

# 在IMM上将集成UCS C系列配置为独立模式

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## 简介

本文档介绍将集成在Intersight管理模式中的UCS-C系列转换为独立模式的过程。

## 先决条件

在尝试进行此配置之前，请确保满足以下要求。

- 连接到C系列服务器的计算机
- 监控
- KVM电缆
- 键盘
- 1G电缆连接到管理端口

## 要求

Cisco 建议您了解以下主题：

- 对统一计算系统服务器(UCS)的基本了解
- 对Intersight管理模式(IMM)的基本了解
- 基本了解思科集成管理控制器(CIMC)
- 对网络的基本了解

## 使用的组件

- Intersight管理模式(IMM)
- 固件版本4.3(3.240007)
- 6536交换矩阵互联
- UCSC-C220-M5SX

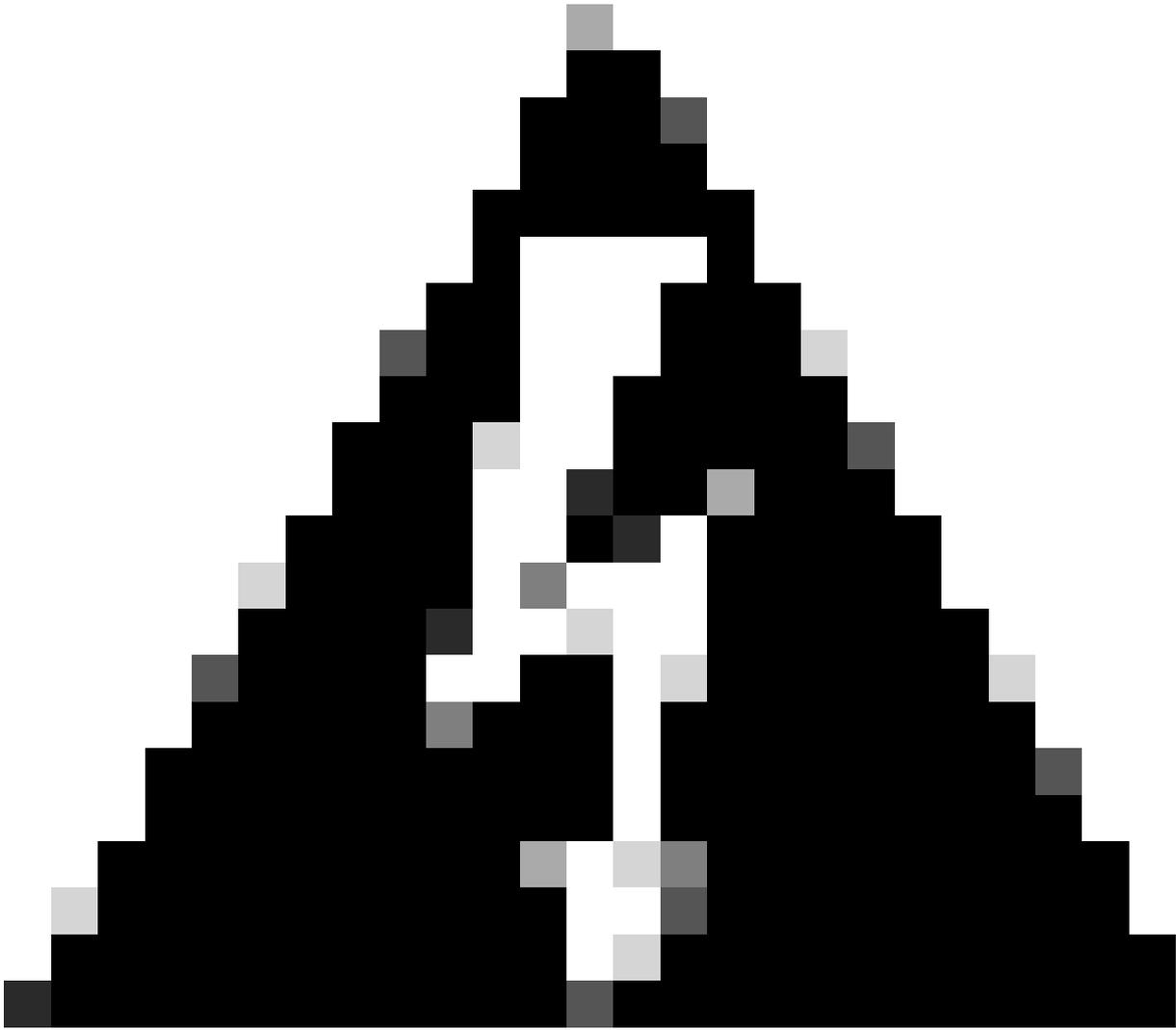
本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

