

# Configure Integrated UCS C-Series Servers to Standalone Mode

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## 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.

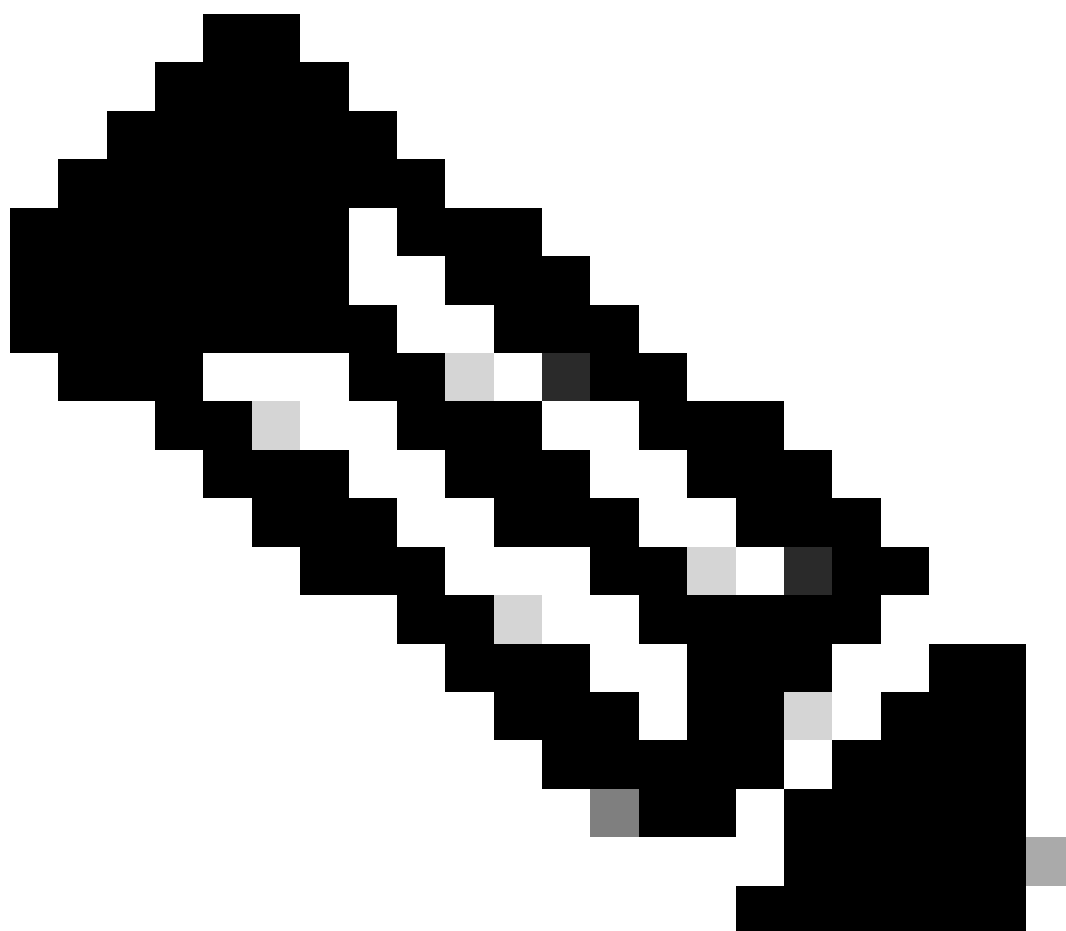
## Background Information

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

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**Note:** Do not perform this process without TAC recommendation.

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## Put Server in Standalone Mode

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

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### Step 1. Decommission the Server

Go to your UCS Manager web Interface.

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

The screenshot shows a web-based server management interface. On the left is a navigation sidebar with a tree view containing categories like Equipment, Rack-Mounts, Servers, Fabric Interconnects, and Policies. 'Server 1' is selected under the Servers category. The main content area is titled 'Equipment / Rack-Mounts / Servers / Server 1' and has tabs for General, Inventory, Virtual Machines, Hybrid Display, Installed Firmware, SEL Logs, and CIMC Ses. The 'General' tab is active, showing a 'Fault Summary' with four status indicators: a red 'X' (0), a red 'V' (0), a yellow triangle (1), and a green circle (1). Below this is a 'Status' section showing 'Overall Status : Power Off' and a 'Status Details' button. An 'Actions' list includes options like 'Create Service Profile', 'Boot Server', and 'Server Maintenance', which is highlighted with a red box. Other actions include 'KVM Console >>' and 'Turn on Locator LED'. On the right, there is a 'Physical Display' image of a server rack and a 'Properties' table with fields like ID, Product Name, Vendor, etc.

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

The dialog box is titled 'Maintenance Server 1' and contains the following text: 'You are attempting to perform server maintenance. Please select a maintenance task:'. Below the text is a list of five radio button options: 'Remove', 'Re-acknowledge', 'Decommission', 'Diagnostic Interrupt', and 'Reset to Factory Default'. The 'Decommission' option is selected. At the bottom right of the dialog are two buttons: 'OK' and 'Cancel'.



