

在IMM上將整合UCS C系列配置為獨立模式

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簡介

本文檔介紹將整合在Intersight管理模式中的UCS-C系列轉換為獨立模式的過程。

必要條件

嘗試此組態之前，請確保符合以下要求。

- 連線到C系列伺服器的電腦
- 監視
- KVM電纜
- 鍵盤
- 1G電纜連線到管理埠

需求

思科建議您瞭解以下主題：

- 對統一計算系統伺服器(UCS)的基本瞭解
- 對Intersight管理模式(IMM)的基本瞭解
- 對思科整合管理控制器(CIMC)的基本瞭解
- 網路基礎知識

採用元件

- Intersight管理模式(IMM)
- 韌體版本4.3(3.240007)
- 6536光纖互連
- UCSC-C220-M5SX

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 (預設) 的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

如果網路介面卡需要更換，而部件以較低的韌體到達，伺服器無法完成發現，則需要執行此過程。

設定

將伺服器置於獨立模式



警告：在開始此過程之前，請確保伺服器已關閉。

步驟1.停用伺服器

導航到IMM Web介面，然後導航到Fabric Interconnects頁籤>連線>伺服器，然後選擇所需的伺服器。

然後，按一下3個點並取消它：

← Fabric Interconnects
FI-6536 FI-A Critical Actions

General Inventory **Connections** UCS Domain Profile Topology Metrics

COMPUTE
Servers
Chassis

NETWORK
Fabric Extenders
Chassis

DECOMMISSIONED
Servers
Chassis
Fabric Extenders

Servers

... 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

附註：您可以在「請求」頁籤中驗證停用進度。

導航到交換矩陣互聯頁籤> UCS域配置檔案，然後選擇埠策略：

UCS Domain Profiles

IMM-6536

Details

Status

OK

Name

IMM-6536

User Label

-

Fabric Interconnect A

FI-6536 FI-A

Fabric Interconnect B

FI-6536 FI-B

Template Name

Last Update

Jan 27, 2025 6:16 PM

Policies

Port Configuration

VLAN & VSAN Configuration

UCS Domain Configuration

^ Fabric Interconnect A Configured

General

Port

6536-IMM-PORT-A-Native

Ports | Port Channels

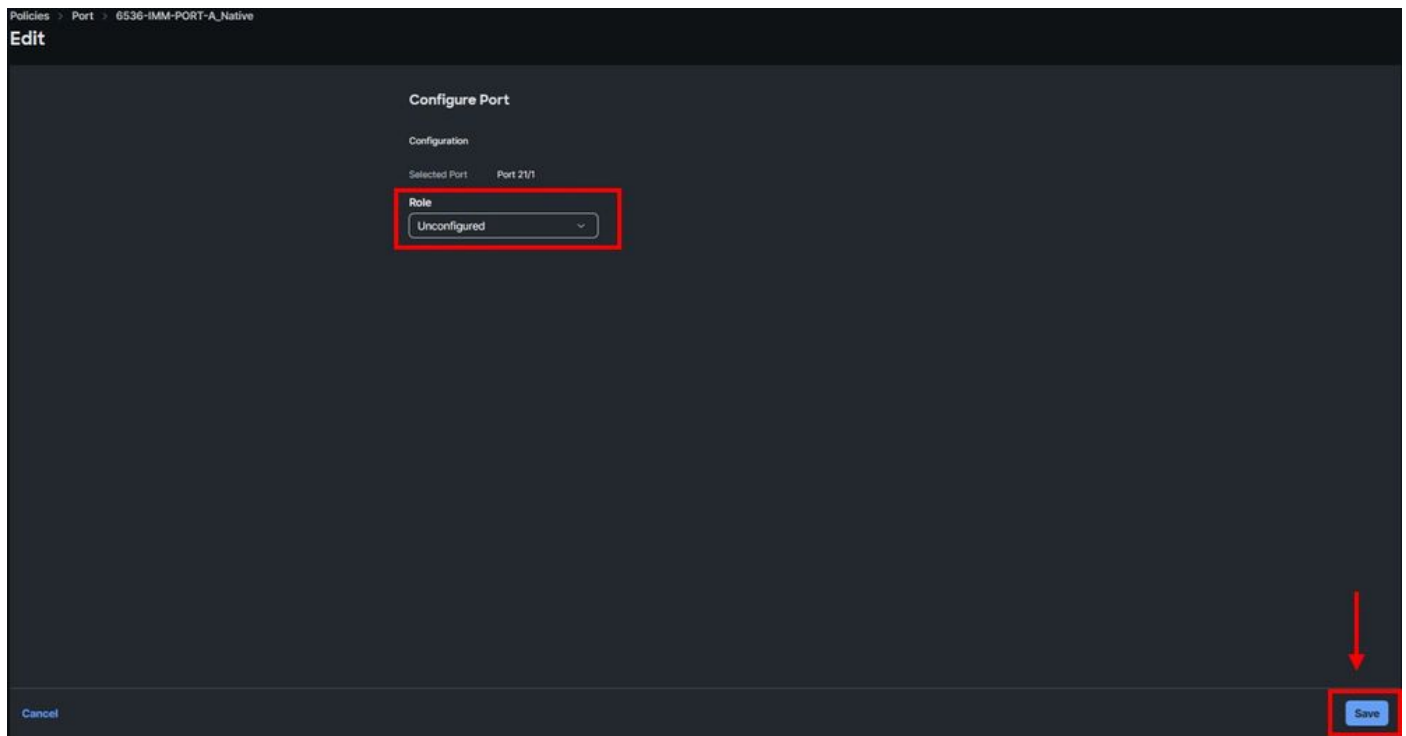
Ethernet Uplink Port Channel

Server

Unconfigured

FC Uplink

The screenshot shows the 'Edit' configuration page for a port. The left sidebar has four options: 'General', 'Unified Port', 'Breakout Options', and 'Port Roles'. The 'Port Roles' option is selected and highlighted with a red box. The main area is titled 'Port Roles' and contains a sub-header 'Configure port roles to define the traffic type carried through a unified port connection.' Below this, there are three tabs: 'Port Roles', 'Port Channels', and 'Pin Groups'. The 'Port Roles' tab is active, showing a 'Configure' button and a table of port roles. A red arrow points to the 'Port Roles' tab. The table has columns for 'Selected Ports', 'Port 21/1', and 'Clear Selection'. The table contains 24 rows of port role configurations, each with a 'Port Role' column and a 'Port 21/1' column. The 'Port Role' column shows various roles like 'Ethernet Uplink Port Channel', 'Server', 'Unconfigured', and 'FC Uplink'. The 'Port 21/1' column shows a grid of port role configurations.



步驟3.將CIMC更改為預設設定

關閉伺服器電源並拔下電源線。

等待2分鐘，然後重新連接電源線。

使用顯示器和鍵盤將KVM電纜連線到伺服器的控制檯埠。

監控伺服器啟動過程，直到進入Cisco選單並按F8鍵進入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:	☒	None:	☒
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:	☒	IPV6:	☐
DHCP enabled	☐		
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並啟用Factory Default。

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:	☒	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儲存更改並重新啟動伺服器。