## 背景信息

如果网络适配器需要更换,并且部件以较低的固件到达,服务器无法完成发现,则需执行此过程。

## 配置

将服务器置于独立模式



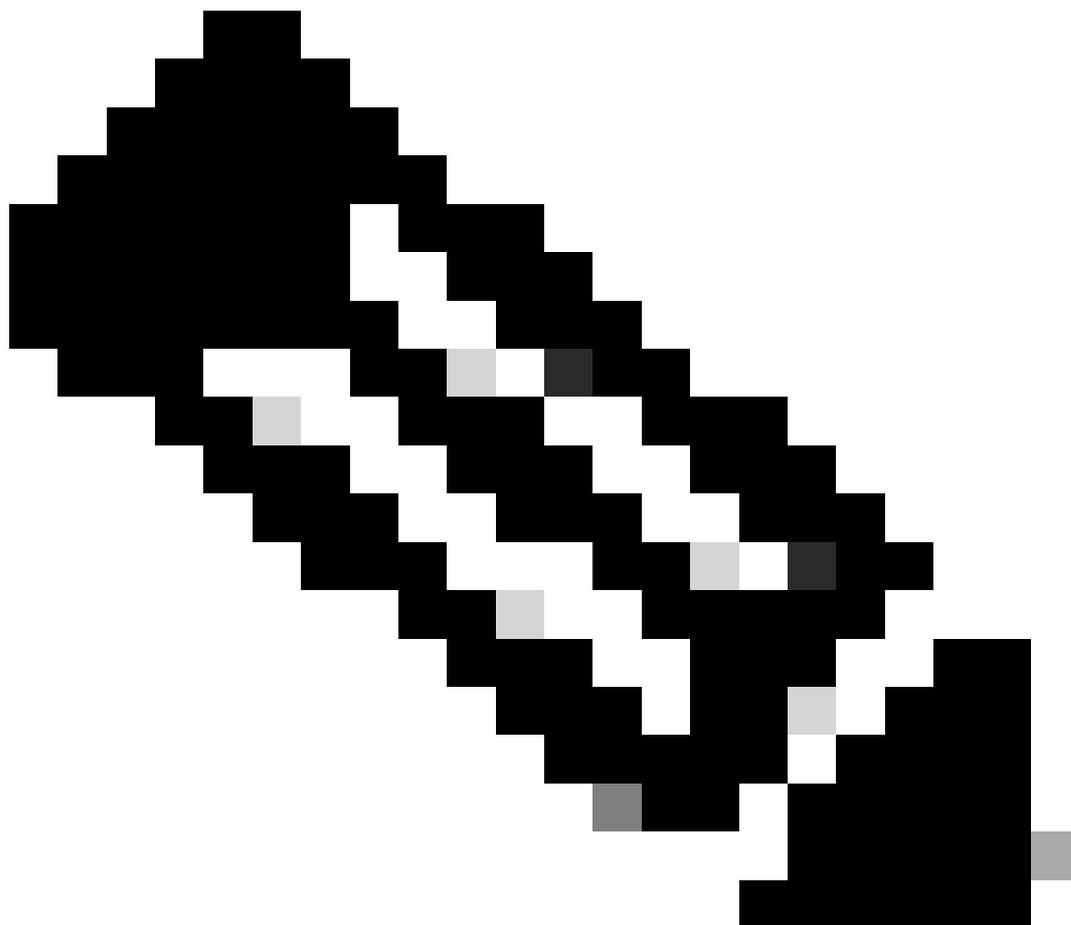
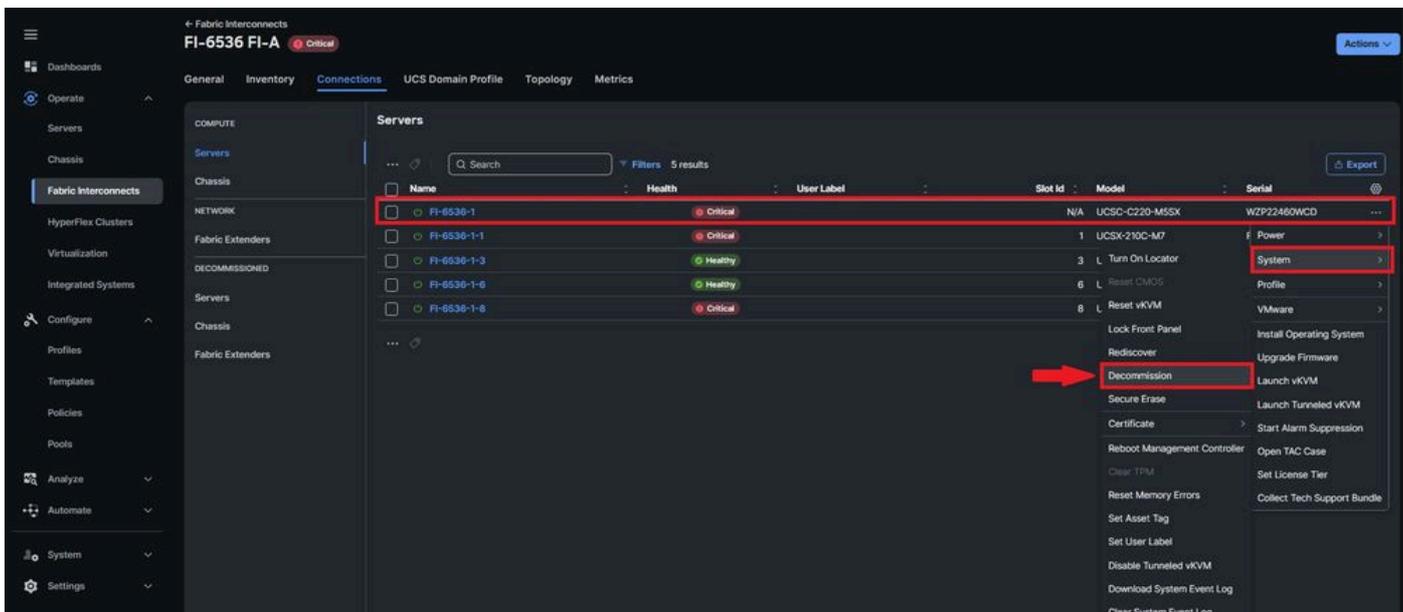
警告：在开始此过程之前，请确保关闭服务器的电源。