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

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## **Step 2. Unconfigure Server Ports**

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

Click on **Unconfigure.**

Equipment / Fabric Interconnects / Fabric Interconnect A (subordin... / Fixed Module / Ethernet Ports / Port 4

General | Faults | Events | FSM | Statistics

Fault Summary

0 1 0 0

Status

Overall Status : **Link Down**  
 Additional Info : **Link failure or not-connected**  
 Admin State : **Enabled**

Actions

Enable Port  
 Disable Port  
 Reconfigure  
**Unconfigure**  
 Show Interface

Physical Display

Up Admin Down Fail Link Down

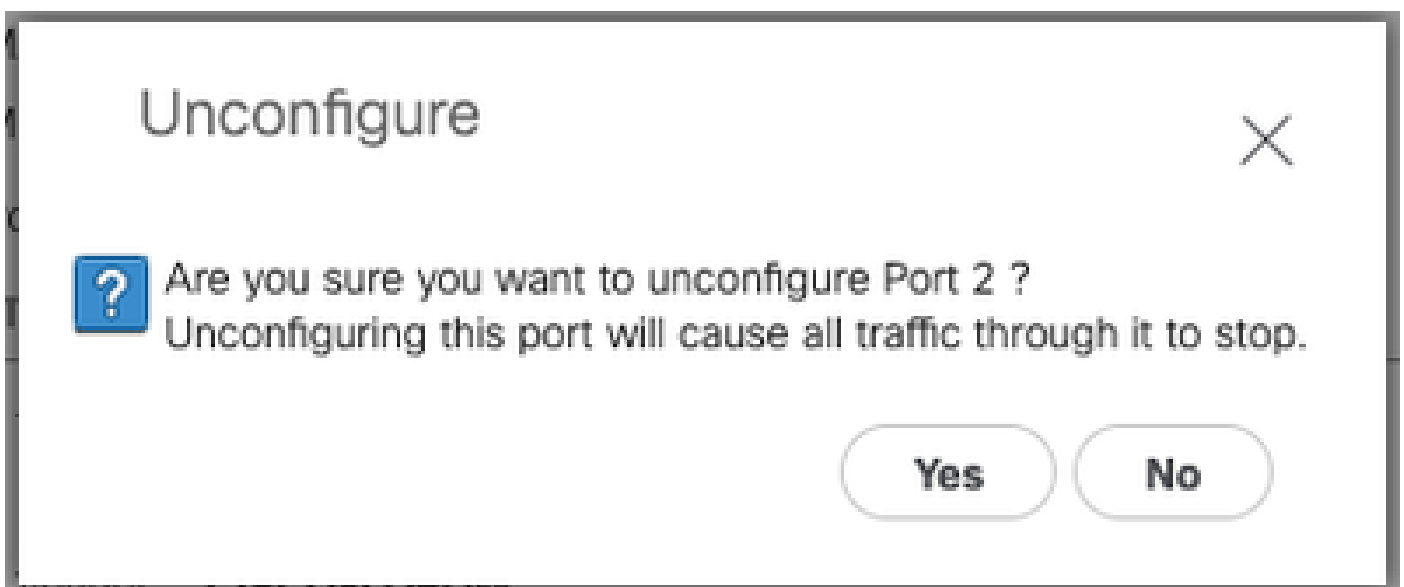
Properties

ID : 4 Slot ID : 1  
 User Label :  
 MAC : 00:2A:6A:25:7E:4B  
 Mode : Trunk  
 Port Type : Physical Role : Server  
 Transceiver

Type : H10GB CU1M  
 Model : 1-2053783-1  
 Vendor : CISCO-FYCO  
 Serial : TED2433A1P6

License Details

License State : License OK  
 License Grace Period : 0



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.



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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 ...

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-WZP26360761
Dynamic DNS:   [X]
DDNS Domain:
FactoryDefaults
Factory Default: [X]
Default User(Admin)
Enter New Default User password:
Re-Enter New Default User password:
Port Properties
Auto Negotiation: [X]
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:	<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:	11.11.11.11		
Prefix/Subnet:	255.255.255.0		
Gateway:	11.11.11.1		
Pref DNS Server:			

