

將整合UCS C系列伺服器配置為獨立模式

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簡介

本文檔介紹如何將整合到UCS Manager中的UCS-C系列伺服器配置為獨立模式並重新映像其韌體版本。

必要條件

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UCS Manager (UCSM)的基本瞭解
- 對思科整合管理控制器(CIMC)的基本瞭解
- 對網路有基本的瞭解。

採用元件

本檔案所述內容不限於特定軟體版本。

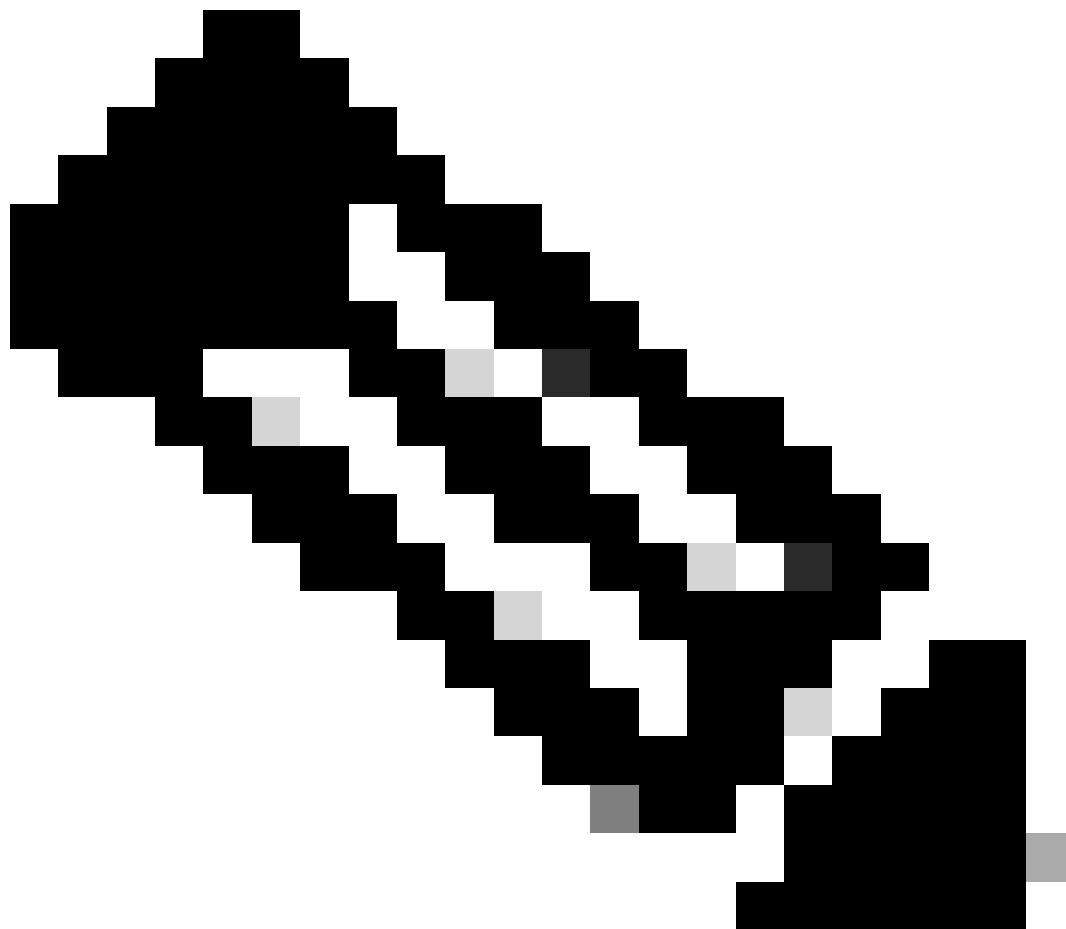
本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