---

### 步骤1.停用服务器

导航到您的IMM Web界面，然后导航到Fabric Interconnections选项卡> Connections > Servers,并选择所需的服务器。

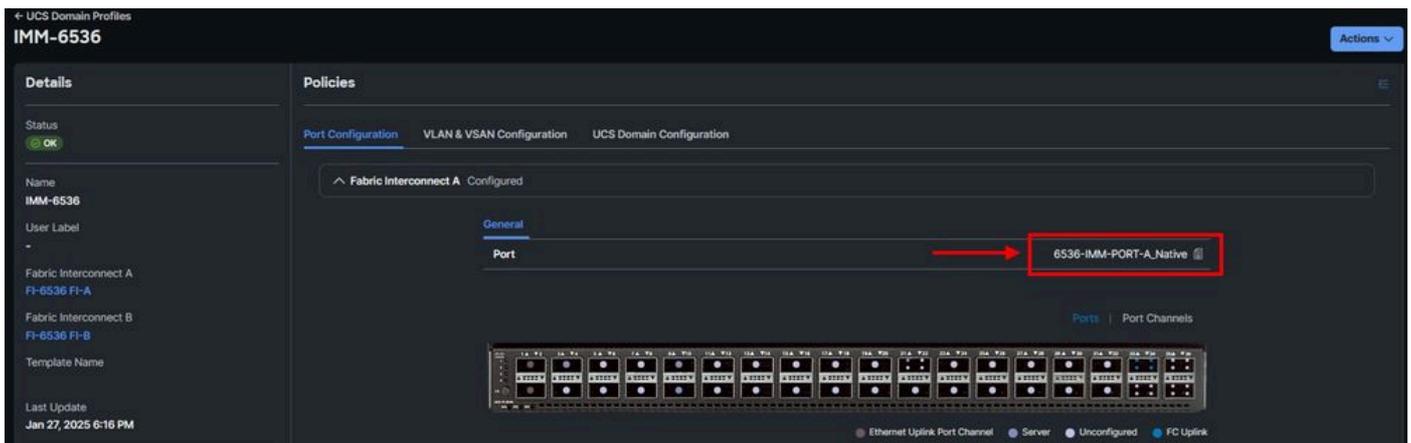
然后，点击3点并将其停用：



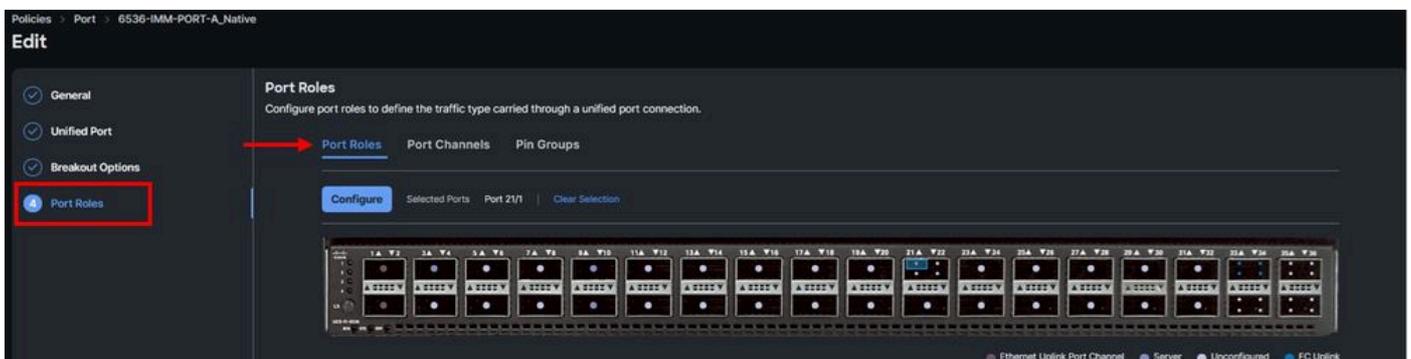
注意：您可以在请求选项卡中验证停用进度。

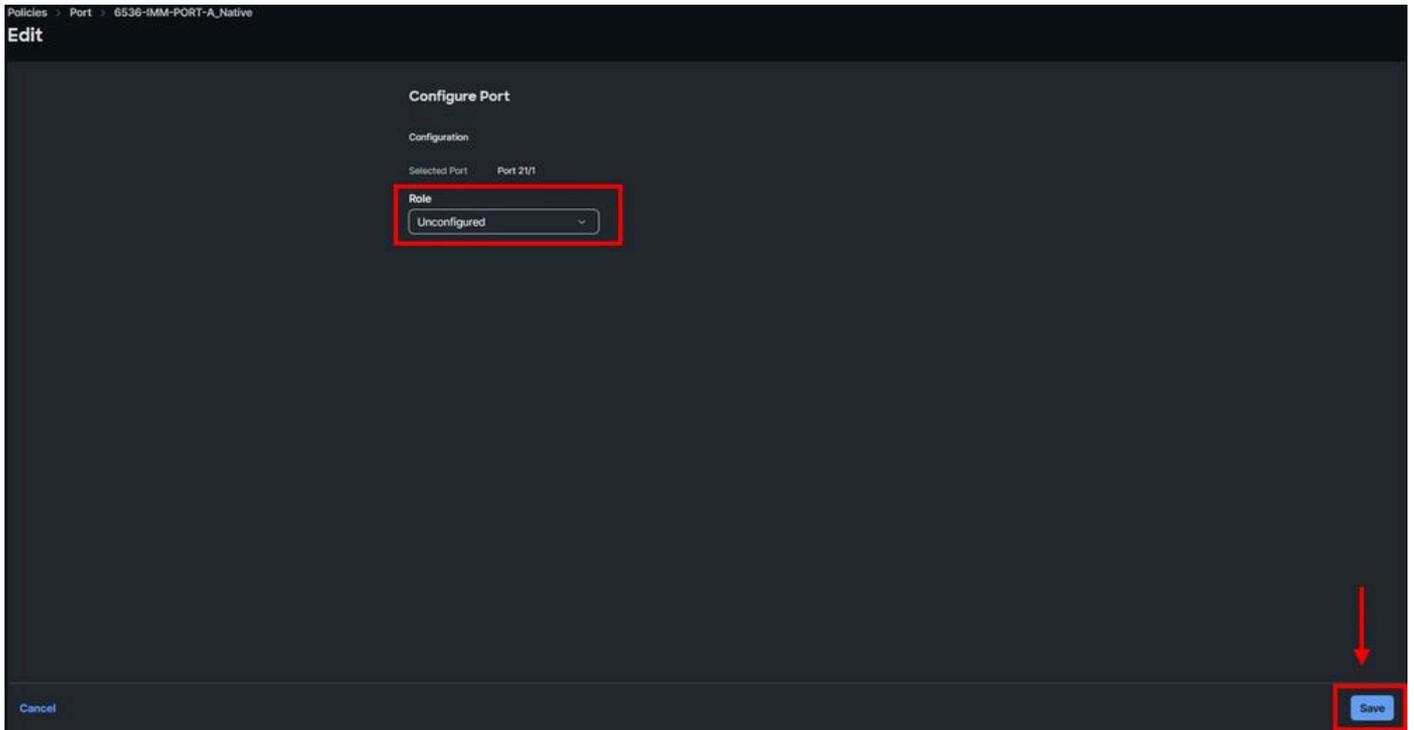
## 步骤2.取消配置服务器端口

导航到交换矩阵互联选项卡> UCS域配置文件，然后选择端口策略：



在端口角色选项卡中，选择配置为服务器端口的当前端口。单击Configure，选择角色为Unconfigured。保存更改并重新部署域配置文件。在交换矩阵互联B上重复相同的过程。





### 步骤3.将CIMC更改为默认设置

关闭服务器电源并拔下电源线。

等待2分钟，然后重新连接电源线。

使用显示器和键盘将KVM电缆连接到服务器的控制台端口。

监控服务器启动过程，直到您到达Cisco菜单并按F8键进入Cisco IMC配置实用程序。



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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

按F1并启用出厂默认设置。

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.

