Speed 2933 Mhz
M.2 SWRAID configuration is not detected. Switching to AHCI mode.
Cisco IMC IPv4 Address : 10.31.123.32
Cisco IMC MAC Address : 7C:31:0E:9F:12:80
Entering CIMC Configuration Utility ...



Press F1 and enable **Factory Default.**



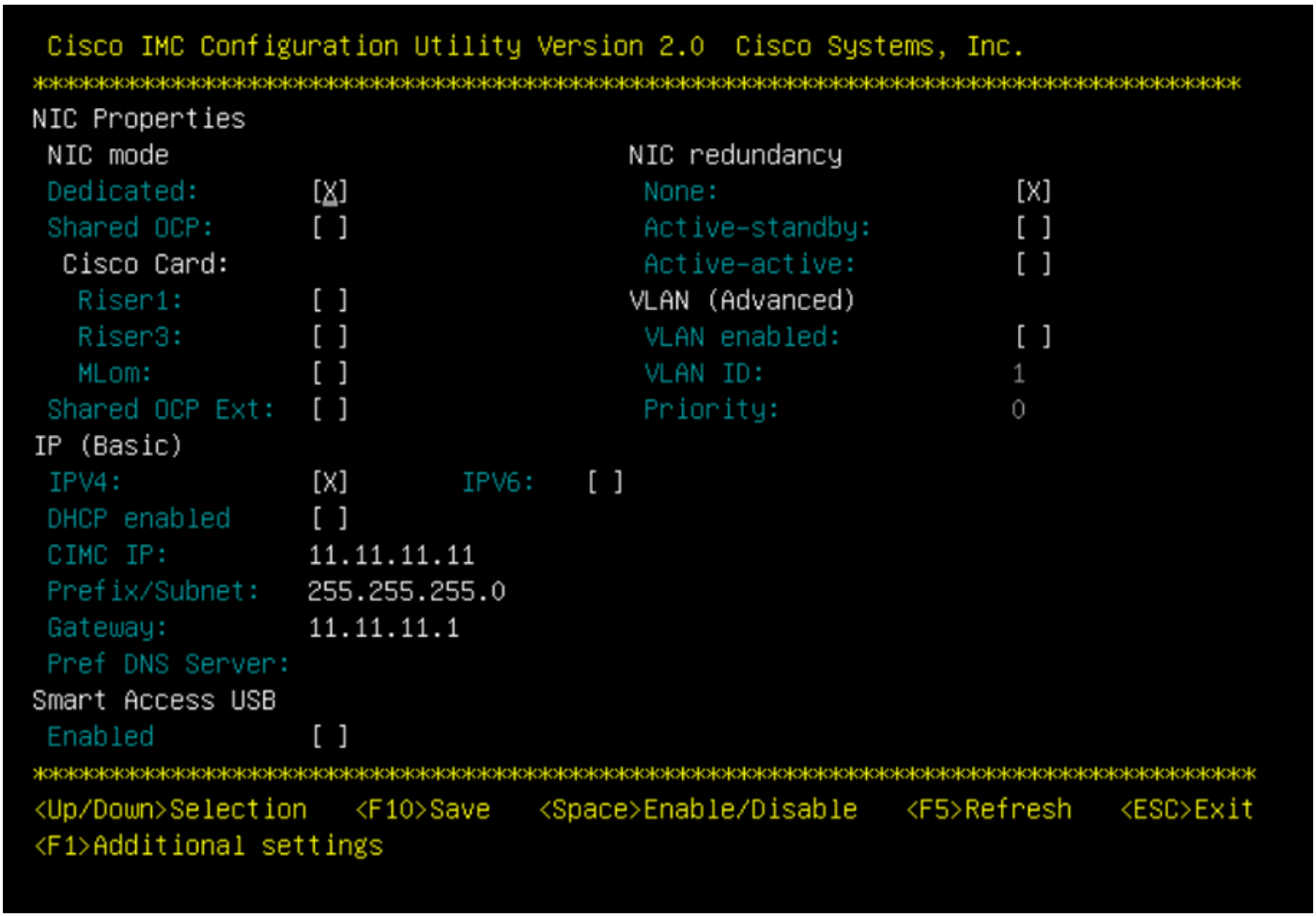
Press **F10** to save changes and reboot the server.

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:

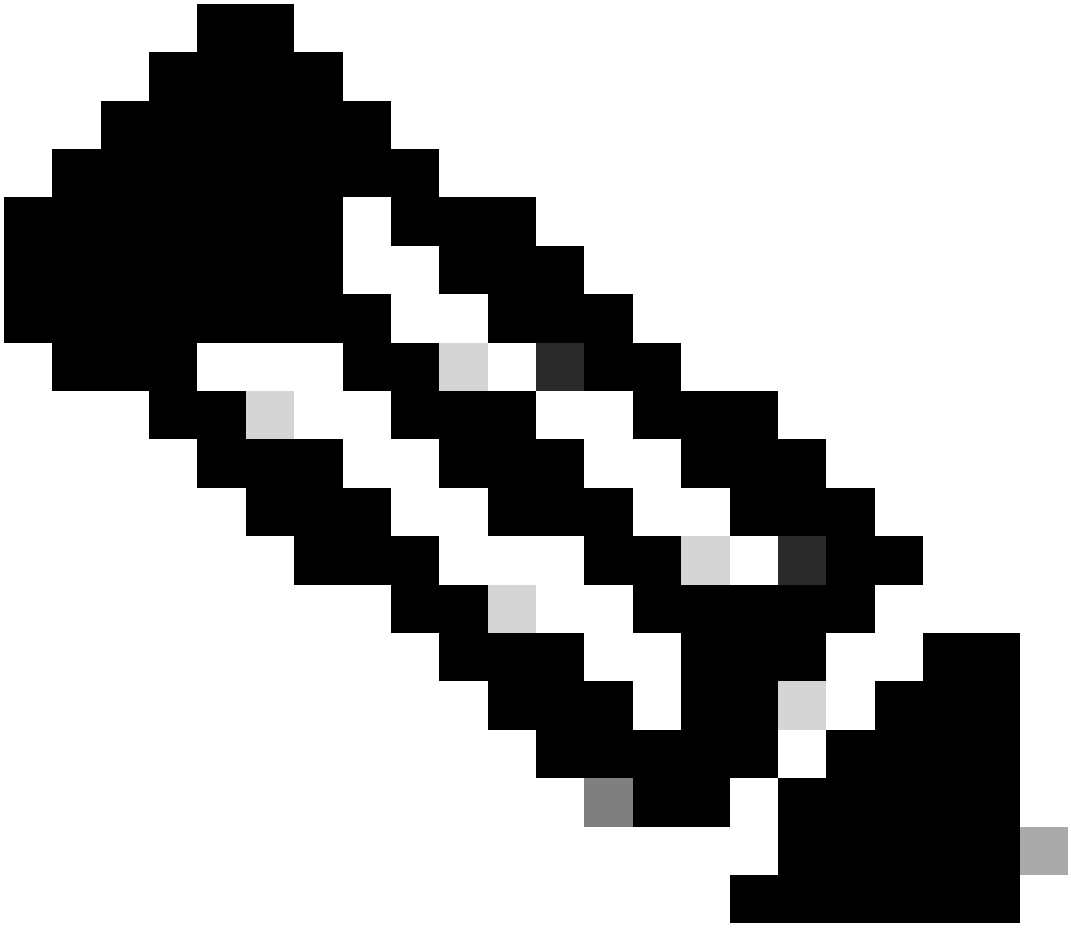
- NIC mode selected to Dedicated
- IP to IPV4
- CIMC IP with an IP in the same subnet as your computer.
- NIC redundancy to none
- No VLAN