Smart Access USB

Enabled

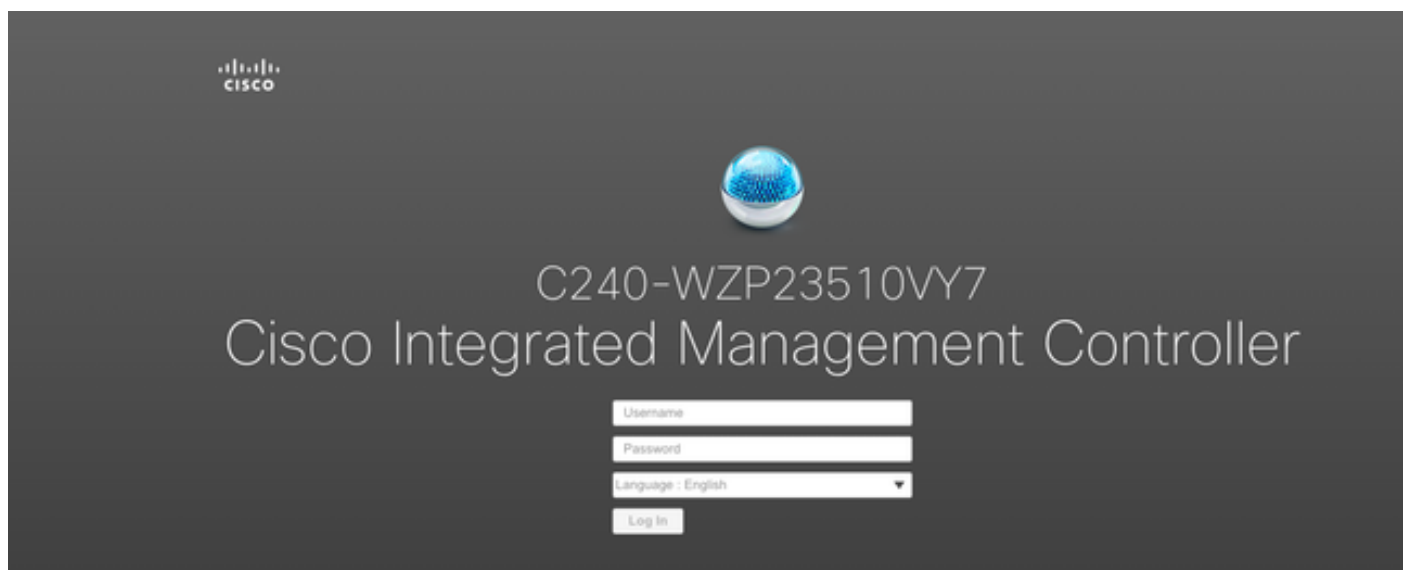
\*\*\*\*\*

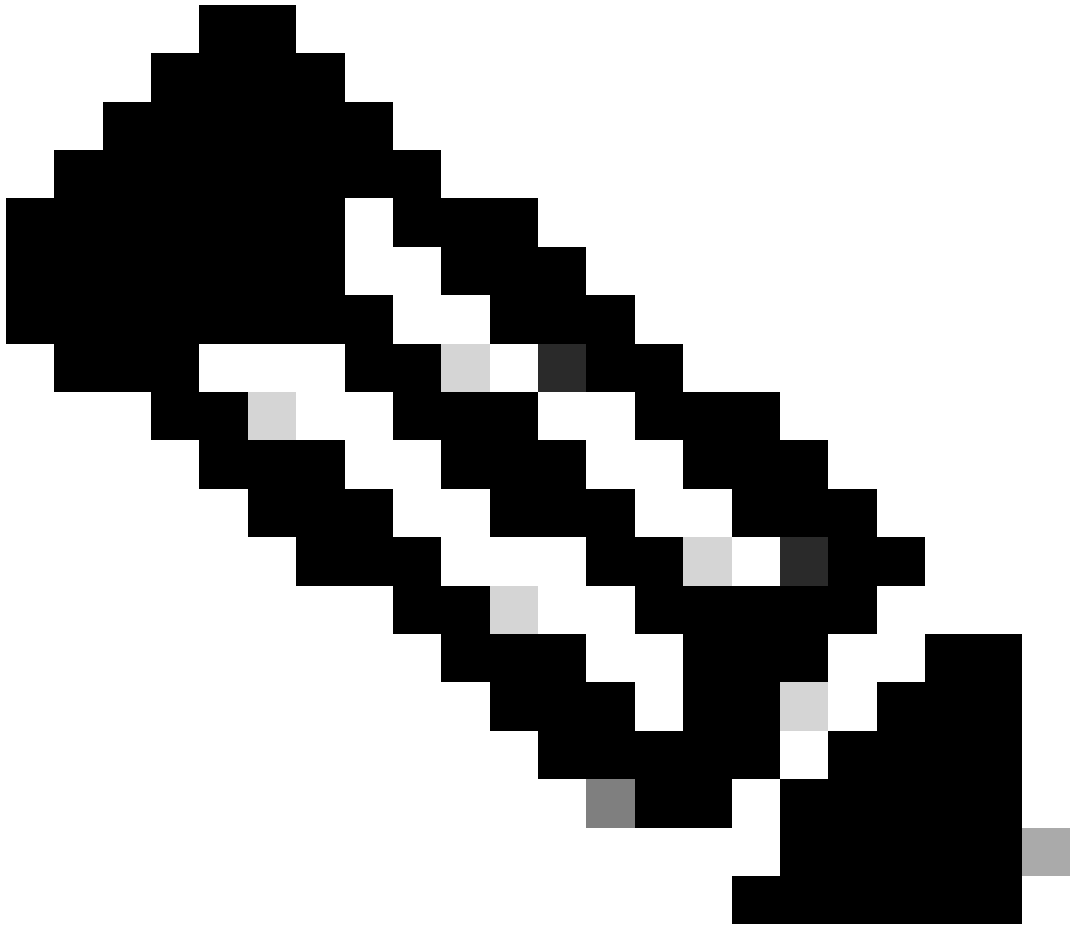
<Up/Down>Selection <F10>Save <Space>Enable/Disable <F5>Refresh <ESC>Exit  
<F1>Additional settings