\*\*\*\*\*

### Common Properties

Hostname: C220-WZP26360761-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

按F10保存更改并重新启动服务器。

#### 步骤4.将CIMC配置为独立模式

监控服务器启动过程，直到您到达Cisco菜单并按F8再次进入Cisco IMC Configuration Utility。

应用下一个配置：

- 选择为专用的NIC模式
- IP到IPV4
- CIMC IP，其IP与您的计算机位于同一子网中。
- NIC冗余到无
- 无 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:
  Riser1:       [ ]                    Active-active:  [ ]
  Riser3:       [ ]                    VLAN (Advanced)
  MLOm:         [ ]                    VLAN enabled:   [ ]
Shared OCP Ext: [ ]                    VLAN ID:        1
                                           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
```

按F10保存更改并重新启动服务器。

将计算机连接到服务器上的物理管理端口并打开Web浏览器。

使用您配置的IP <https://x.x.x.x>



CIMC提示视图和当前CIMC版本：

**Dashboard**

**Server Details**

Product Name UCS C220 M7S	Serial Number WZP26360761
UUID 33945D85-3896-452A-829D-838E4B18B9BD	BIOS Version C220M7.4.3.4a.0.0513242027
PID UCSC-C220-M7S	

**CIMC Information**

IP Address	Host Name C220-WZP26360761-API
MAC Address EC:F4:0C:1C:0E:42	Current Time Fri, Jan 31, 2025, 01:17:13 PM
Firmware Version 4.3(4.240152)	Timezone UTC

**Chassis Status**

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

**Processors & Memory**

CPUs 2	Memory Capacity (MB) 262144
Cores 64	Clock Speed (Mhz) 4800
Threads 128	Effective Memory (MB) 262144
Cores Enabled 64	Memory Layout
CPUs Speed (Mhz) 2200	

**KVM Console**

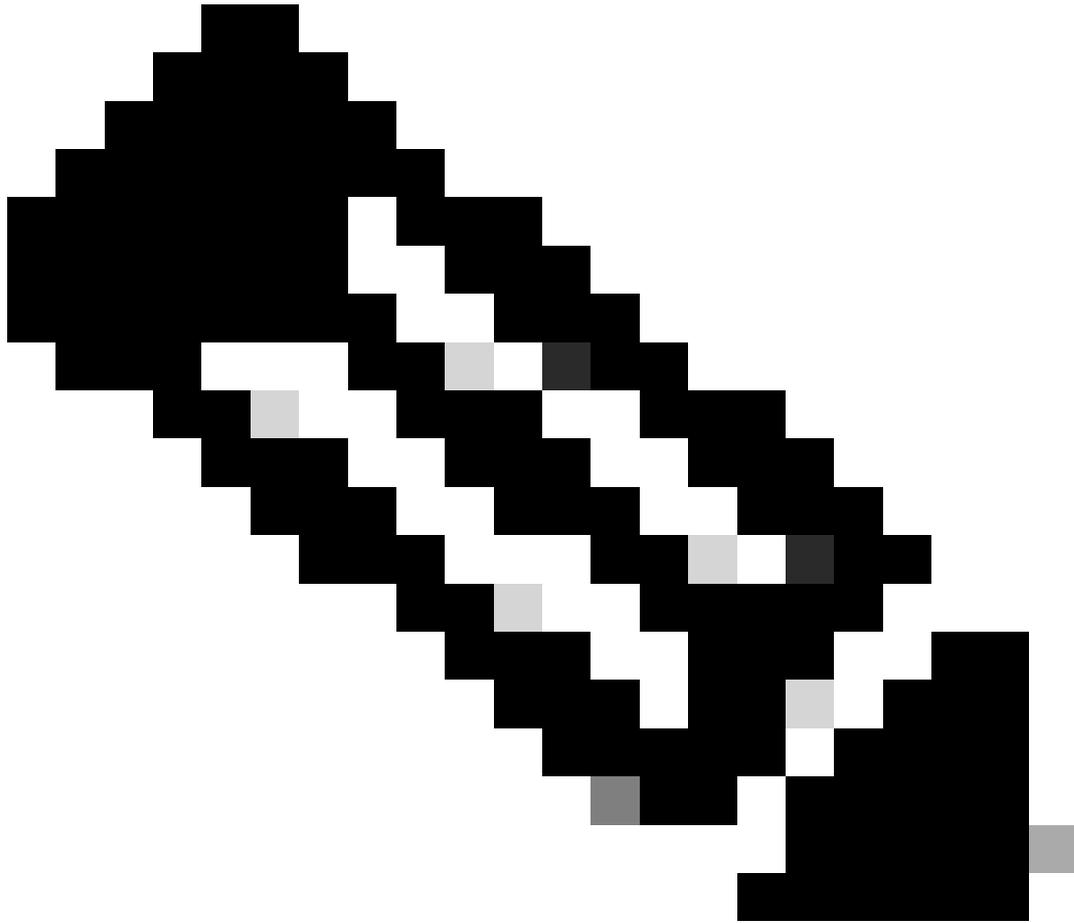
```