步驟4.將CIMC配置為獨立模式

監控伺服器啟動過程，直到進入Cisco選單，然後按F8再次進入Cisco IMC Configuration Utility。

套用下一個組態：

- 選擇為專用的NIC模式
- IP到IPv4
- CIMC IP，其IP與您的電腦位於同一子網中。
- NIC冗餘到無
- 無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
```

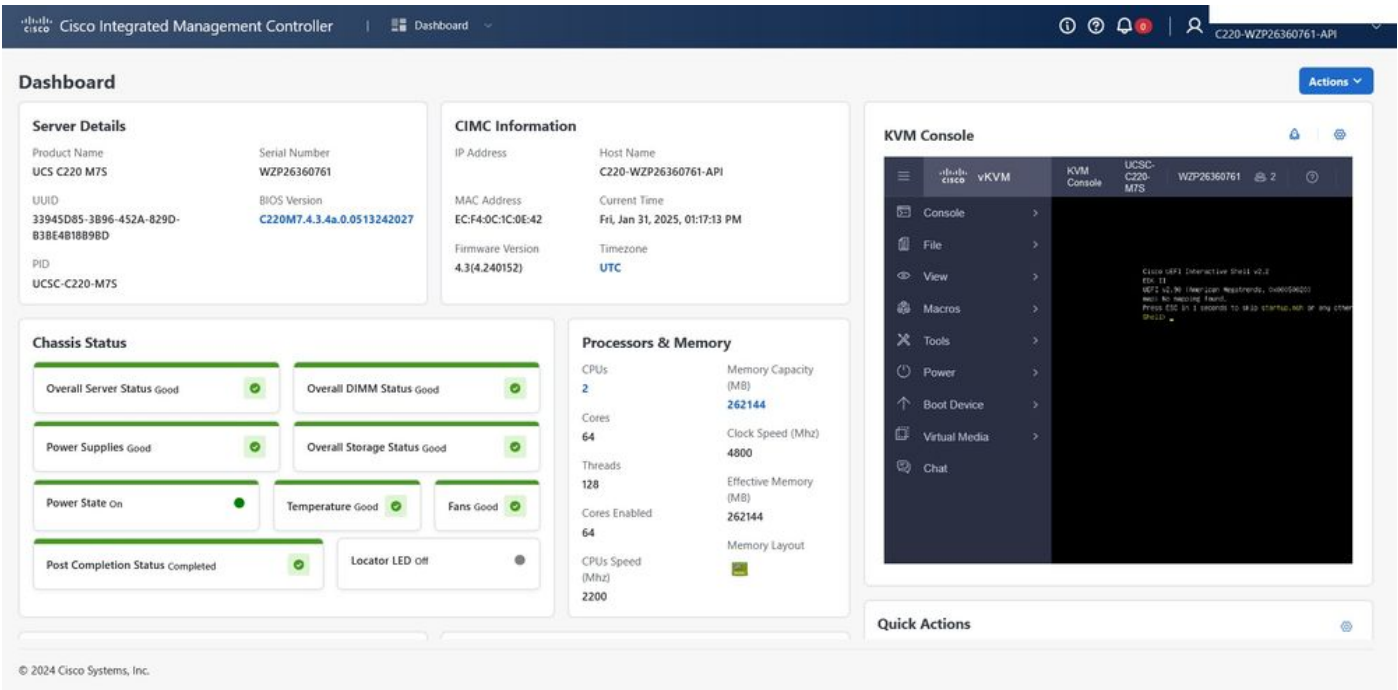
按F10儲存更改並重新啟動伺服器。

將電腦連線到伺服器上的物理管理埠，並開啟Web瀏覽器。

使用您配置的IP <https://x.x.x.x>



CIMC提示檢視和當前CIMC版本：



重新映像韌體版本

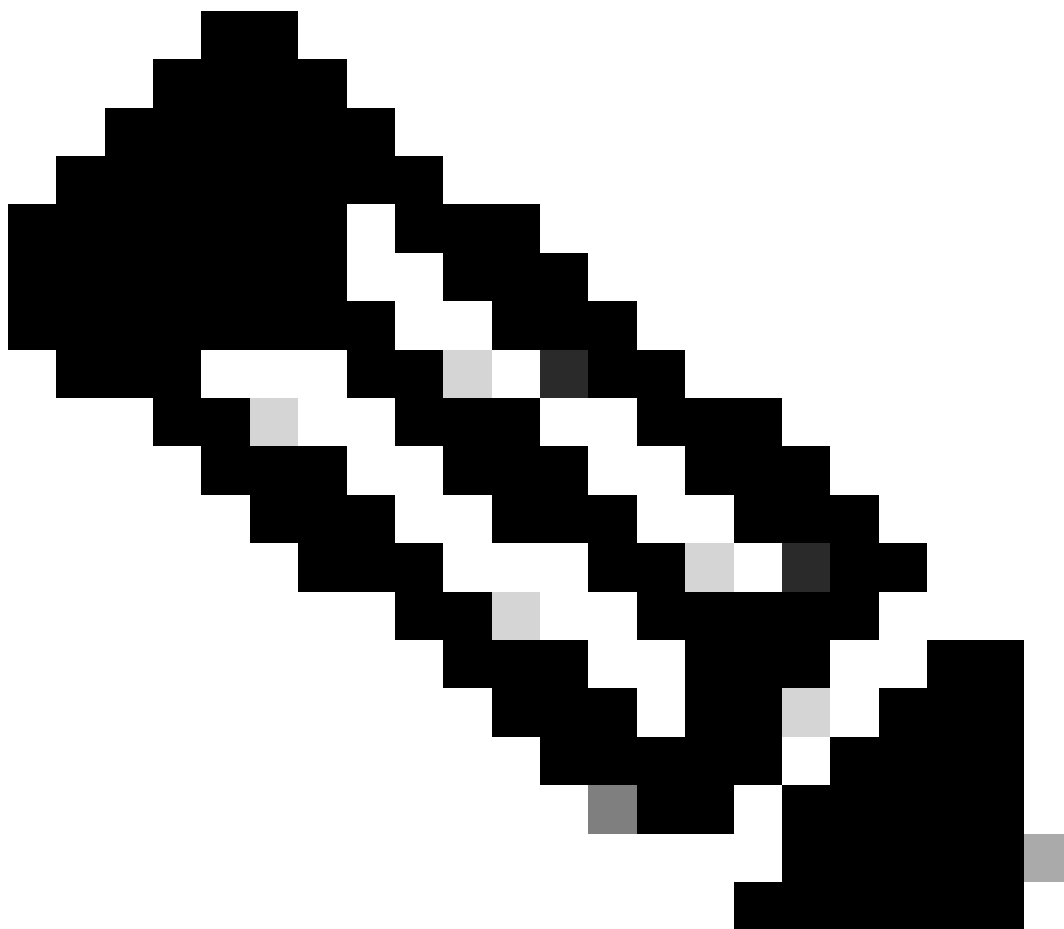


附註：如果您的伺服器整合回Intersight，強烈建議重新映像韌體版本。