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>





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

---

CIMC Prompt view and current CIMC version

Server Properties

Product Name: UCS C240 MSSD  
Serial Number: WZP23510VY7  
PID: UCSC-C240-MSSD  
UUID: F0E2F2ED-AD46-4328-8E14-C3E1970B9539  
BIOS Version: C240M5.4.2.2b.0.0613220203  
Description:  
Asset Tag: Unknown

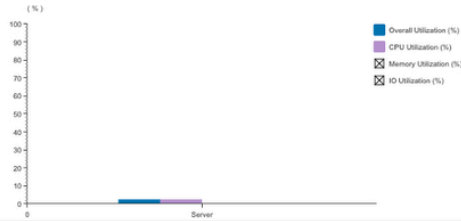
Cisco Integrated Management Controller (Cisco IMC) Information

Hostname: C240-WZP23510VY7  
IP Address: 10.28.108.88  
MAC Address: 7C:31:0E:9F:12:80  
Firmware Version: 4.2(2a)  
Current Time (UTC): Mon Sep 25 03:04:40 2023  
Local Time: Mon Sep 25 03:04:40 2023 UTC +0000 (NTP)  
Timezone: UTC [Select Timezone](#)

Chassis Status

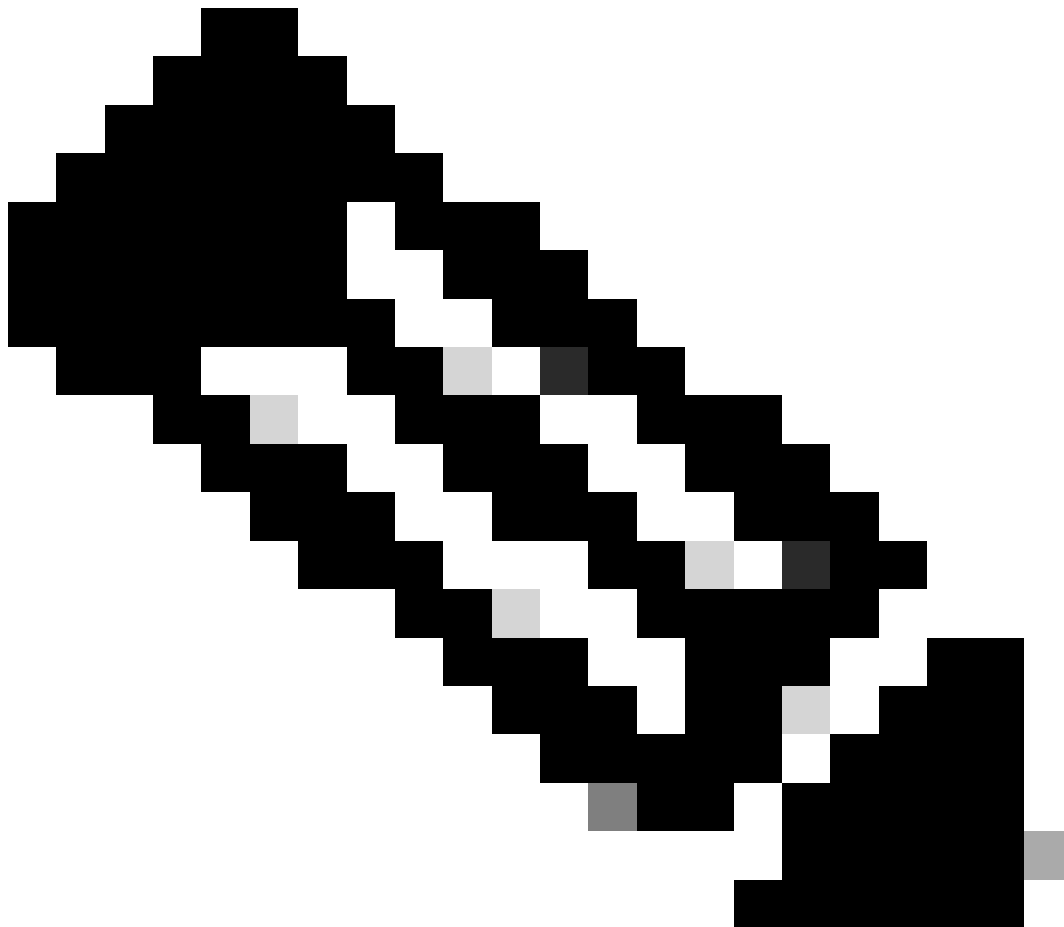
- Power State: On
- Post Completion Status: Completed
- Overall Server Status: Good
- Temperature: Good
- Overall DIMM Status: Good
- Power Supplies: Good
- Fans: Good
- Locator LED: Off
- Overall Storage Status: Good