Cisco IFT Interactive Shell v4.0
Rev. 11
MFI is the live span persistence, 0x000000
MFI is not active.
Press F12 in 1 seconds to do startup, hit or any other
keys.
  
```

**Quick Actions**

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重新映像固件版本



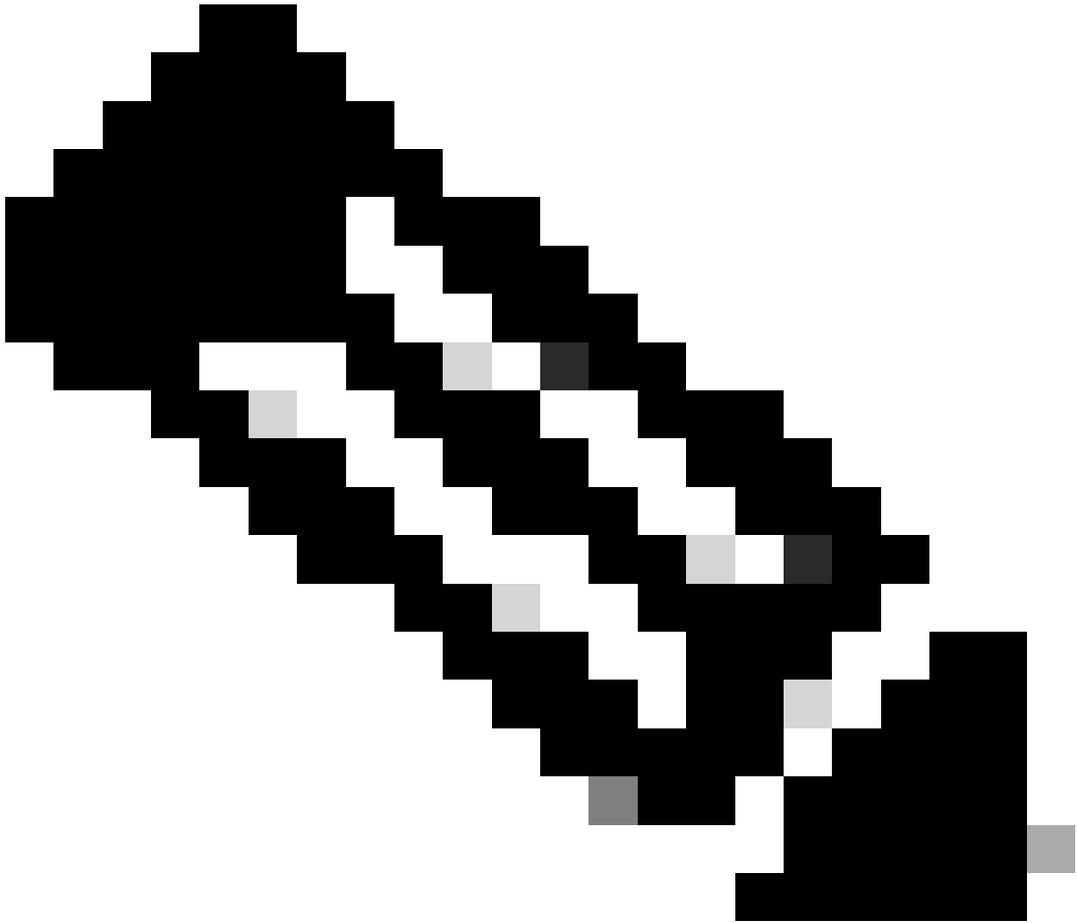
注意：如果您的服务器集成回Intersight，强烈建议重新映像固件版本。

---

步骤1. 下载主机升级实用程序(HUU)ISO

您可以从[software.cisco.com](https://software.cisco.com)下载HUU ISO。

步骤2. 启动KVM并映射HUU ISO

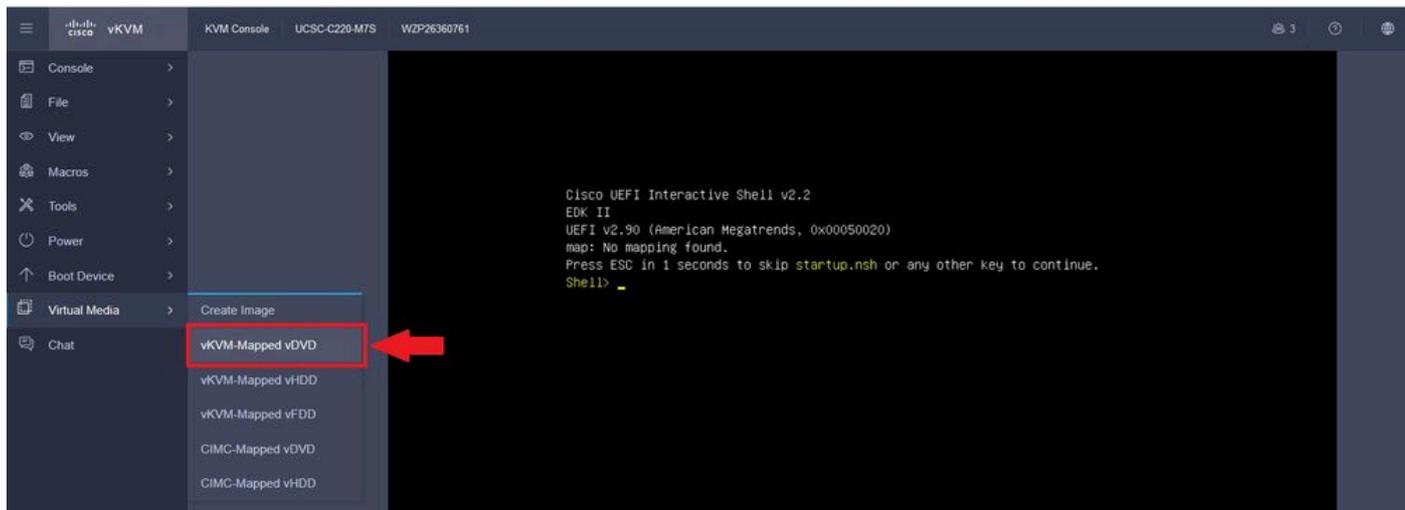


注意：如果您愿意，可以展开KVM选项卡，导航到操作>系统，然后单击启动KVM。

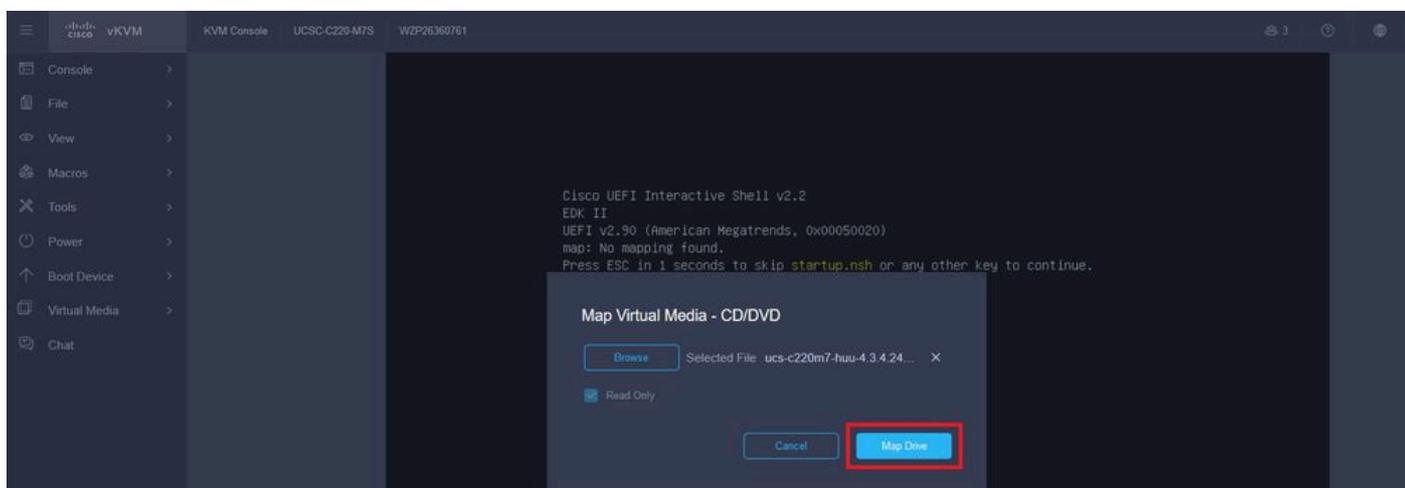
The screenshot displays the UCS Manager interface. On the left, the 'Dashboard' section includes 'Server Details' (Product Name: UCS C220 M75, Serial Number: WZP26360761, etc.), 'CIMC Information' (IP Address: 10.31.123.30, Host Name: C220-WZP26360761-API, etc.), 'Chassis Status' (Overall Server Status Good, Power Supplies Good, etc.), and 'Processors & Memory' (CPUs: 2, Cores: 64, Memory Capacity: 262144 MB, etc.). On the right, the 'KVM Console' tab is