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

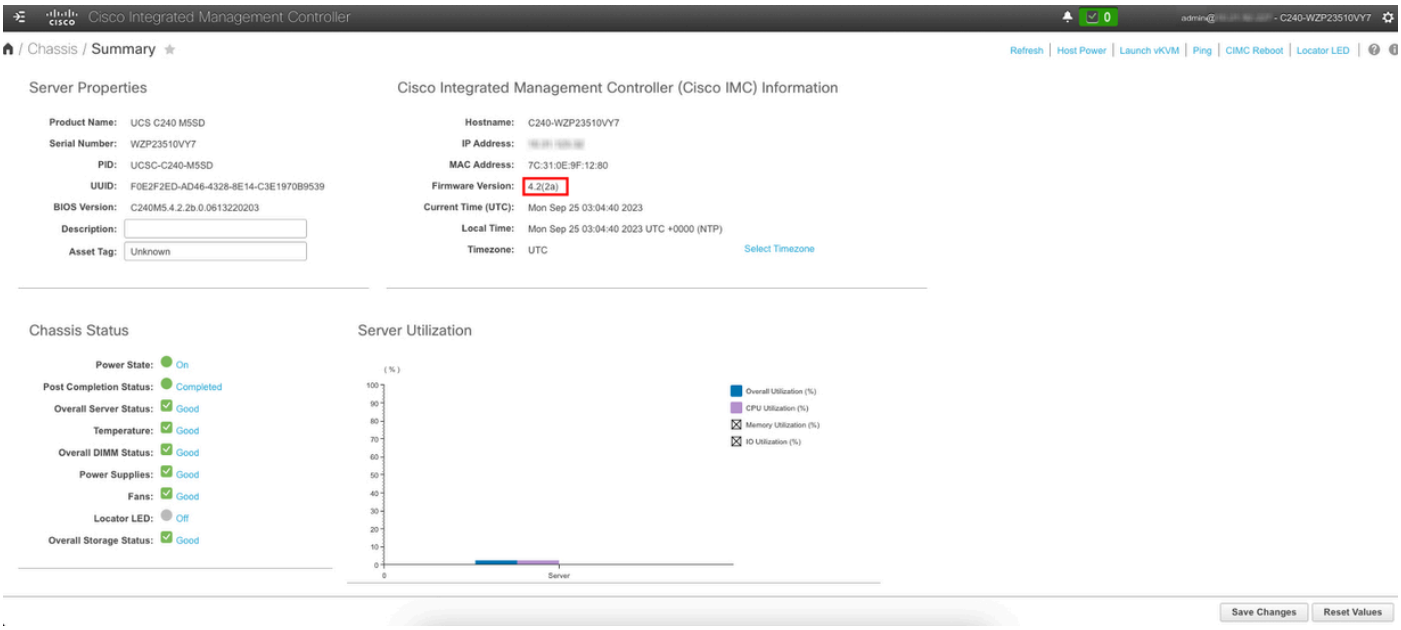
Connect your computer to the physical Management Port on the server and open a web browser.