Server Utilization



Save Changes | Reset Values

# Reimage Firmware Version



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

## 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**

The screenshot displays the Cisco Integrated Management Controller (CIMC) Summary page. The top navigation bar includes the Cisco logo, the text "Cisco Integrated Management Controller", and a user profile "admin@... - C240-WZP23510VY7". The main content is divided into several sections:

- Server Properties:** Lists details such as Product Name (UCS C240 MSSD), Serial Number (WZP23510VY7), PID (UCSC-C240-MSSD), UUID (F0E2F2ED-AD46-4328-8E14-C3E1970B9539), BIOS Version (C240M5.4.2.2b.0.0613220203), Description, and Asset Tag (Unknown).
- Cisco Integrated Management Controller (Cisco IMC) Information:** Shows Hostname (C240-WZP23510VY7), IP Address, MAC Address (7C:31:0E:9F:12:80), Firmware Version (4.2(2a)), Current Time (UTC) (Mon Sep 25 03:04:40 2023), Local Time (Mon Sep 25 03:04:40 2023 UTC +0000 (NTP)), and Timezone (UTC).
- Chassis Status:** A list of status indicators with green checkmarks for "On", "Completed", "Good", "Good", "Good", "Good", "Good", "Off", and "Good".
- Server Utilization:** A bar chart showing utilization percentages for Overall, CPU, Memory, and IO. The y-axis ranges from 0 to 100%.

At the bottom right, there are "Save Changes" and "Reset Values" buttons. A "Launch vKVM" button is highlighted with a red box in the top navigation bar.

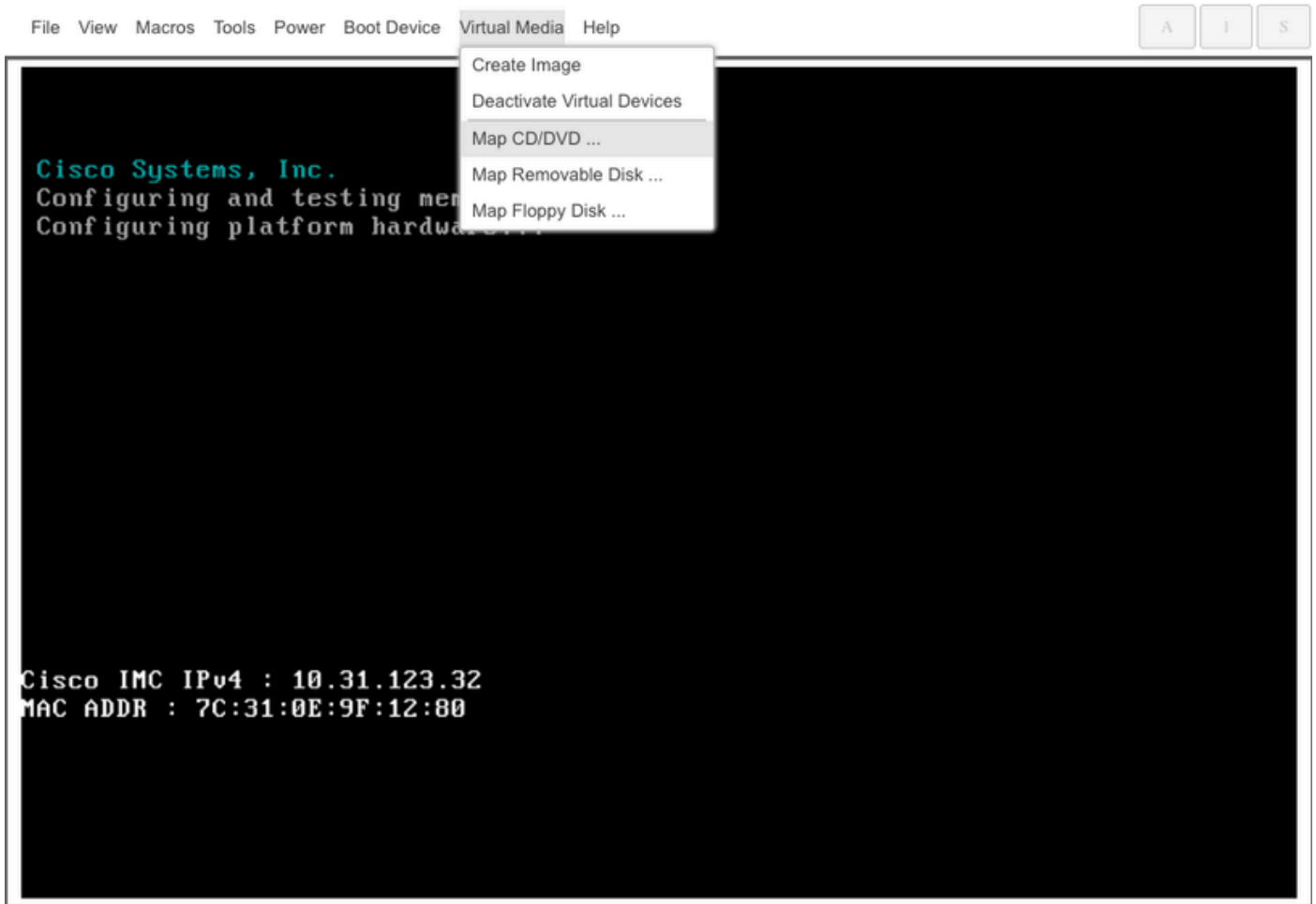
Once vKVM is launched, click on **Virtual Media** and **Activate Virtual Devices**