嘗試此組態之前，請確認您已具備這些需求。

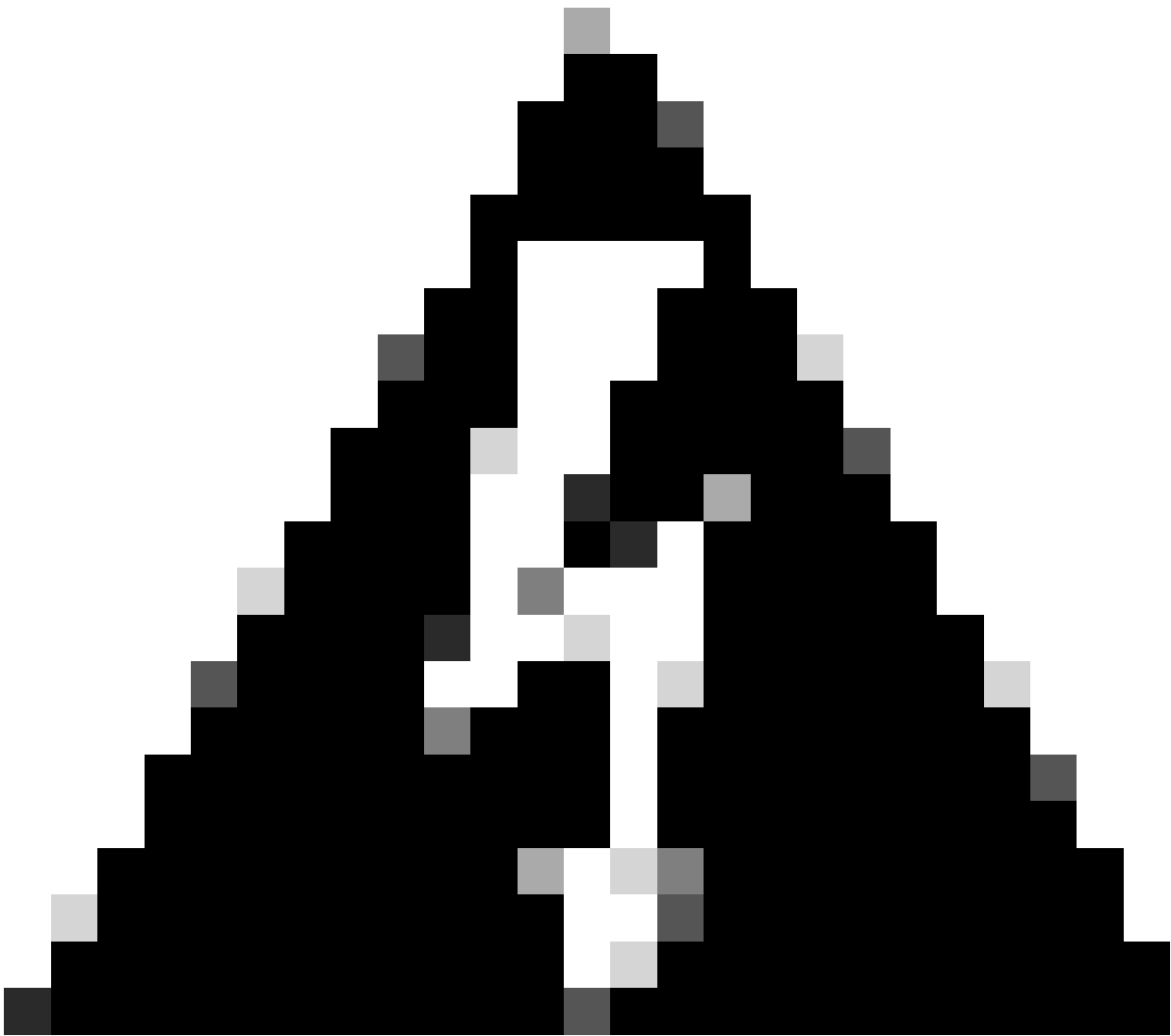
- 連線到C系列伺服器的電腦。
- KVM纜線
- 監視
- 鍵盤
- 連線到管理埠的1G電纜

設定



注意：沒有TAC建議，請勿執行此過程。

將伺服器置於獨立模式



警告：開始此程式之前，請確認伺服器已關機。

步驟 1. 停用伺服器

轉到UCS Manager Web介面。

導航到裝置 > 機架安裝 > 伺服器x

The screenshot shows a web-based server management interface. On the left is a navigation menu with categories like Equipment, Rack-Mounts, Servers, Fabric Interconnects, and Policies. The 'Servers' section is expanded, showing 'Server 1' selected. 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'. Under the 'General' tab, there is a 'Fault Summary' section with four status indicators: a red 'X' (0), a red 'V' (0), a yellow 'A' (1), and a green 'D' (1). Below that is a 'Status' section showing 'Overall Status : Power Off' and a 'Status Details' button. The 'Actions' section contains a list of operations: 'Create Service Profile', 'Associate Service Profile', 'Set Desired Power State', 'Boot Server', 'Shutdown Server', 'Reset', 'Recover Server', 'Server Maintenance' (highlighted with a red box), 'KVM Console >>', 'SSH to CIMC for SoL >>', and 'Turn on Locator LED'. On the right side, there is a 'Physical Display' image of a server rack and a 'Properties' section with various fields like ID, Product Name, Vendor, etc.

按一下Server Maintenance，然後選擇Decommission

The screenshot shows a dialog box titled 'Maintenance Server 1' with a close button (X) in the top right corner. The text inside the dialog reads: 'You are attempting to perform server maintenance. Please select a maintenance task:'. Below this 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, indicated by a filled radio button. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.