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

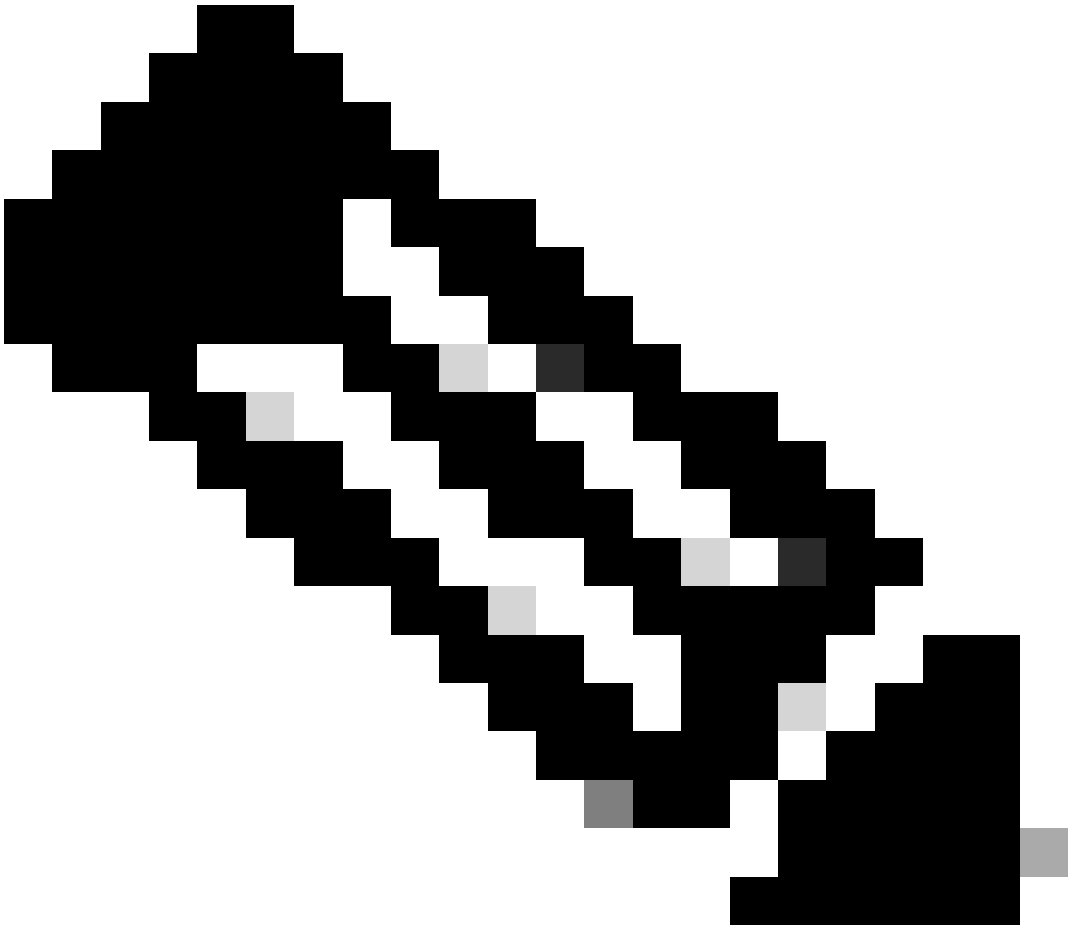


Note: Default password for **admin** user is **password**

CIMC Prompt view and current CIMC version



Reimage Firmware Version



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

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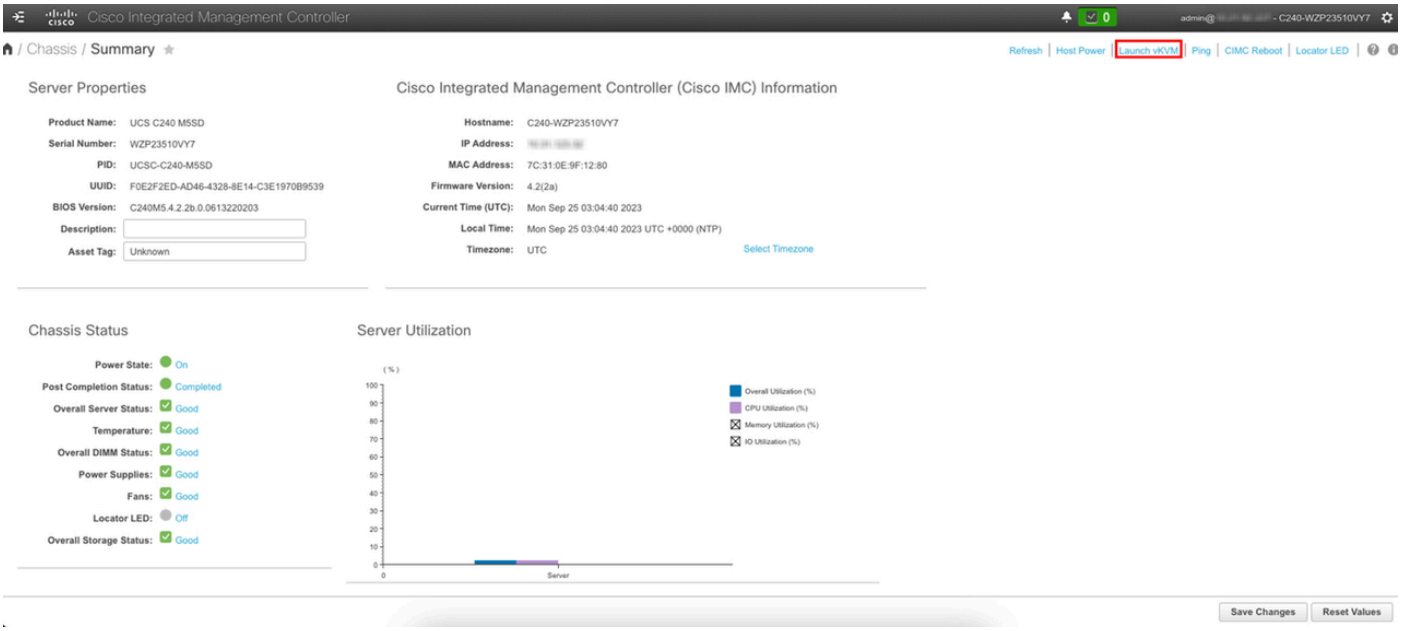
Step 1. Download Host Upgrade Utility(HUU) ISO.

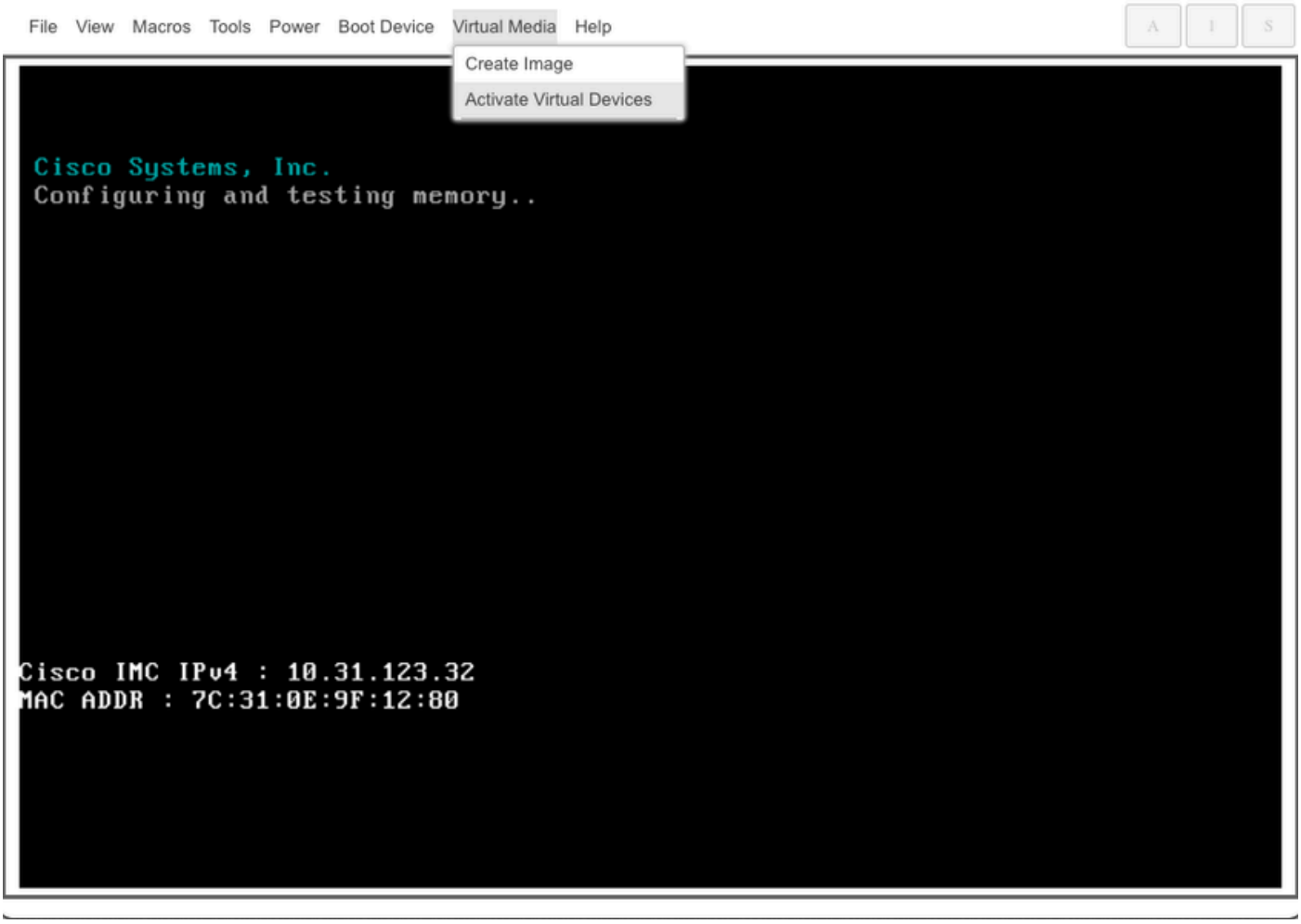
Reimage is done through HUU. You can download HUU ISO at Download Page for Cisco

Step 2. Launch KVM and Map HUU ISO.