步驟1.下載主機升級實用程式(HUU)ISO

您可以從software.cisco.com下載HUU ISO。

步驟2.啟動KVM並對映HUU ISO



附註：如果您願意，可以展開KVM頁籤，導航到Actions > System並按一下Launch KVM。

Dashboard

Server Details

Product Name UCS C220 M75	Serial Number WZP26360761
UUID 33945D85-3B96-452A-629D-B3BE4B18B9BD	BIOS Version C220M7.4.3.4a.0.0513242027
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	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

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

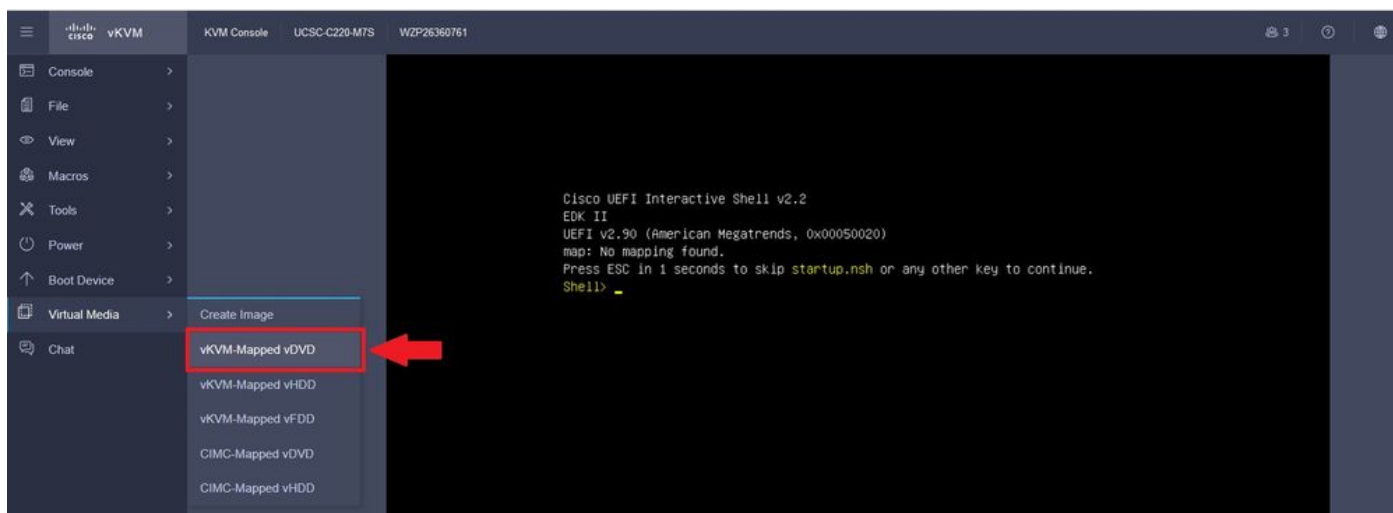
KVM Console

Actions ^

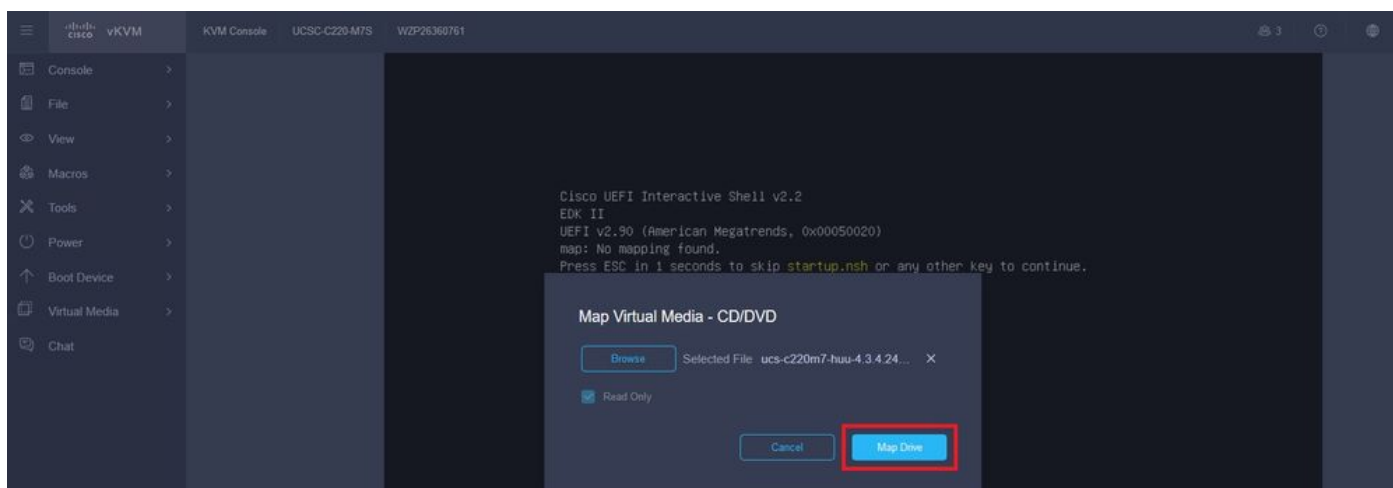
- CIMC Reboot
- Launch KVM
- Ping
- Turn On LED
- Power
- System

下載當前版本的HUU後，導航至CIMC，然後在右側，檢視KVM控制檯並在Virtual Media上刪除

, 然後按一下vKVM-Mapped vDVD並對映ISO檔案：



對映CD/DVD上的HUU:



步驟3.使用HUU ISO啟動

重新啟動伺服器並監控引導過程，直到進入Cisco選單並按F6鍵進入引導選單。



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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 ...