注意：如果伺服器已停用，則不會顯示在機架安裝上，而是顯示在Equipment > Decommissioned > Rack-Mounts 下

步驟 2.取消配置伺服器埠

導航到裝置>矩陣互聯 >矩陣互聯A > 固定模組 > 乙太網埠 > 埠x。

按一下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

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

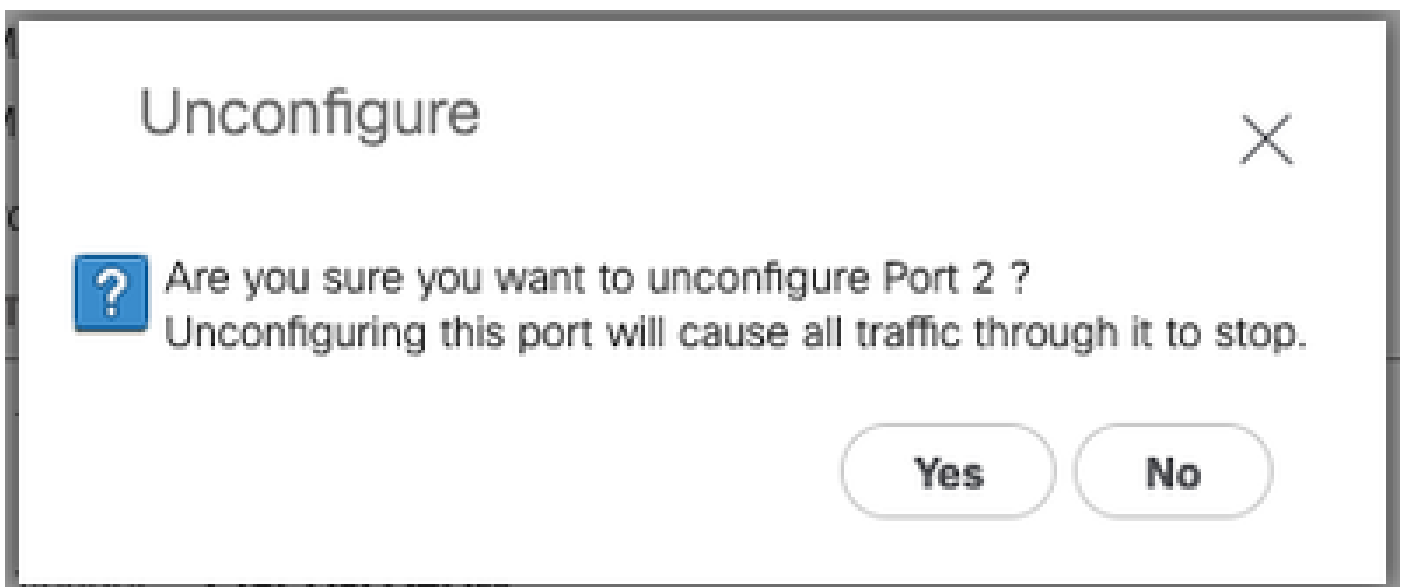
Vendor : CISCO-FYCO

Serial : TED2433A1P6

License Details

License State : License OK

License Grace Period : 0



對交換矩陣互聯B重複相同的步驟

導航到裝置>矩陣互聯 >矩陣互聯B > 固定模組 > 乙太網埠 > 埠x。

按一下Unconfigure。

步驟 3.將CIMC更改為預設設定

關閉伺服器的電源並拔下電源線。

等待2分鐘，然後再次連線電源線。

使用監視器和鍵盤將KVM電纜連線到伺服器。

監控伺服器啟動過程，直到您到達Cisco選單，然後按F8進入Cisco IMC配置實用程式。



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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

按F1並啟用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
```

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，直到您到達Cisco選單，然後按F8再次進入Cisco IMC配置實用程式。

套用下一個組態：

- NIC模式已選擇為專用
- IP到IPV4
- CIMC IP，其中IP與電腦位於同一子網中。
- NIC備援變成無
- 無VLAN

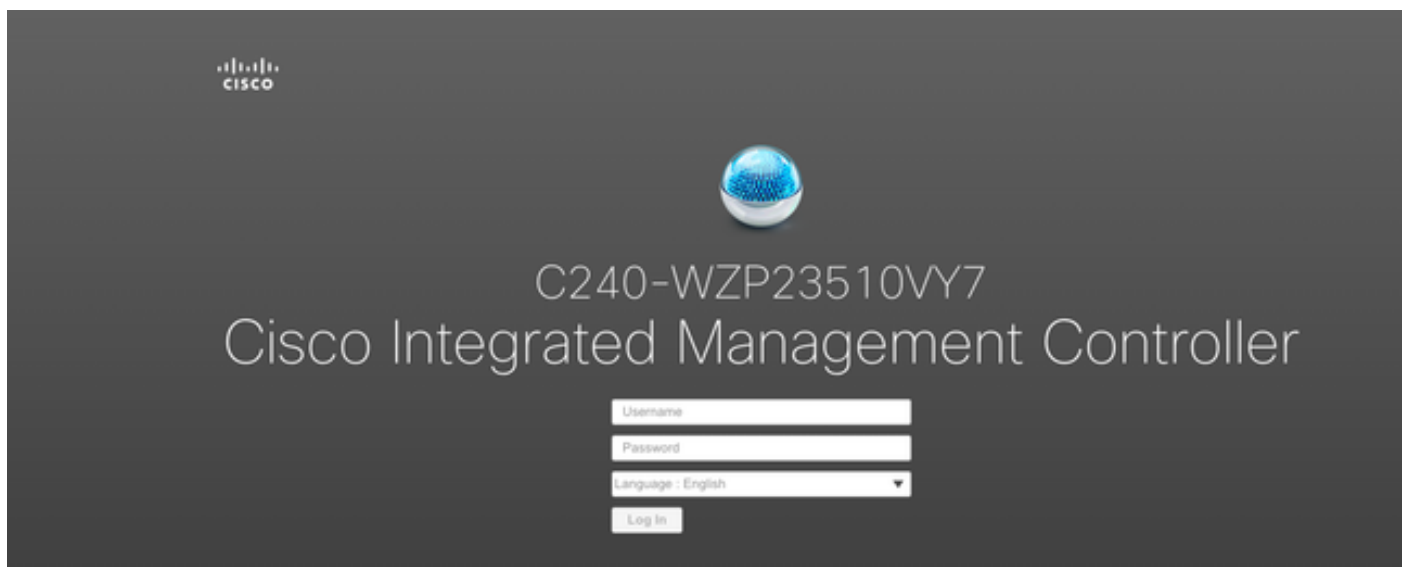
Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.