active, showing a list of actions: Console, File, View, Macros, Tools, Power, Boot Device, Virtual Media, and Chat. The 'Power' action is expanded, showing 'CIMC Reboot', 'Launch KVM', 'Ping', and 'Turn On LED'. A red arrow points to the 'Launch KVM' option.

下载当前版本的HUU后，导航至CIMC，然后在右侧，查看KVM控制台并删除虚拟媒体，然后单击

vKVM-Mapped vDVD并映射ISO文件：



映射CD/DVD上的HUU:



步骤3.使用HUU ISO启动

重新启动服务器并监控启动过程，直到进入Cisco菜单并按F6键进入启动菜单。



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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 ...

选择vKVM-Mapped vDVD选项以启动HUU ISO映射：

Please select boot device:

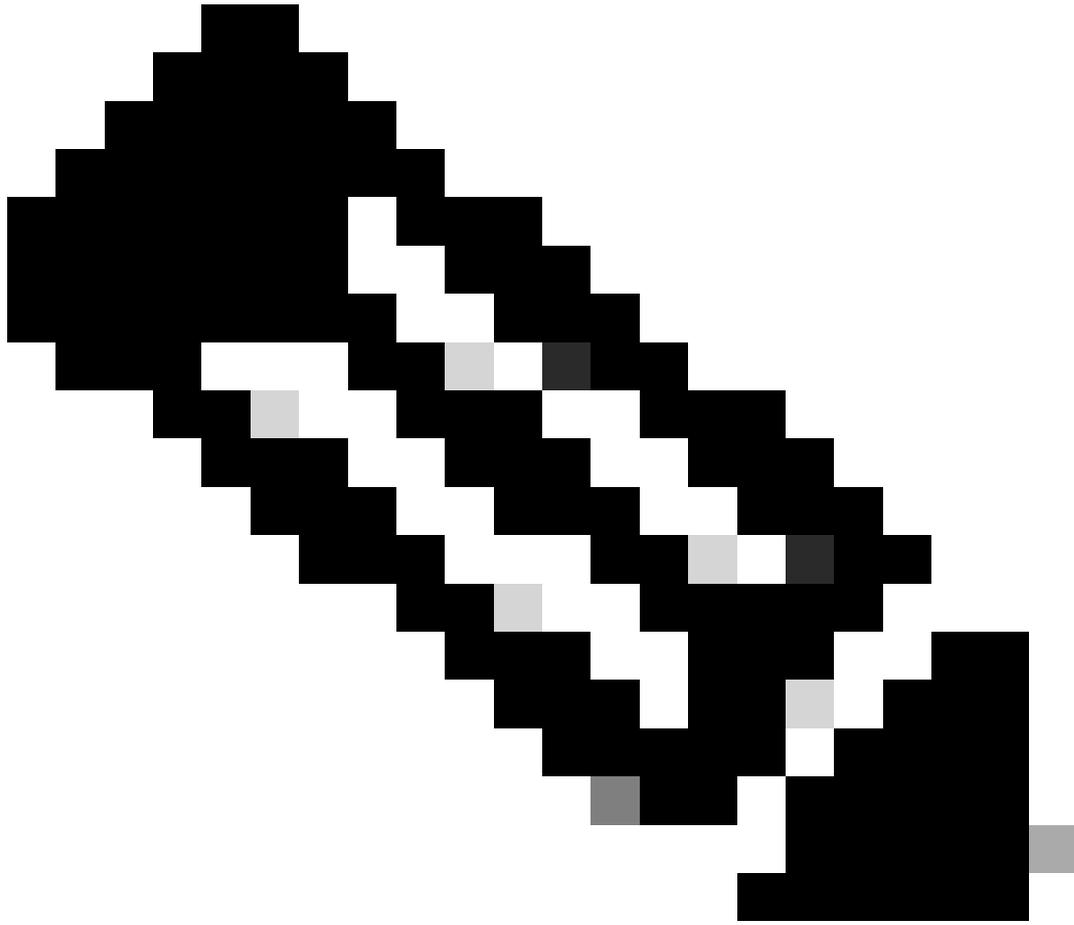
UEFI: Cisco vKVM-Mapped vDVD2.00

UEFI: Built-in EFI Shell

Enter Setup

---

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



注意：加载HUU ISO可能需要几分钟时间。

---

步骤4.重新映像当前版本

等待HUU ISO加载并接受思科软件许可协议。



# HOST UPGRADE UTILITY

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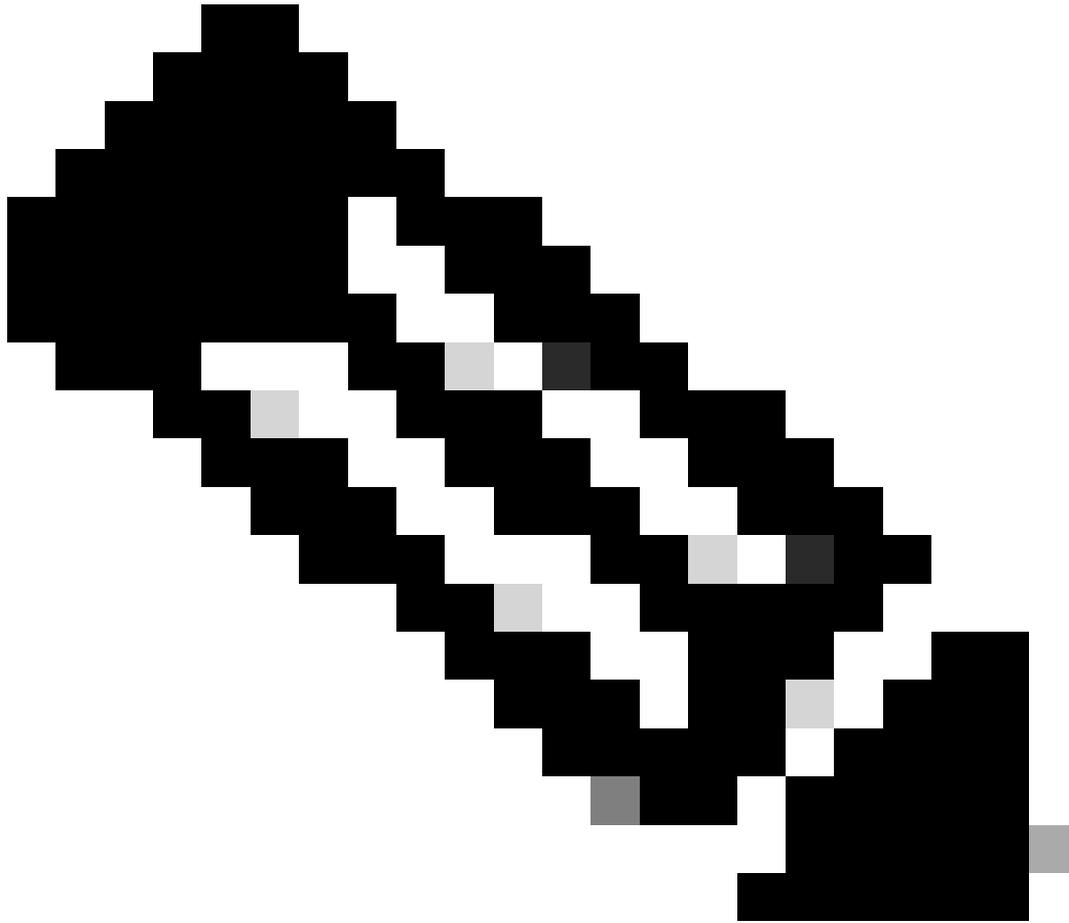
Reject

Accept

切换到高级模式并选择所有组件，然后点击更新和激活。

等到完成重新映像后，服务器将重新启动。

将服务器集成到Cisco Intersight