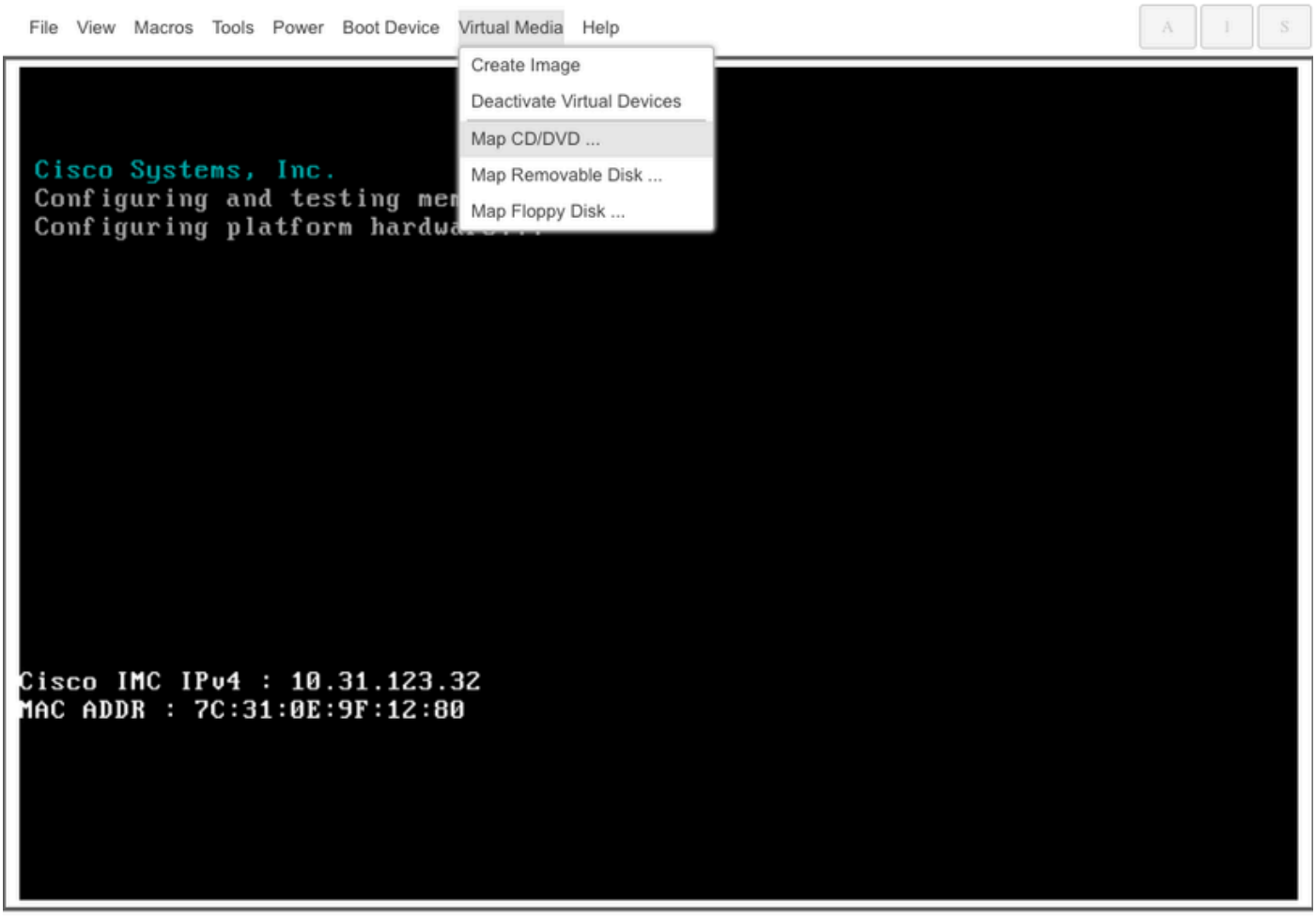
Once you download HUU for the current version, go to CIMC and click on **Launch KVM**



Once vKVM is launched, click on **Virtual Media** and **Activate Virtual Devices**