選擇vKVM-Mapped vDVD選項以啟動HUU ISO對映：

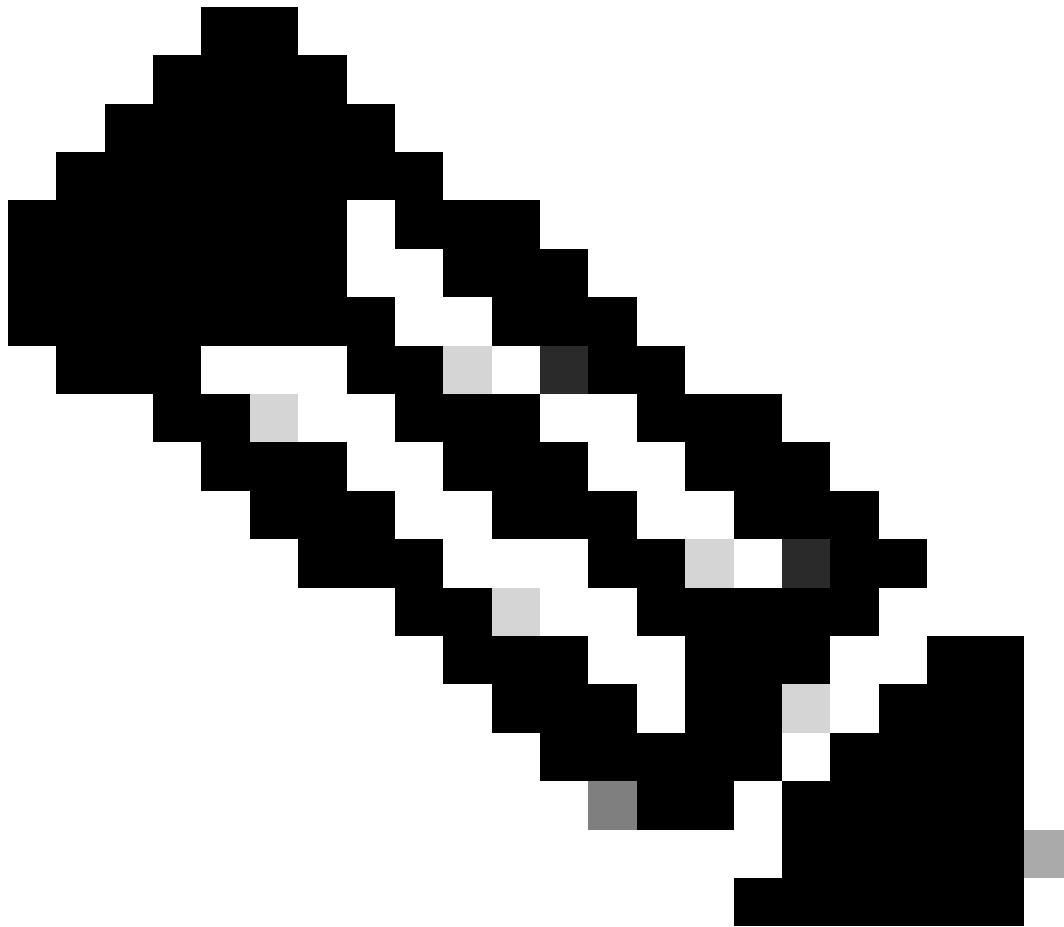
Please select boot device:

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



附註：載入HUU ISO可能需要幾分鐘時間。

步驟4.重新映像當前版本

等待HUU ISO載入並接受思科軟體許可協定。



HOST UPGRADE UTILITY

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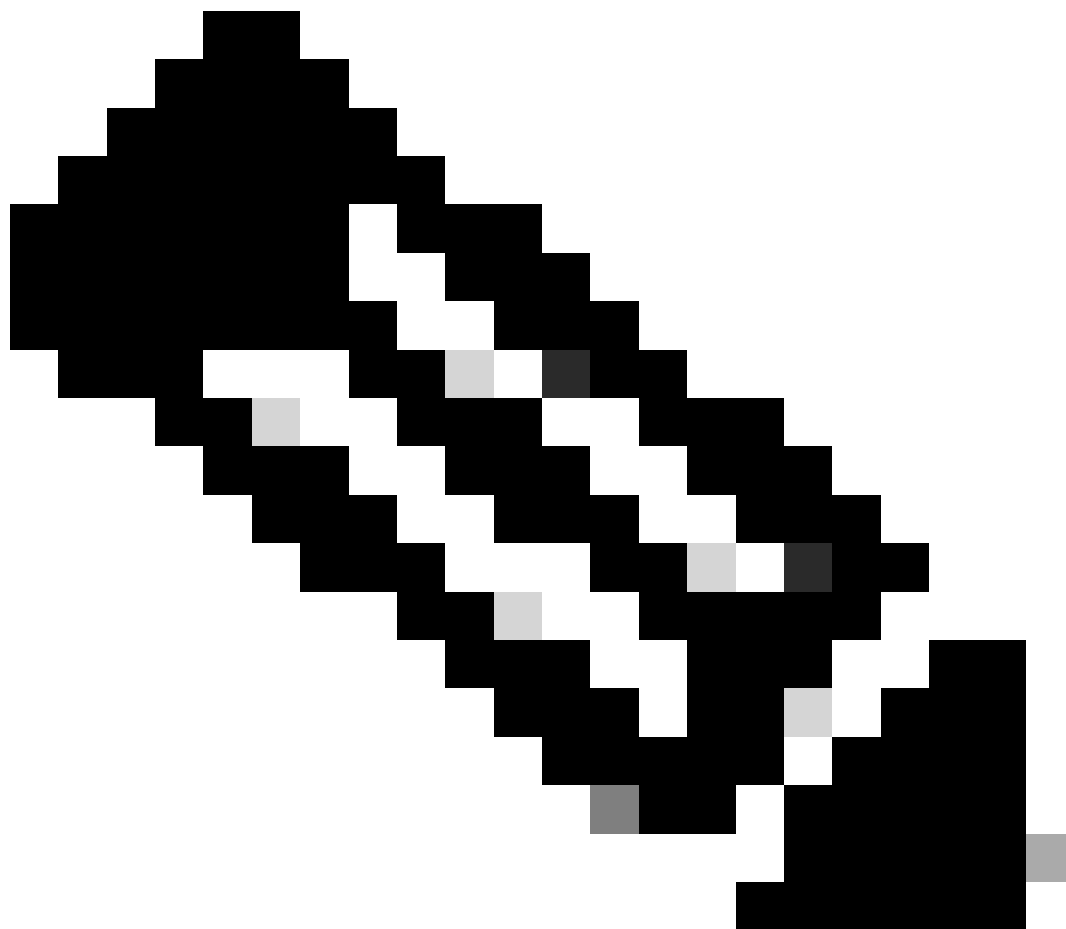
Reject

Accept

切換到Advanced Mode並選擇所有元件，然後按一下Update & Activate。

請等待，直到映像完成並重新啟動伺服器。

將伺服器整合到Cisco Intersight