Create Image  
Activate Virtual Devices

```
Cisco Systems, Inc.  
Configuring and testing memory..
```

```
Cisco IMC IPv4 : 10.31.123.32  
MAC ADDR : 7C:31:0E:9F:12:80
```

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.



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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

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 Boot Menu ...

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



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.

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#### **Step 4.- Reimage Current Version.**

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



# HOST UPGRADE UTILITY

## Cisco Software License Agreement

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Reject

Accept

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

**HOST UPGRADE UTILITY v4.2.2a** | UCSC-C240-M5SD

Components Storage Devices Verify Last Update

7 items found | 10 per page | 1 of 1

<input checked="" type="checkbox"/>	Name	Slot	Running Version	Package Version	Status
<input checked="" type="checkbox"/>	Cisco UCS VIC 1455	1	5.2(2b)	5.2(2b)	-
<input checked="" type="checkbox"/>	Intel X550 LOM[Enable Security Checks]	L	0x800016F9-1.826.0	0x800016F9-1.826.0	-
<input checked="" type="checkbox"/>	Cisco UCS VIC 1457 MLOM	MLOM	5.2(2b)	5.2(2b)	-
<input checked="" type="checkbox"/>	Cisco 12G Modular SAS HBA (max 16 d	MRAID	20.00.02.01	20.00.02.01	-
<input checked="" type="checkbox"/>	Cisco Boot optimized M.2 Raid controller	MSTOR-RAID	2.3.17.1014	2.3.17.1014	-
<input checked="" type="checkbox"/>	CIMC	N/A	4.2(2a)	4.2(2a)	-
<input checked="" type="checkbox"/>	BIOS	N/A	C240M5.4.2.2b.0.06...	C240M5.4.2.2b.0.06...	-

Selected 7 of 7 | Show Selected | Unselect All

Toggle 'Advanced Mode' for factory reset, CMC secure boot, update, and activate a single or group of components.  Advanced Mode

Progress 0% | More Actions | **Update & Activate**

Wait until it finishes the reimage and the server reboots.

## Integrate Server to UCS Manager

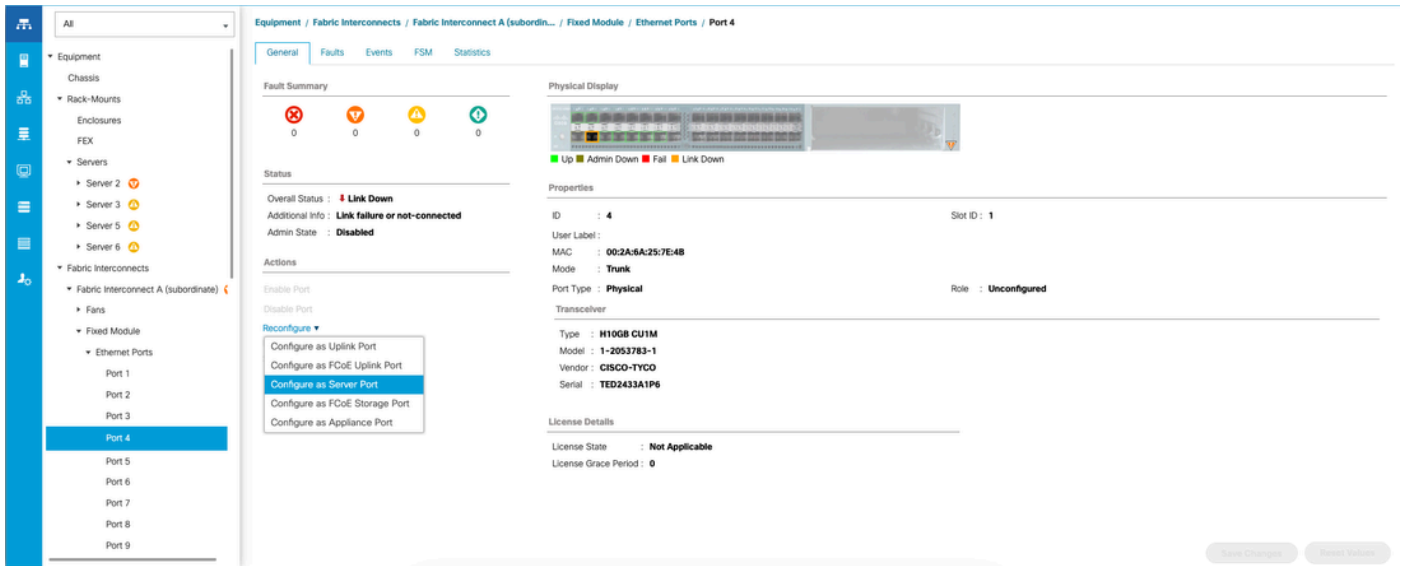
### Step 1. Set CIMC to Factory Default.