注意：在将服务器集成到Intersight之前，必须将CIMC和VIC适配器重置为出厂默认设置，以便正确配置它们。

---

步骤1.将BMC和VIC设置为出厂默认设置

导航到管理>实用程序>操作>管理实用程序>重置为出厂默认值:

Cisco Integrated Management Controller | Administration

### Admin Utilities

Operation	Status	Actions
Last Technical Support Data Export	Status Last Generated Time Cancel	<ul style="list-style-type: none"> <li>Export Technical Support Data</li> <li>Generate Technical Support Data for Local Download</li> <li>Import Configuration</li> <li>Export Configuration</li> <li><b>Reset to factory Default</b></li> <li>Generate NMI to Host</li> <li>Add/Update Cisco IMC Banner</li> <li>Download Hardware Inventory Data to Local Download</li> <li>Export Hardware Inventory Data to Remote</li> <li>Disable Secure Adapter Update</li> <li>Enable Smart Access USB</li> </ul>
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	

### Admin Utilities

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

#### Reset to factory Default

Reset to factory Default Setting of

- Adapter Card MLOM
- BMC

BMC

- BMC

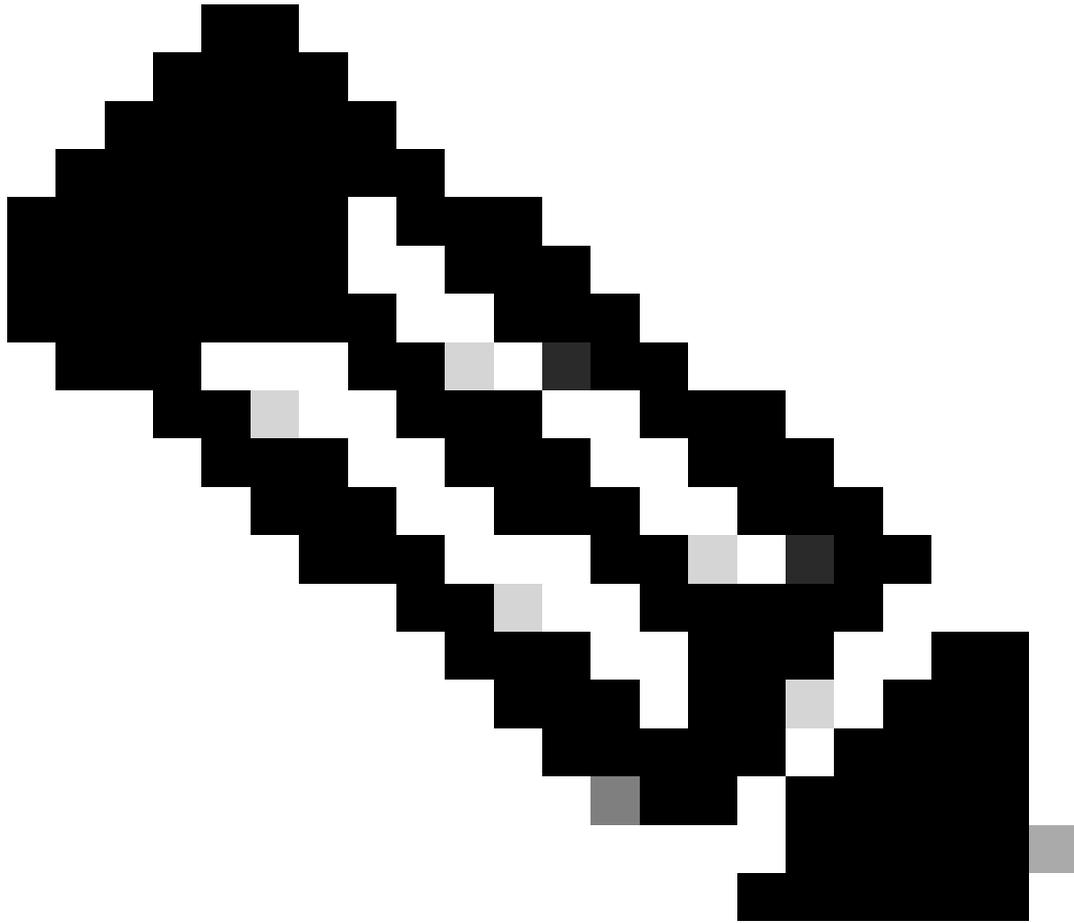