```
*****
NIC Properties
NIC mode                               NIC redundancy
Dedicated:      [X]                   None:           [X]
Shared OCP:     [ ]                   Active-standby: [ ]
Cisco Card:
  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，並打開Web瀏覽器。

使用您配置的IP <https://x.x.x.x>





註：admin使用者的預設密碼是password

CIMC提示檢視和當前CIMC版本

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

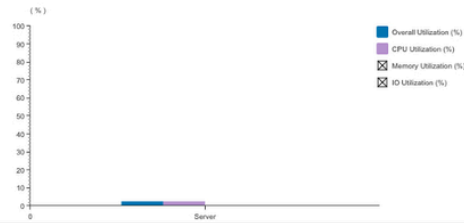
Cisco Integrated Management Controller (Cisco IMC) Information

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

Chassis Status

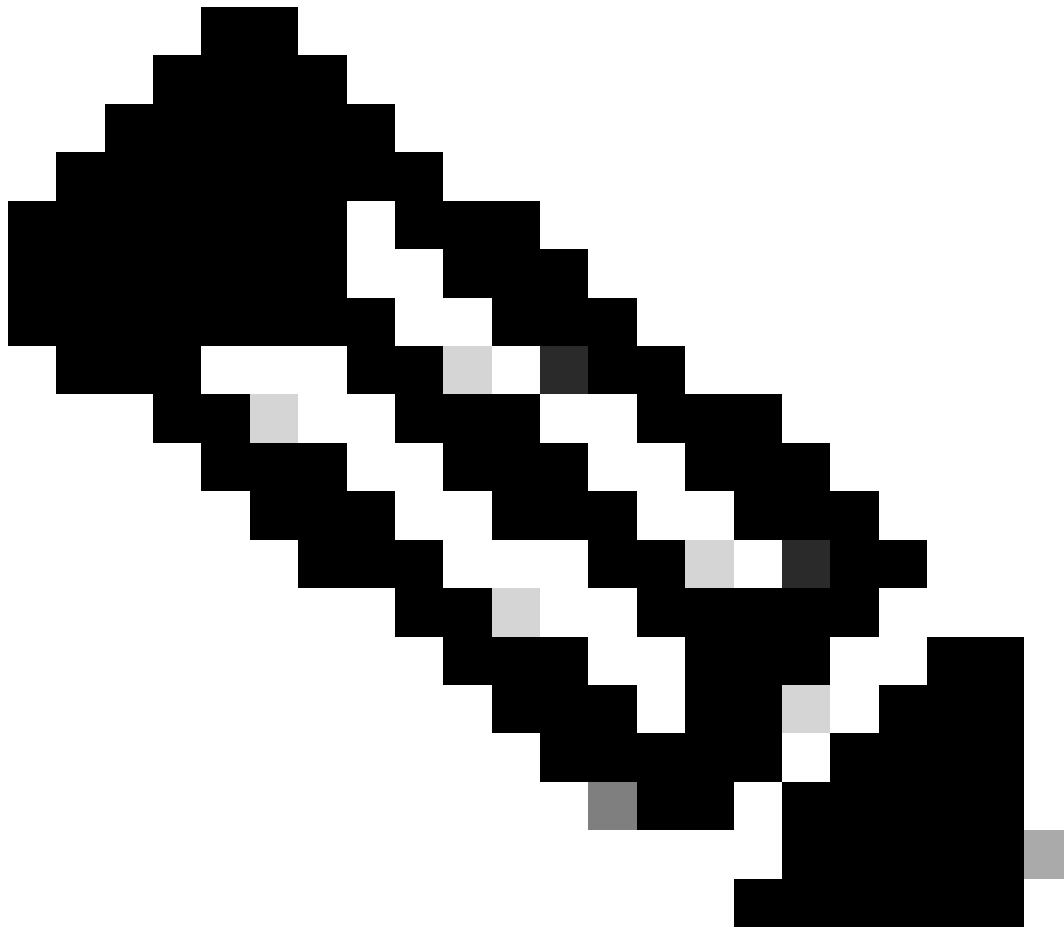
- Power State: On
- Post Completion Status: Completed
- Overall Server Status: Good
- Temperature: Good
- Overall DIMM Status: Good
- Power Supplies: Good
- Fans: Good
- Locator LED: Off
- Overall Storage Status: Good