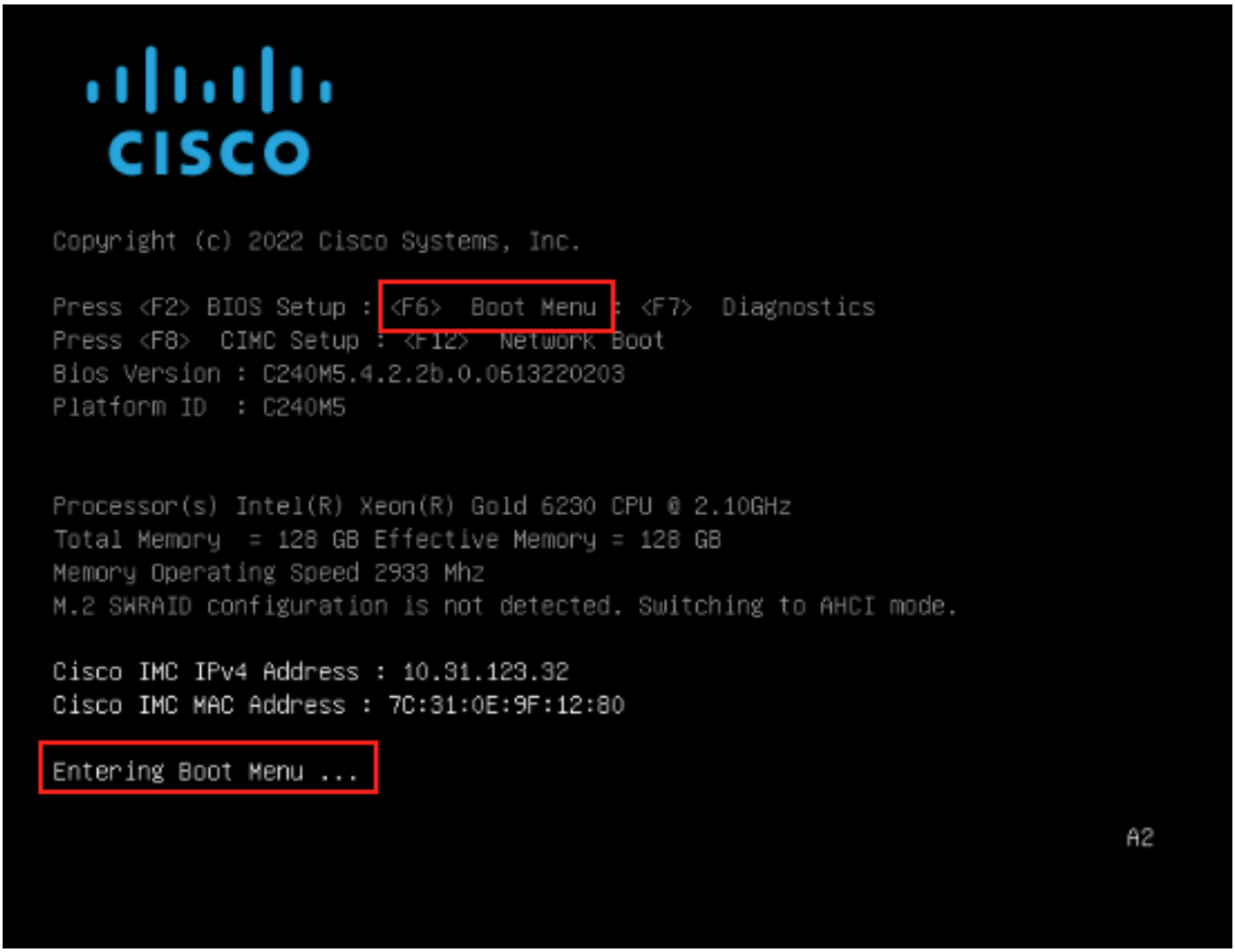


Map HUU on **Map CD/DVD**

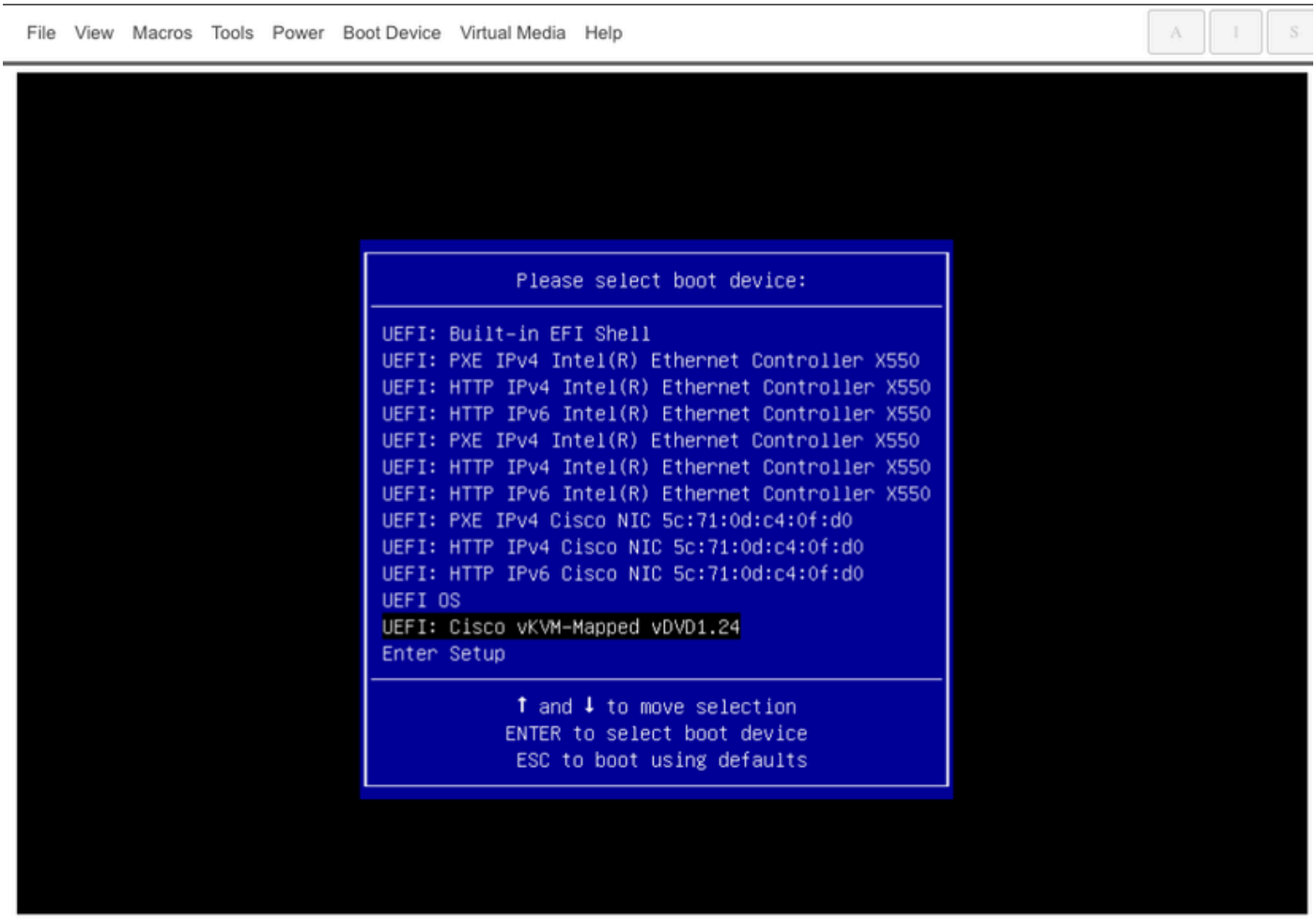


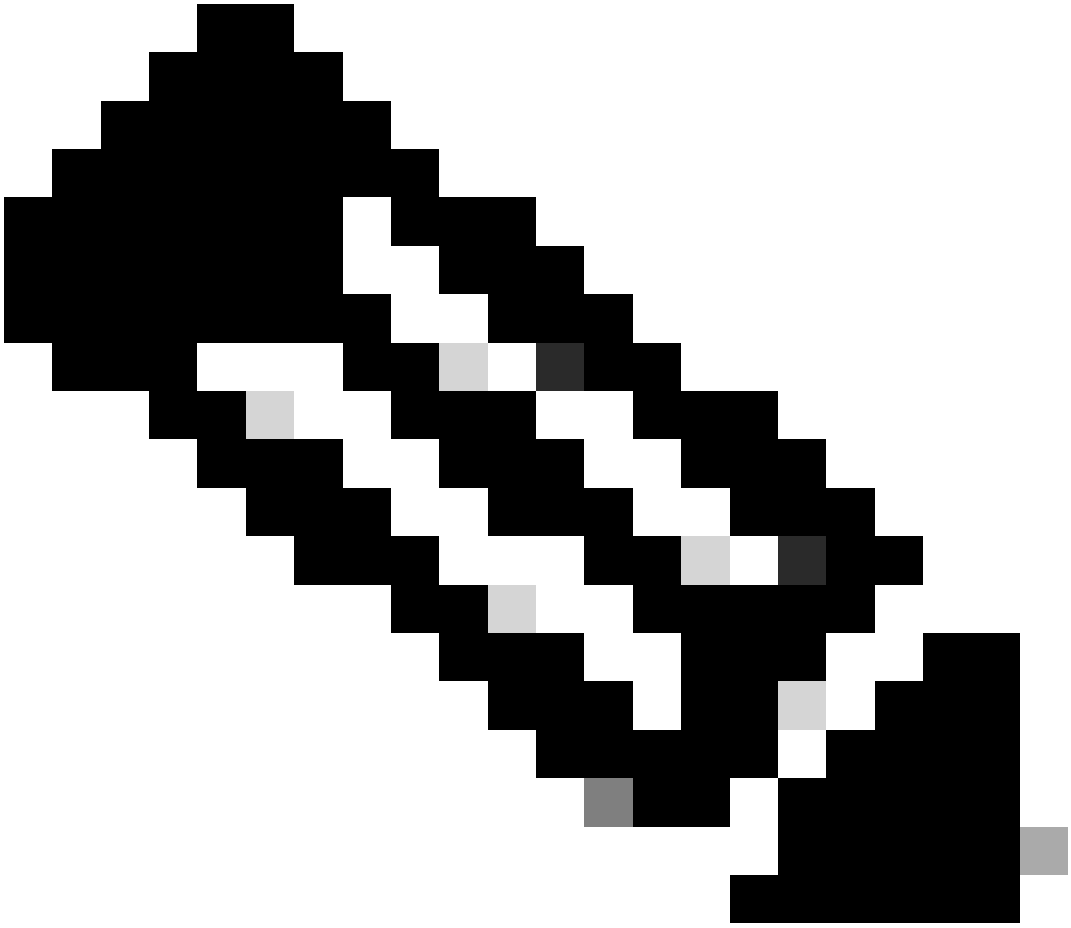
Step 3. Boot Using HUU ISO.

Monitor the server 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.