Storage

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

VIC

- Adapter Card MLOM

**Reset** **Cancel**



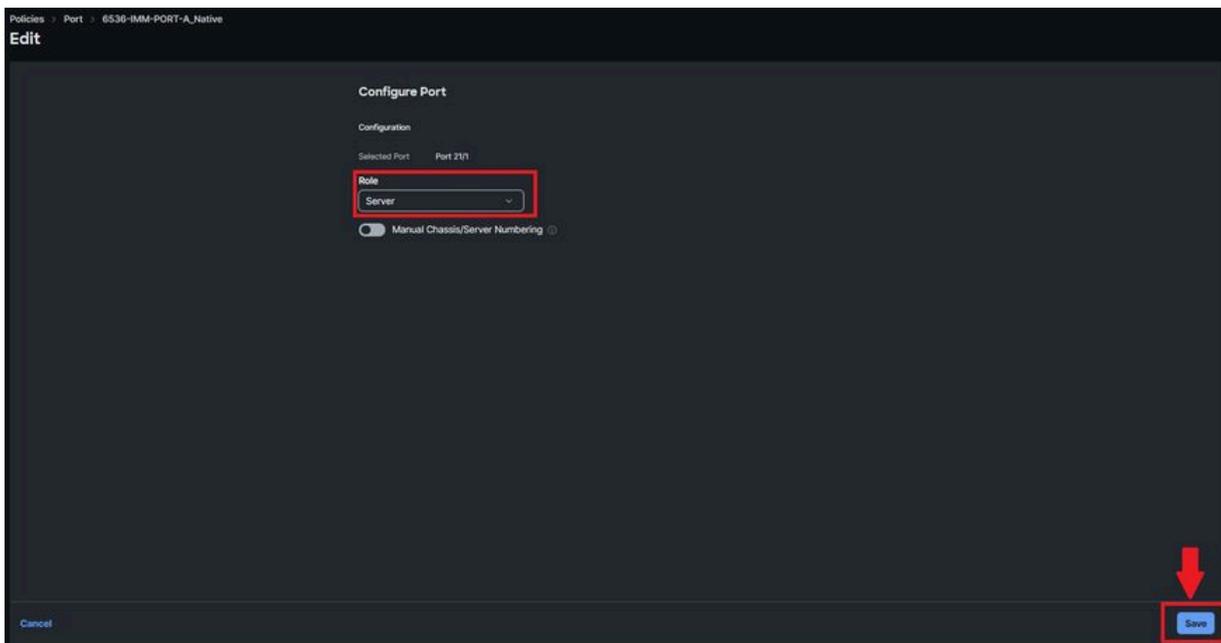
注意：不需要重置为默认存储设备。如果选择此选项，则会擦除虚拟驱动器和写入磁盘的数据。

---

## 步骤2.将端口重新配置为服务器端口

导航到交换矩阵互联选项卡> UCS域配置文件，然后选择端口策略。

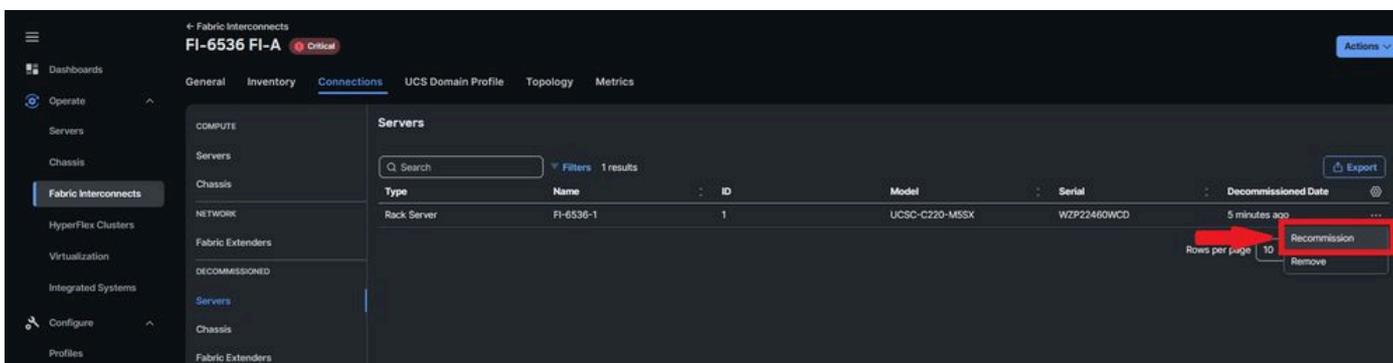
在端口角色选项卡中。选择以前配置为Unconfigured状态的端口。单击Configure并选择端口角色作为Server port。保存更改并重新部署域配置文件，在交换矩阵互联B上重复相同的过程。



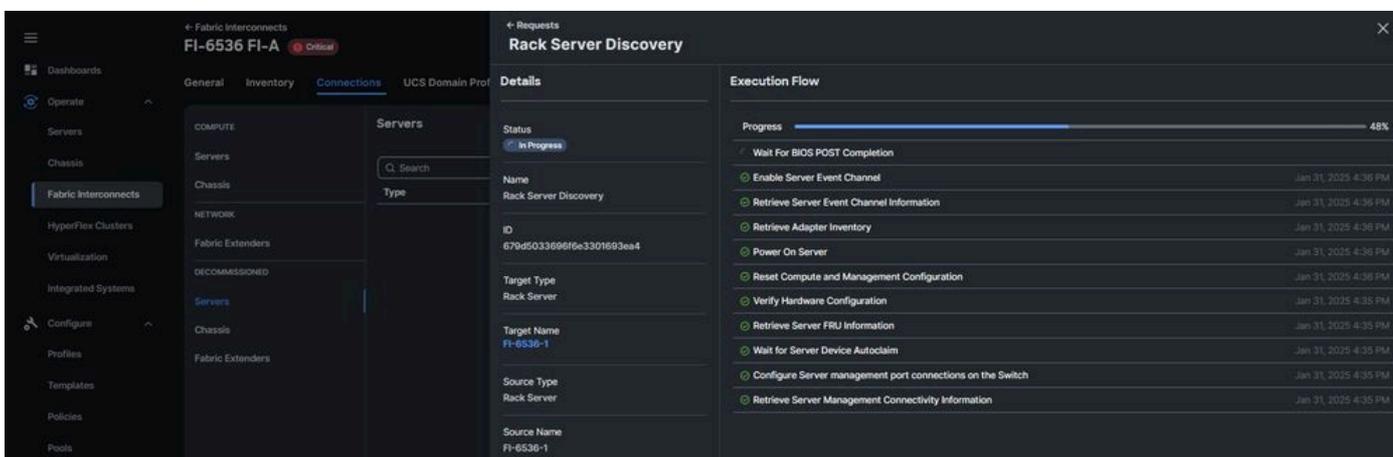
将网络适配器中的所需端口连接到交换矩阵互联端口。

### 步骤3.重新运行服务器

导航到交换矩阵互联选项卡。选择连接到服务器的交换矩阵互联。单击Connections选项卡，然后在Deauthenticated区域中选择Servers。选择服务器并重新启用它。



您可以在Requests选项卡中监控服务器发现过程。



---

注意：发现过程可能需要几分钟才能开始。

---

## 验证

为了进行验证和通过CLI确认C系列服务器已正确集成，可以运行以下命令：

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

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## 相关信息

- [Cisco Intersight管理模式配置指南](#)
- [Cisco UCS C系列服务器集成管理控制器CLI配置指南，版本4.3](#)
- [技术支持和文档 - Cisco Systems](#)

## 关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

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