Server Utilization



Save Changes | Reset Values

重新映像韌體版本



註：如果您的伺服器整合回UCSM，則強烈建議重新映像韌體版本

步驟 1. 下載Host Upgrade Utility (HUU) ISO。

重新映像是透過HUU完成的。您可以在[思科下載頁](#)下載HUU ISO

步驟 2. 啟動KVM並對映HUU ISO。

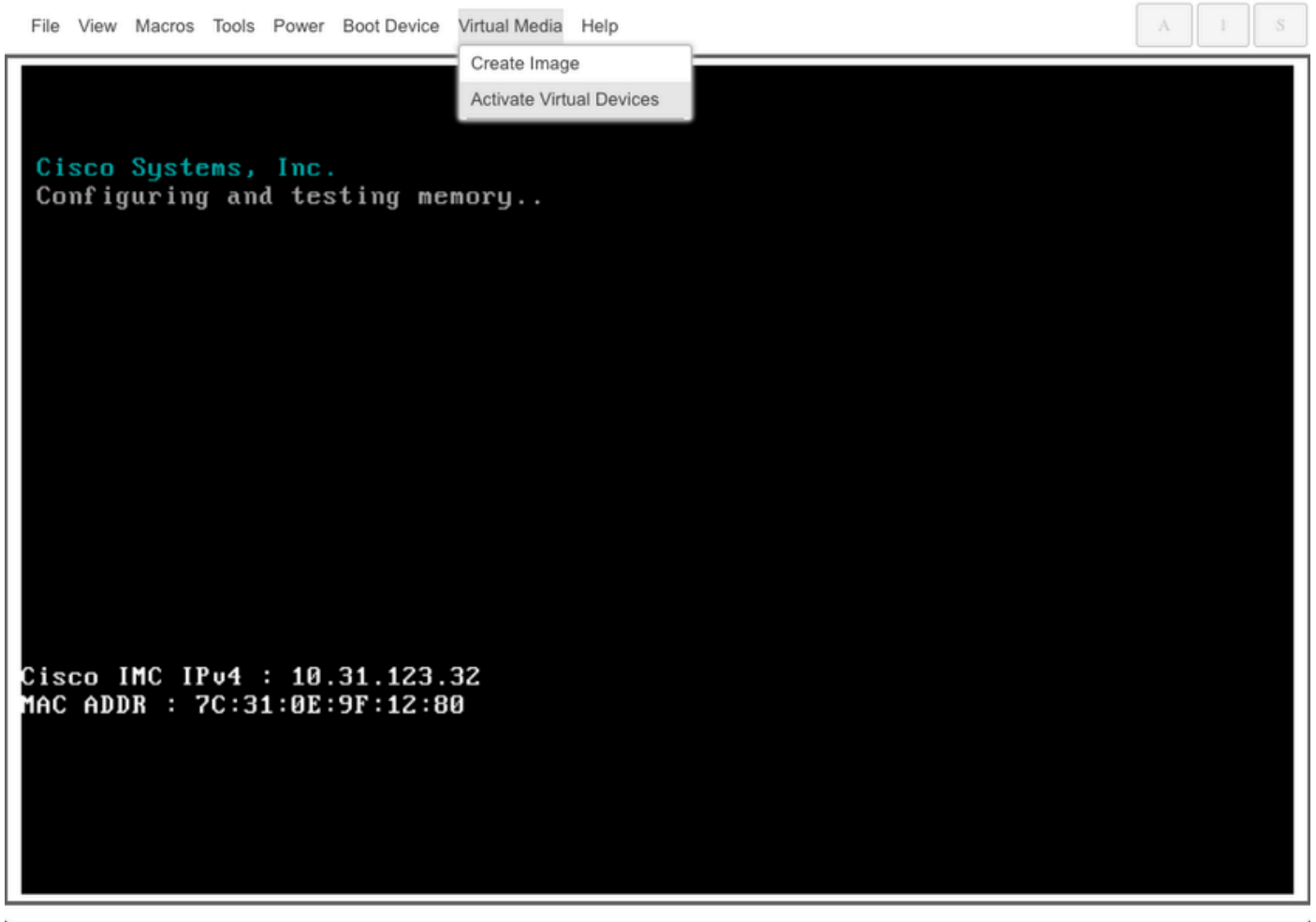
下載當前版本的HUU後，轉至CIMC並按一下Launch KVM

The screenshot displays the Cisco Integrated Management Controller (CIMC) web interface. The top navigation bar includes a search icon, the Cisco logo, and the text "Cisco Integrated Management Controller". On the right side of the navigation bar, there is a user profile "admin@", a signal strength indicator, and a battery level indicator showing "0". Below the navigation bar, the page title is "Chassis / Summary". The main content area is divided into several sections:

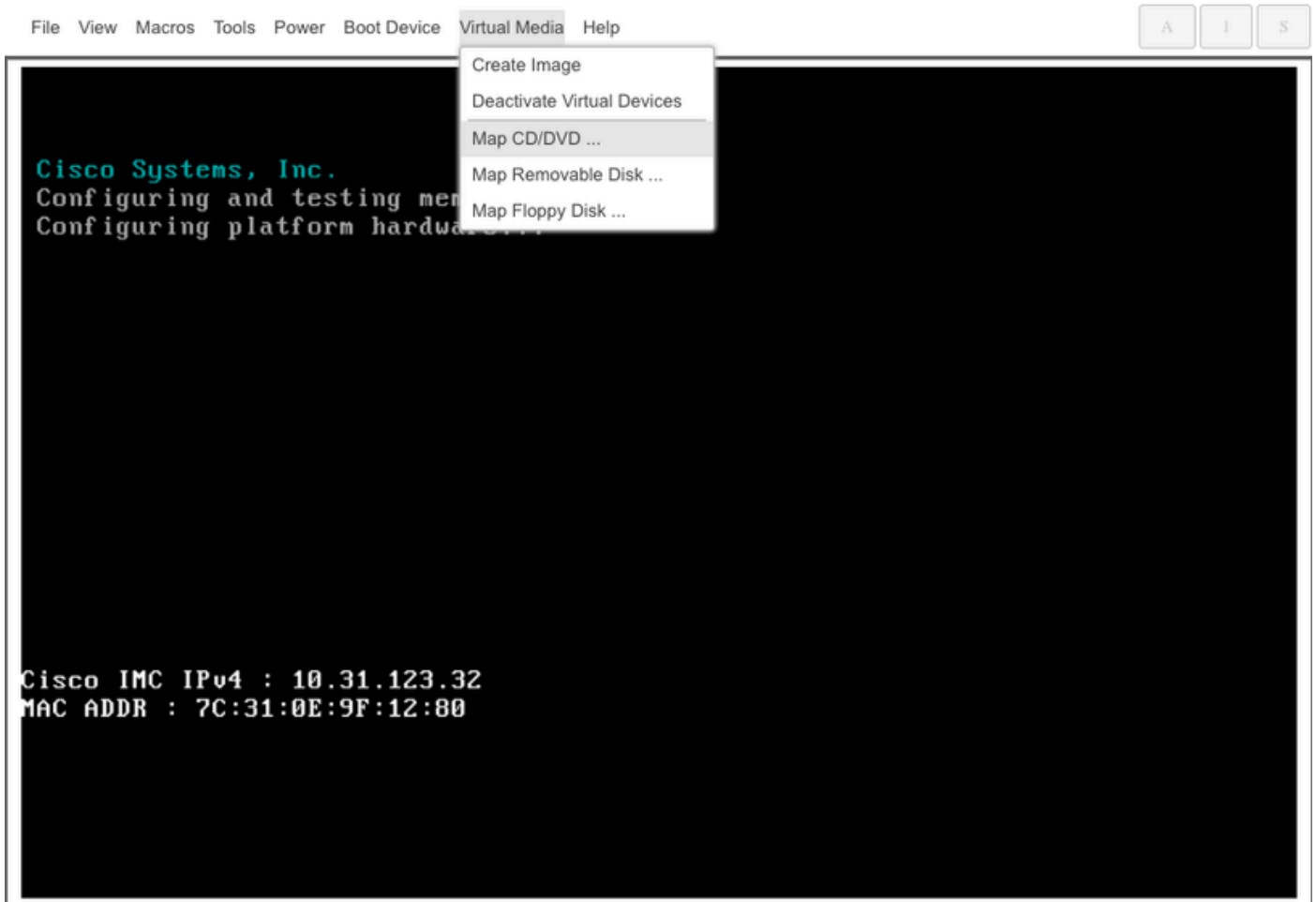
- Server Properties:** Lists details such as Product Name (UCS C240 MSSD), Serial Number (WZP23510VY7), PID (UCSC-C240-MSSD), UUID (F0E2F2ED-AD46-4328-8E14-C3E1970B9539), BIOS Version (C240M5.4.2.2b.0.0613220203), Description, and Asset Tag (Unknown).
- Cisco Integrated Management Controller (Cisco IMC) Information:** Lists 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", and "Off".
- Server Utilization:** A bar chart showing utilization percentages for Overall, CPU, Memory, and IO. The chart shows very low utilization across all categories.

At the bottom right of the page, there are two buttons: "Save Changes" and "Reset Values".

一旦vKVM啟動，請點選虛擬媒體並啟用虛擬裝置



在Map CD/DVD上對映HUU



步驟 3.使用HUU ISO啟動。

監控伺服器啟動過程，直到您到達Cisco選單，然後按F6進入啟動選單。



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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 ...