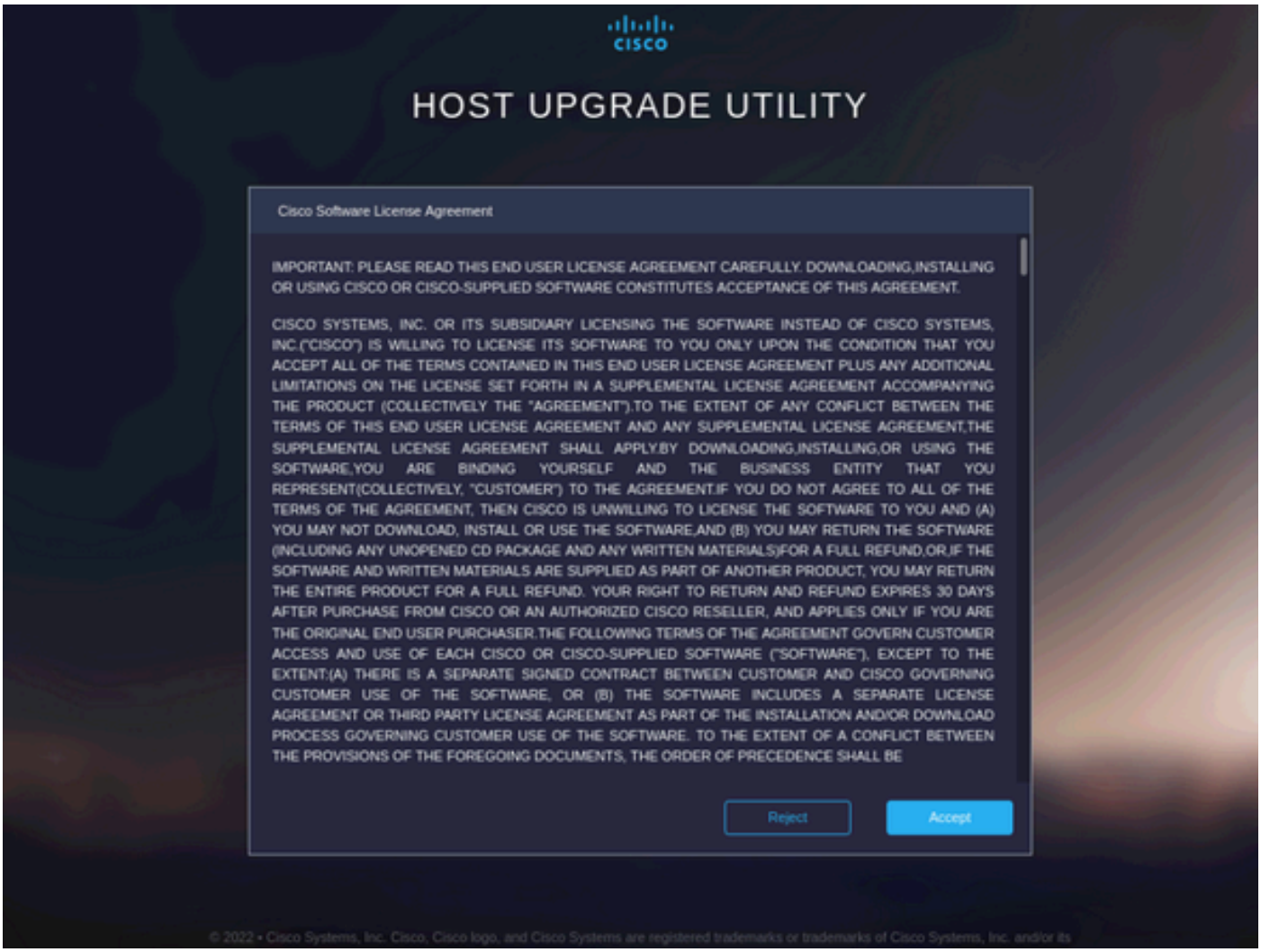

File View Macros Tools Power Boot Device Virtual Media Help
Please select boot device:
UEFI: Built-in EFI Shell
UEFI: PXE IPv4 Intel(R) Ethernet Controller X550
UEFI: HTTP IPv4 Intel(R) Ethernet Controller X550
UEFI: HTTP IPv6 Intel(R) Ethernet Controller X550
UEFI: PXE IPv4 Intel(R) Ethernet Controller X550
UEFI: HTTP IPv4 Intel(R) Ethernet Controller X550
UEFI: HTTP IPv6 Intel(R) Ethernet Controller X550
UEFI: PXE IPv4 Cisco NIC 5c:71:0d:c4:0f:d0
UEFI: HTTP IPv4 Cisco NIC 5c:71:0d:c4:0f:d0
UEFI: HTTP IPv6 Cisco NIC 5c:71:0d:c4:0f:d0
UEFI OS
UEFI: Cisco vKVM-Mapped vDVD1.24
Enter Setup
↑ and ↓ to move selection
ENTER to select boot device
ESC to boot using defaults



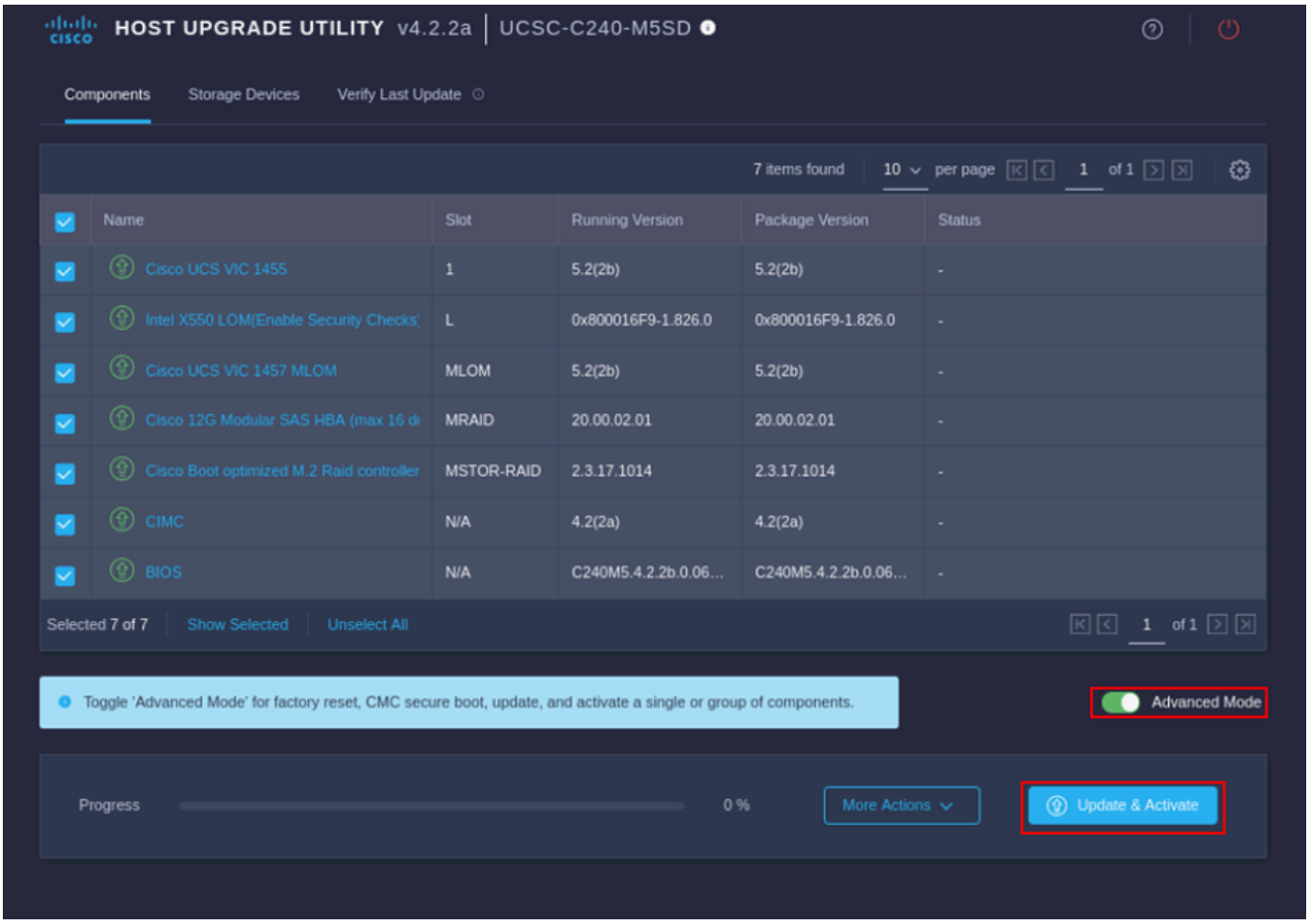
Note: Load HUU ISO can take several minutes.