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**.

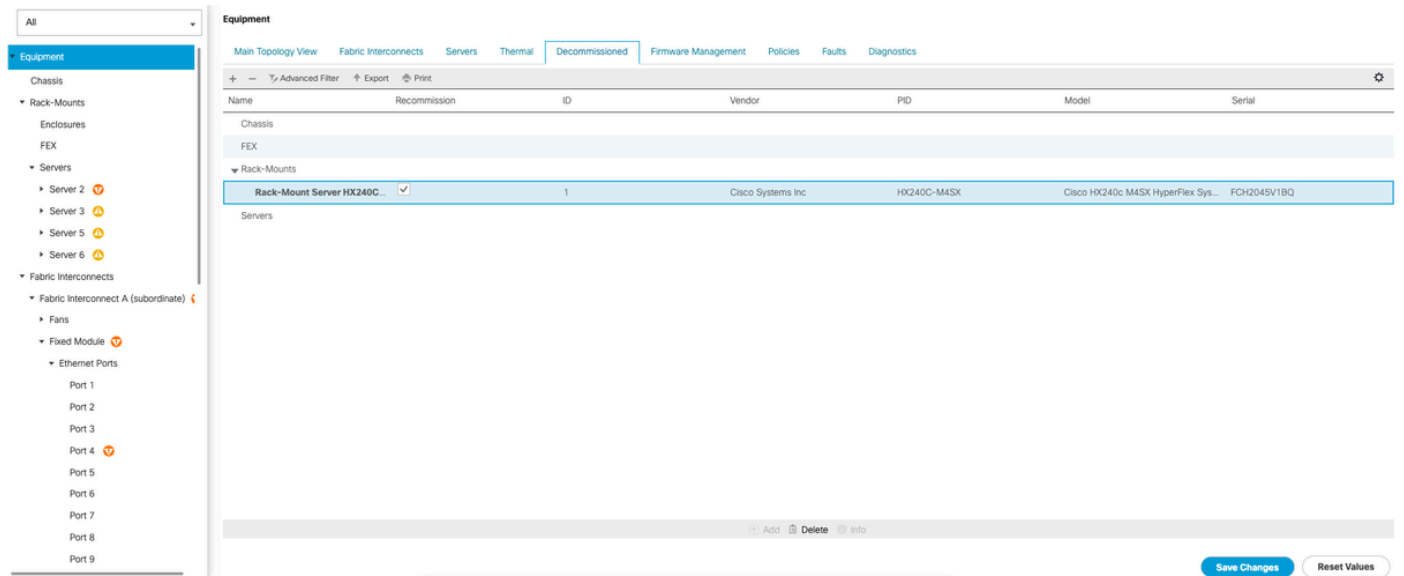
Click **Reconfigure** and select **Configured as Server Port**.