選擇vKVM-Mapped vDVD選項以引導HUU ISO對映。

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



注意：載入HUU ISO可能需要幾分鐘。

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

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切換到高級模式並選擇所有元件，然後按一下更新和啟用。

HOST UPGRADE UTILITY v4.2.2a | UCS-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

請等候重新映像完成，然後伺服器重新啟動。

將伺服器整合到UCS Manager

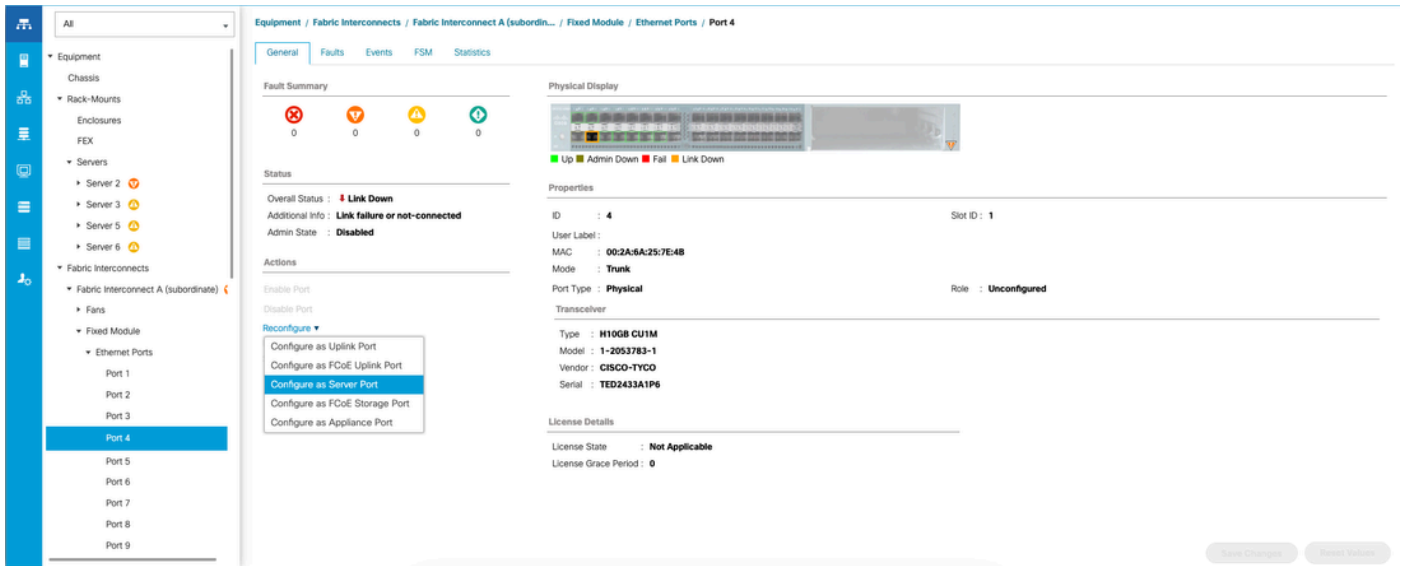
步驟 1.將CIMC設定為出廠預設設定。

重複與將伺服器置於獨立模式上步驟3相同的步驟

步驟2.-將埠重新配置為伺服器埠

導航到裝置>矩陣互聯 >矩陣互聯A > 固定模組 > 乙太網埠 > 埠x。

按一下Reconfigure並選擇Configured as Server Port。



對交換矩陣互聯B重複相同的步驟

導航到裝置>矩陣互聯 >矩陣互聯B > 固定模組 > 乙太網埠 > 埠x。

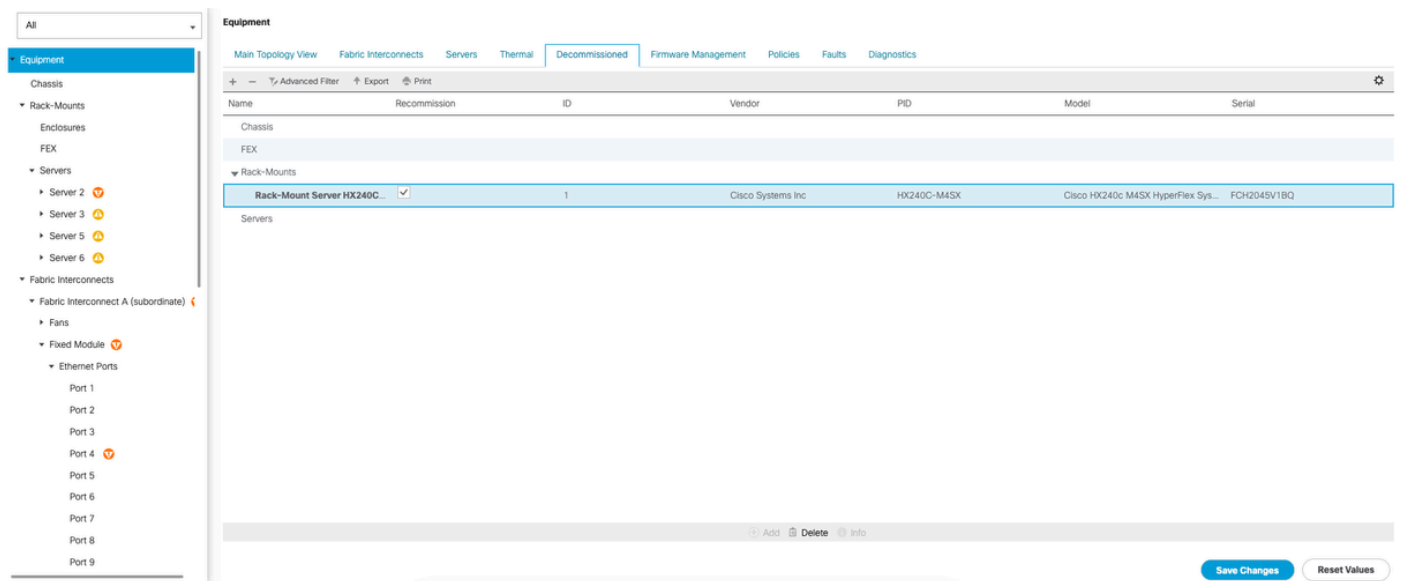
按一下Reconfigure並選擇Configured as Server Port。