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 UCS Manager

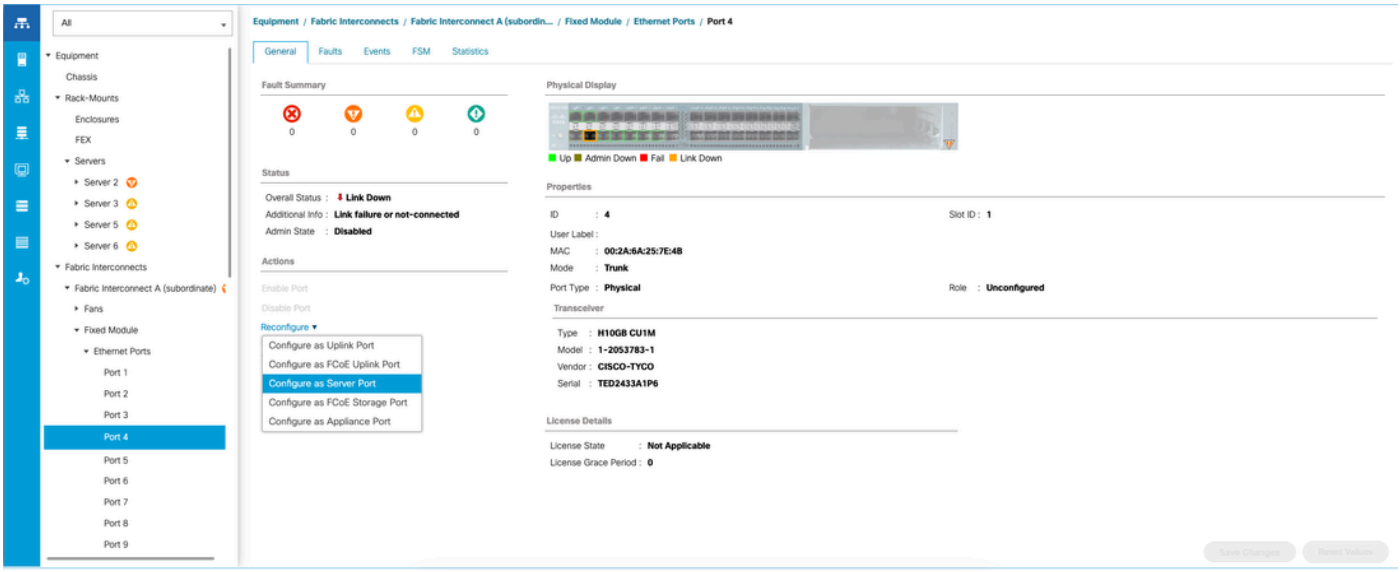
Step 1. Set CIMC to Factory Default.

Repeat the same steps as in **Step 3** on **Put Server in Standalone Mode**

Step 2.- Reconfigured Ports as Server Ports

Navigate to **Equipment** > **Fabric Interconnects** > **Fabric Interconnect A** > **Fixed Module** > **Ethernet Ports** > **Port x**.

Click **Reconfigure** and select **Configured as Server Port.**



Repeat the same steps for Fabric Interconnect B

Navigate to **Equipment** > **Fabric Interconnects** > **Fabric Interconnect B** > **Fixed Module** > **Ethernet Ports** > **Port x**.

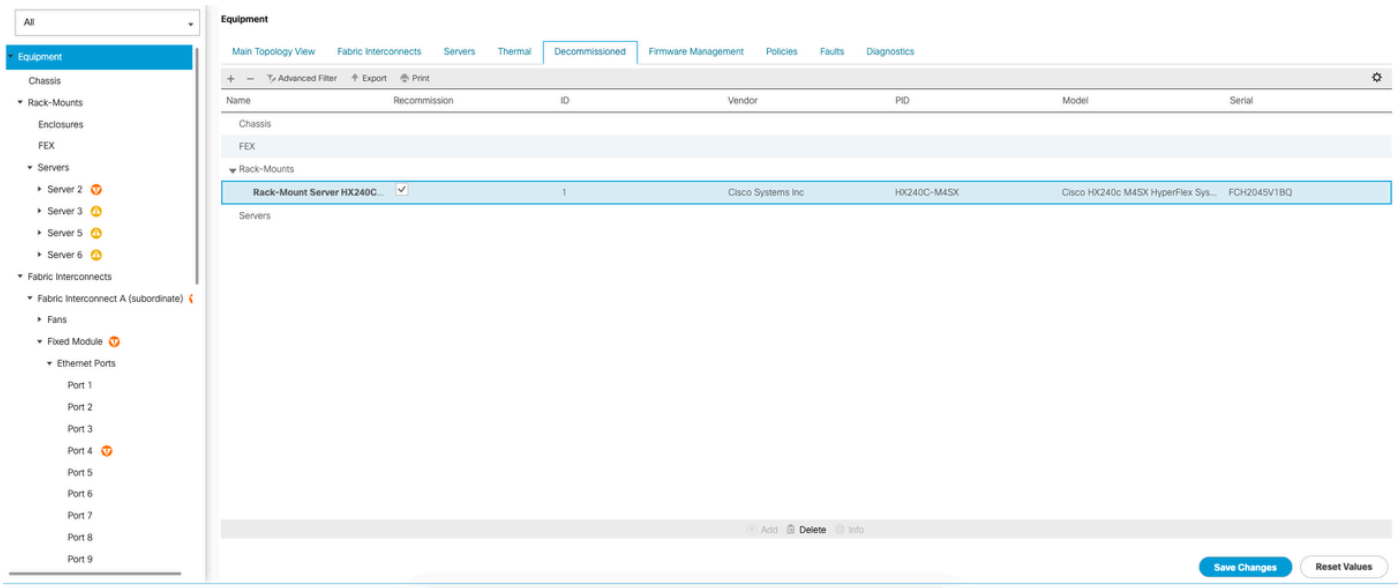
Click **Reconfigure** and select **Configured as Server Port.**