### Step 3. Connect Adapter Cables

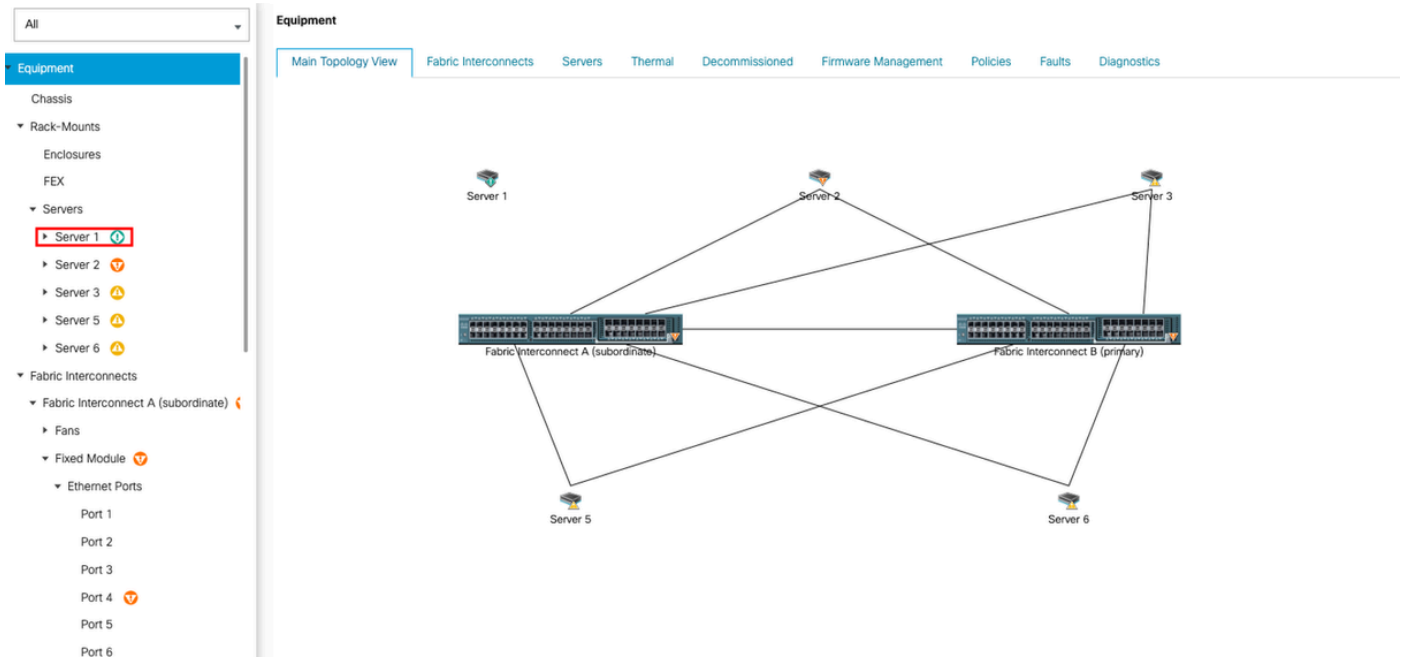
Connect port 1 to FI-A and port 3 to FI-B of the VIC Card.

### Step 4. Recommission Server.

Go to **Equipment > Decommissioned > 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.

Equipment / Rack-Mounts / Servers / Server 1

General Inventory Virtual Machines Hybrid Display Installed Firmware SEL Logs CIMC Sessions VIF Paths Power Control Monitor Health Diagnostics Faults Events **FSM** Statistics Temperatures Power

FSM Status : **In Progress**  
 Description :  
 Current FSM Name : **Discover**  
 Completed at :  
 Progress Status : 14%  
 Remote Invocation Result : **Not Applicable**  
 Remote Invocation Error Code : **None**  
 Remote Invocation Description :

Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Discover Sw Port Details Local	Fetching adaptor connectivity details for ...	Skip	2023-09-26T17:02:14Z	0
2	Discover Sw Port Details Peer	Fetching adaptor connectivity details for ...	Skip	2023-09-26T17:02:14Z	0
3	Discover Sw Configure Port Channel Local	Configuring port channel for server 1/FS...	Skip	2023-09-26T17:02:14Z	0
4	Discover Sw Configure Port Channel Peer	Configuring port channel for server 1/FS...	Skip	2023-09-26T17:02:14Z	0
5	Discover Bmc Configure Conn Local	Configuring connectivity on CIMC of serv...	Success	2023-09-26T17:02:14Z	1
6	Discover Sw Configure Conn Local	Configuring fabric interconnect connect...	Success	2023-09-26T17:02:15Z	1

Name :  
 Status :  
 Description :  
 Order :  
 Retried :  
 Timestamp :

Save Changes Report Issues

**Note:** Discovery can take several minutes to start

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

Equipment / Rack-Mounts / Servers / Server 1

General Inventory Virtual Machines Hybrid Display Installed Firmware SEL Logs CIMC Sessions VIF Paths Power Control Monitor Health Diagnostics Faults Events **FSM** Statistics Temperatures Power

FSM Status : **In Progress**

Description :

Current FSM Name : **Associate**

Completed at :

Progress Status : 33%

Remote Invocation Result : **Not Applicable**

Remote Invocation Error Code : **None**

Remote Invocation Description :

Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Associate Download Images	Download images from operations mana...	Skip	2023-09-26T23:03:45Z	0
2	Associate Copy Remote	Copy images to peer node(FSM-STAGE...	Skip	2023-09-26T23:03:45Z	0
3	Associate Update BMC Fw	Update CIMC firmware of server 1(FSM-...	Skip	2023-09-26T23:03:45Z	0
4	Associate Wait For BMC Fw Update	Wait for CIMC firmware completion on se...	Skip	2023-09-26T23:03:45Z	0
5	Associate Config User Access	Configuring external user access(FSM-S...	In Progress	2023-09-26T23:03:47Z	1
6	Associate Associate BMC Fw	Associate CIMC firmware of server 1(FSM...	Skip	2023-09-26T23:03:45Z	0

Name :  
Status :  
Description :  
Order :  
Retried :  
Timestamp :

Save Changes Report Status

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](#)