步驟3.連線介面卡電纜

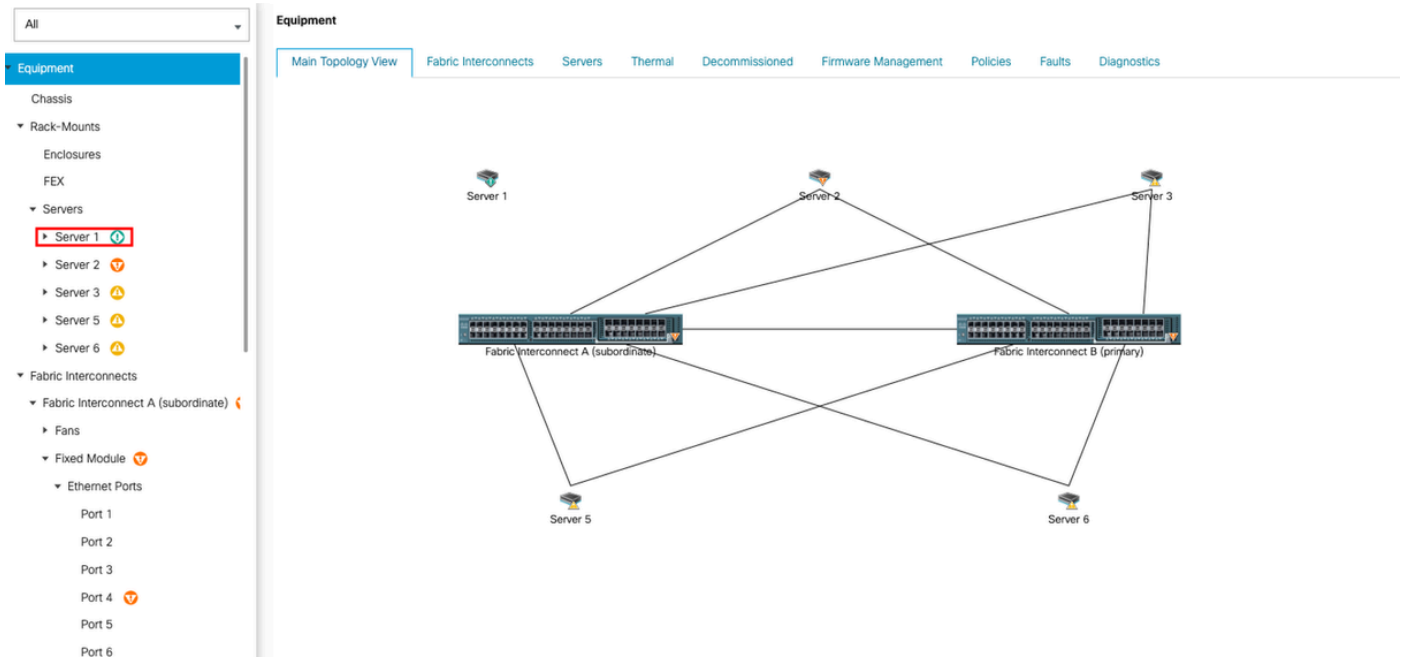
將埠1連線到VIC卡的FI-A，將埠3連線到FI-B。

步驟 4.重新啟動伺服器。

轉至Equipment > Decommissioned > Rack-Mounts，選中Recommission覈取方塊，並儲存更改。



請等候您再次看到伺服器。



您可以透過伺服器FSM監控伺服器探索。

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 Port 1 and	Configuring fabric interconnect connect...	Success	2023-09-26T17:02:15Z	1

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

Save Changes Reset Values

注意：發現過程可能需要幾分鐘才能開始

一旦伺服器完成發現過程，就會開始關聯服務配置檔案(SP)。

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 iBMC Fw	Update CIMC firmware of server 1(FSM-...	Skip	2023-09-26T23:03:45Z	0
4	Associate Wait For iBMC 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 iBMC C...	Associate CIMC Remote of server 1(CIMC...	Skip	2023-09-26T23:03:45Z	0

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

Save Changes Search Values

完成探索與關聯之後，您可以啟動伺服器並讓它回到生產狀態。

相關資訊

- [UCS C系列與Cisco UCS Manager的整合](#)
- [UCS C系列伺服器公用程式](#)
- [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）。