Step 3. Connect Adapter Cables

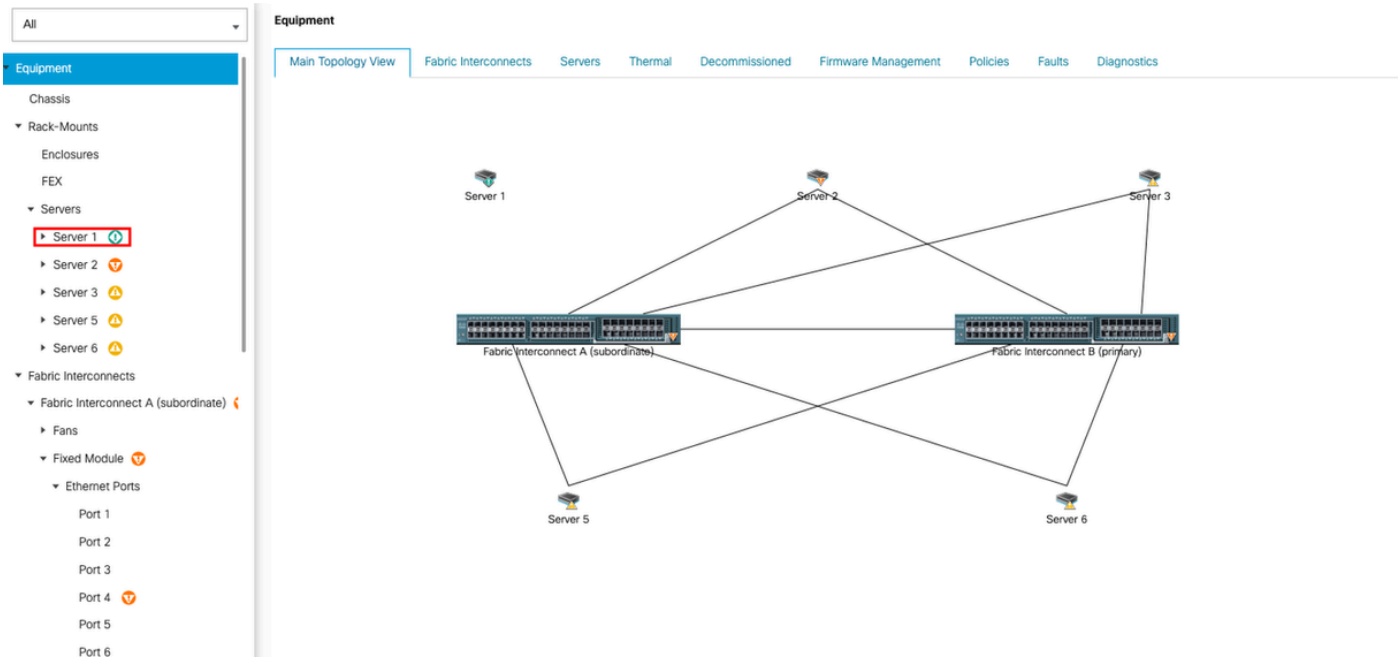
Connect port 1 to FI-A and port 3 to FI-B of the VIC Card.

Step 4. Recommission Server.

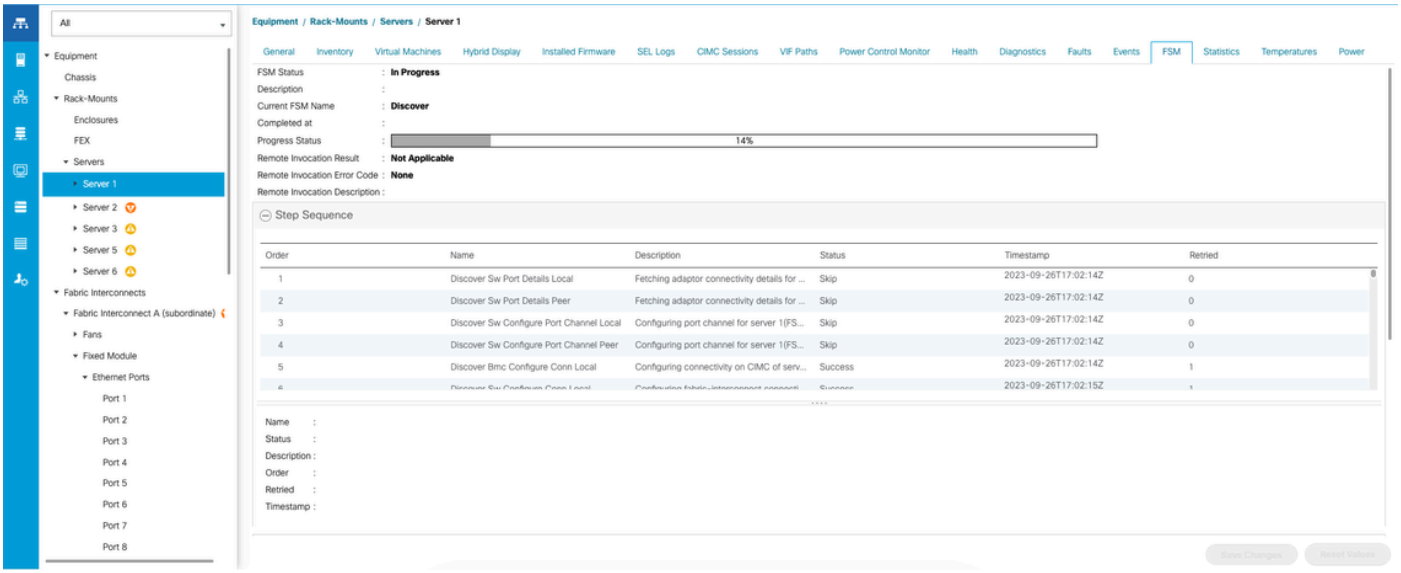
Go to **Equipment > Decommsioned > Rack-Mounts,** select the checkbox for **Recommission,** and **Save Changes.**



Wait until you see your server again.

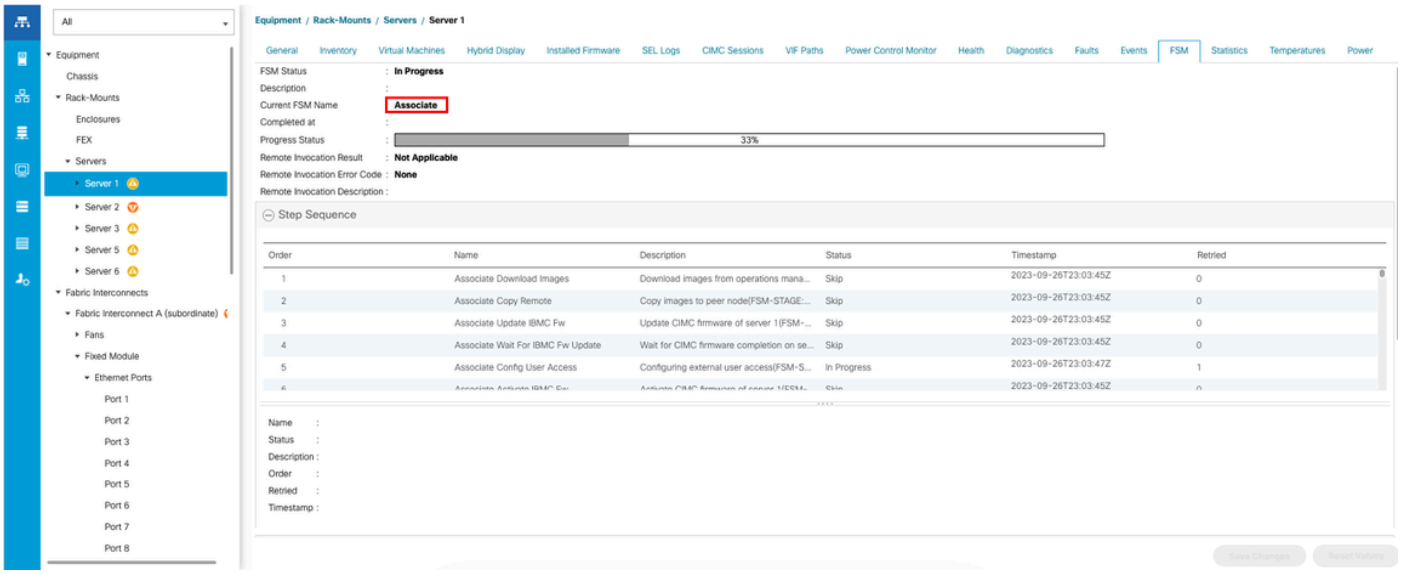


You can monitor server discovery over Server FSM.



Note: Discovery can take several minutes to start

Once the server finishes the discovery process, the association of the Service Profile (SP) starts.



After discovery and association finish, you can boot your server and get it back to production.

Related Information

- UCS C-Series Integration with Cisco UCS Manager
- UCS C-Series Server Utilities
- Technical Support & Documentation - Cisco Systems