附註：在將伺服器整合到Intersight之前，將CIMC和VIC介面卡重置為出廠預設設定非常重要，以便可以正確配置它們。

步驟1.將BMC和VIC設定為出廠預設值

導覽至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	Status
Cisco IMC Configuration Import/Export	Status
PID Catalog	Status
Inventory Data	Status
VIC Adapter Import/Export	Status
Factory Default Status	Status

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

COMPLETED (100%)

Thu, 30 Jan 2025 10:28:12 +0000

boot

NONE

NONE

NONE

N/A

N/A

N/A

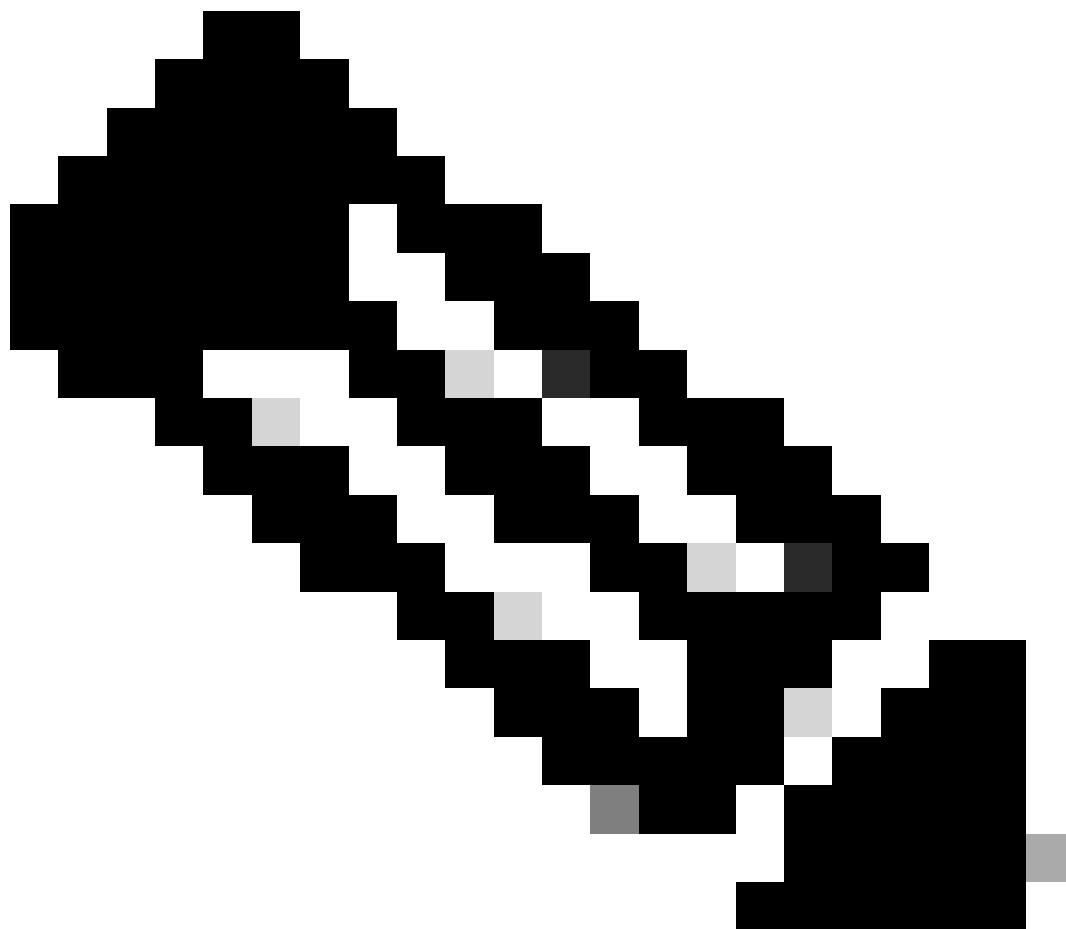
NONE

NONE (N/A)

NONE

N/A

N/A

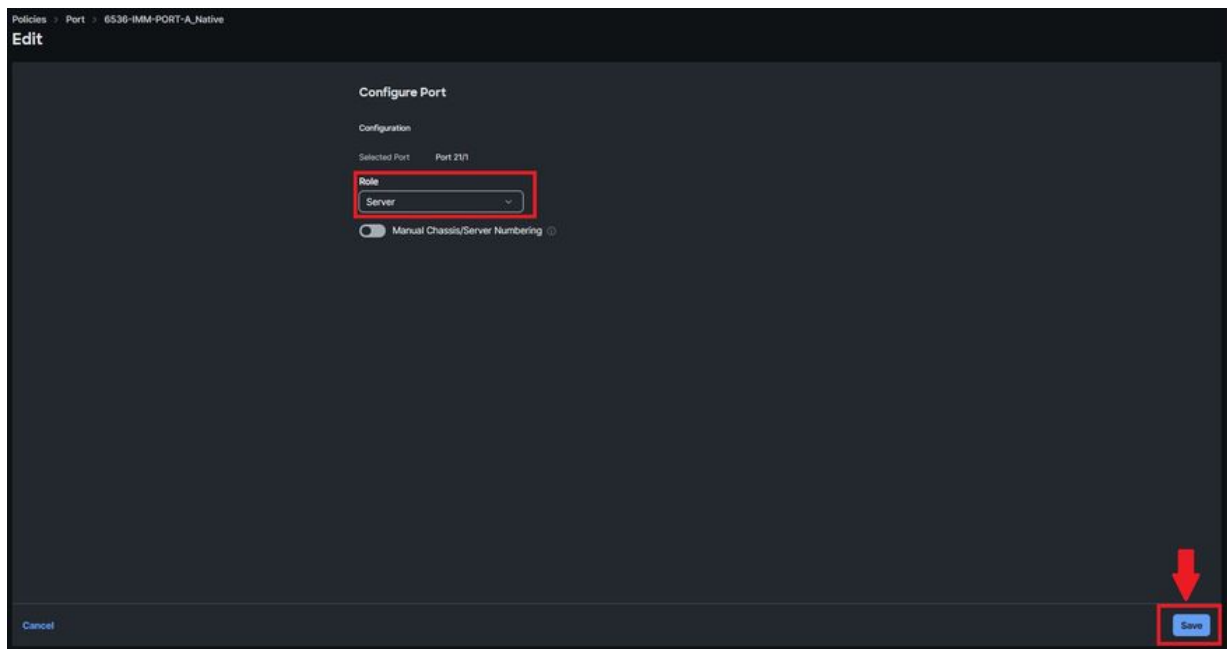


附註：無需重置為預設儲存裝置。如果選中該選項，則會清除虛擬驅動器和寫入磁碟的資料。

步驟2.將埠重新配置為伺服器埠

導航到交換矩陣互聯頁籤> UCS域配置檔案，然後選擇埠策略。

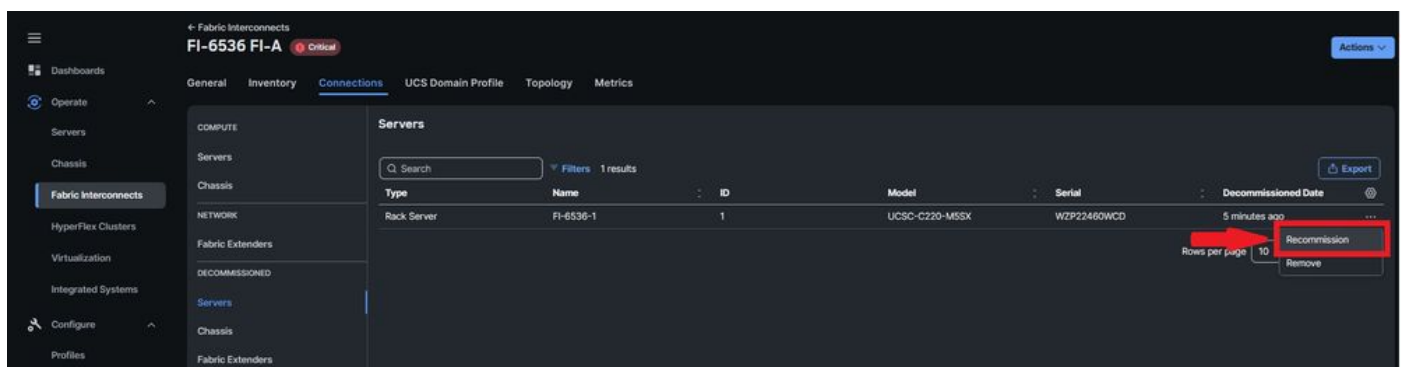
在埠角色頁籤中。選擇以前配置為Unconfigured狀態的埠。按一下Configure並選擇埠角色作為Server port。儲存更改並重新部署域配置檔案，在交換矩陣互聯B上重複相同的過程。



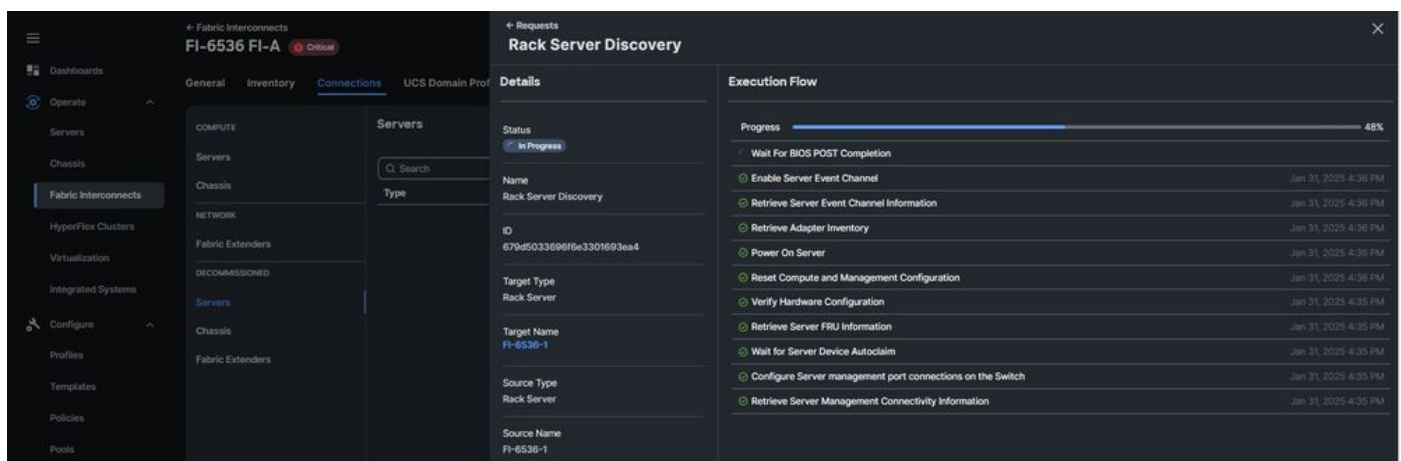
將所需的埠從網路介面卡連線到交換矩陣互聯埠。

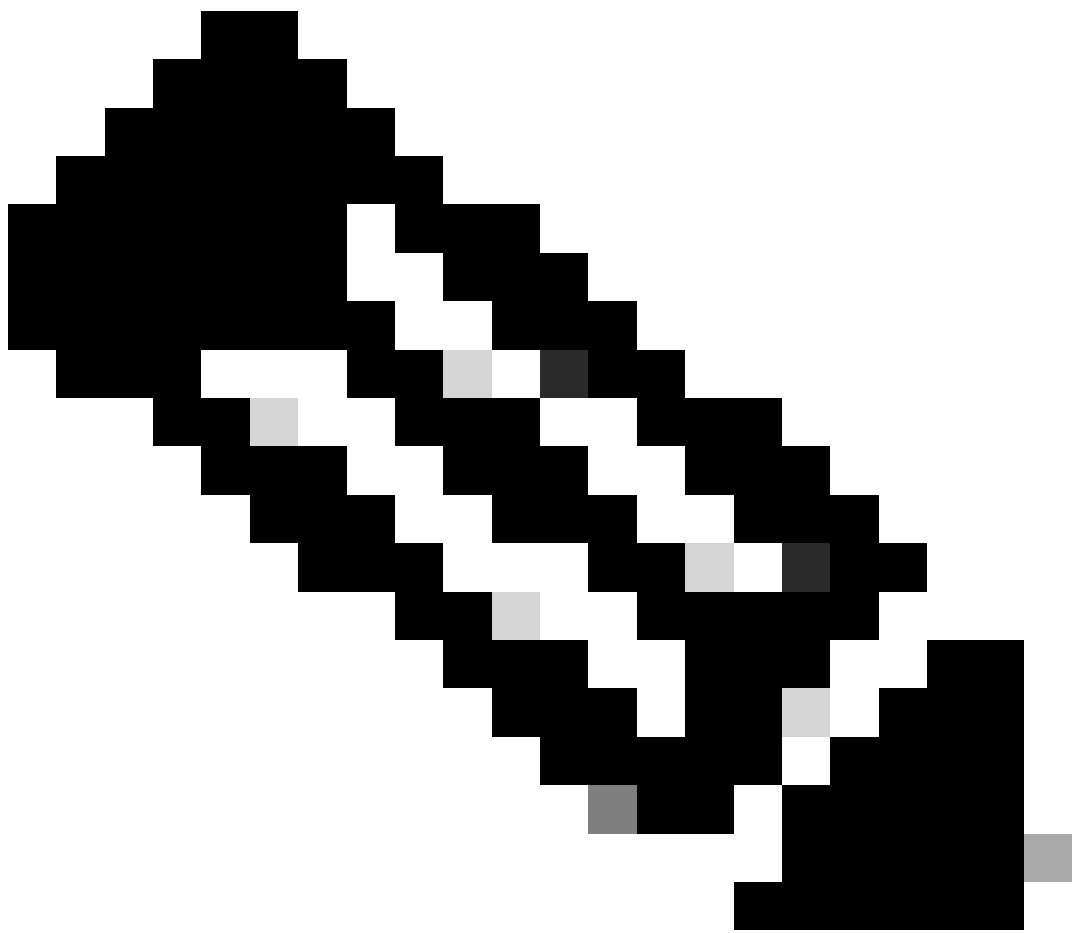
步驟3.重新運行伺服器

導覽至Fabric Interconnects索引標籤。選擇連線到伺服器的Fabric Interconnect。按一下Connections頁籤，然後在Deaderated區域中選擇Servers。選擇伺服器並重新委託它。



您可以在Requests頁籤中監視伺服器發現過程。





附註：發現過程可能需要幾分鐘才能開始。

驗證

為了進行驗證和通過CLI確認C系列伺服器已正確整合，可以運行以下命令：

```
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

相關資訊

- [Cisco Intersight託管模式配置指南](#)
- [思科UCS C系列伺服器整合管理控制器CLI配置指南4.3版](#)
- [技術支援與文件 - Cisco Systems](#)

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。