# 使用Cisco UCS Manager發現機箱的過程

### 目錄

<u>簡介</u> 配置裝置策略 配置埠 確認機箱 相關資訊

# 簡介

本檔案介紹使用Cisco Unified Computing System(UCS)Manager發現機箱的程式。物理連線和群集 配置完成後,下一步是配置策略和埠以執行機箱發現。 在本文中,您可以看到如何配置裝置策略和 發現機箱。一旦發現機箱,您可以在UCS管理器的「裝置」頁籤中看到機箱元件(如伺服器模組、 IO介面卡)。

### 配置裝置策略

1. 假設每個I/O模組(IOM)到交換矩陣互聯(FI)只有一個連線。

# cisco



#### 2. 登入到UCS管理器。

3. 導航到Equipment > Policies > Global policies。

Tault Summary	I New * 2 Options 0 O A Pending Activities 2 Exit
🛛 🔍 🛆 🔷 🖉	>> 🙀 Equipment
9 52 2 24	👬 Main Topology View 🗰 Fabric Interconnects 🥪 Servers 🖌 Thermal 👒 Decommissioned 📥 Firmware Management 😳 Polocos 🔀 Faults
Equipment Servers LAN	Coobul Policies Autoconfig Policies Server Inheritance Policies Blade Server Discovery Policies SEL Policy Power Croups
Filter: All	Chassis (FDX Discovery Policy
Poor Poor Poor Poor Poor Poor Poor	Action: 1 Link   Link Grouping Preference: None   Rati Server Discovery Kolicy   Action:   Immediate   User Acknowledged   Scrub Policy:   cnot set>
	MAC Address Table Aging
	Redundancy: Non Redundant N+1 Grid

在Chassis/FEX discover policy頁籤中,您應該選擇單個IOM和交換矩陣互聯對之間連線的鏈路數。 例如,在之前顯示的圖形中,每個IOM與其關聯的交換矩陣互聯有一個連線。因此,將建立**1連結**策 略。此策略基本上只是指定需要存在多少個連線才能發現機箱。

在Power Policy頁籤中,選擇以下選項之一:

在Power Policy區域中,按一下Redundancy欄位中的以下單選按鈕之一:

- 非冗餘 所有已安裝的電源都開啟且負載均衡。只有較小的配置(要求小於2500W)才能由 單個電源供電。
- n+1 滿足非冗餘的電源總數加上一個用於冗餘的額外電源已開啟,並平均分擔機箱的電源負載。如果安裝了任何其他電源,Cisco UCS Manager會將電源設定為「關閉」狀態。
- 電網 開啟兩個電源,或者機箱需要大於N+1的冗餘。如果一個電源發生故障(導致一個或兩個電源斷電),另一個電源電路上仍存在的電源繼續為機箱供電。

#### 配置埠

步驟1.從「裝置」頁籤導航到「**交換矩陣互聯」>「交換矩陣互聯A/B」**。然後根據需要展開任何固 定或擴展模組。將相應的未配置埠配置為**伺服器**。

**附註**:必須相應地完成從IOM到FI的佈線。例如,如果已經將埠號2從FI-A連線到IOM - A,將 埠2從FI-B連線到IOM - B,則只需配置這些埠。

步驟2.按一下右鍵該埠,並為已與IOM(機箱)連線的每個埠按一下configure as server port。

Fault Summary	G 🔘 🛛 New *	Options 🕖	0 🛕 Pending Activities 🧕 Ex	e			1
	>> 👬 Equipment • 🖬	Fabric Intercon	nects • 🚥 Fabric Interconnect 8 (s	ubordinate) * 🚥 Fixe	ed Module • Ethernet P	orts	- Ethernet Po
9 52 2 .	4 Fitter - Export 🔅	Print If Role:	<ul> <li>All Z Unconfigured N</li> </ul>	etwork Server	FCoE Uplink Unifie	d Uplink 📃 Appliance St	orage 📄 FCoE Storage 📃 Uni
former LAN	Slot	Port ID	MAC	If Role	if Type	Overall Status	Administrative State
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In the later of th	1	7	and the real galaxy	onfigured	Physical	V Slp Not Present	Disabled
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* BB Equipment	1	9	Disable	onfigured	Physical	V Slp Not Present	Disabled
► NU Chassis	1	10 0	Configure as Server Port	onfigured	Physical	Admin Down	Disabled
v I Rack-Mounts	1	11	onfigure as Uplink Port	poligured	Physical	V Slp Not Present	Disabled
I RX	1	12 0	Configure as FCoE Uplink Port	onfigured	Physical	V Slp Not Present	Disabled
Servers	1	13 (	Configure as FCoE Storage Port	onfigured	Physical	V Slp Not Present	Disabled
# Em Fabric Interconnects	1	14 (	Configure as Appliance Port	onfigured	Physical	V Slp Not Present	Disabled
Fabric Interconnect A (primary)	1	15	Inconfigure	onfigured	Physical	Admin Down	Disabled
Fixed Module	1	16	Inconfigure ECoF Unlink Port	onfigured	Physical	V Slp Not Present	Disabled
Ethernet Ports	1	19	Inconfigure Helick Port	onfigured	Physical	V Slp Not Present	Disabled
- IC Ports	1	20	Inconfigure Configure Bort	onfigured	Physical	V Slp Not Present	Disabled
Expansion Module 2	1	21	Inconfigure Pool, Storage Pont	onfigured	Physical	V Slp Not Present	Disabled
Fill Farm	1	22	Incomigure Appliance Fort	onfigured	Physical	V Slp Not Present	Disabled
E 🖼 PSUs	1	23	inconfigure both	onfigured	Physical	V Slp Not Present	Disabled
Y En Exhris Interconnect 8 (subordin	1	24 (	logy ^C	onfigured	Physical	V Slp Not Present	Disabled
T Bund Modula	1	25	CODY XMI	onfigured	Physical	V Slp Not Present	Disabled
T of Change Parts	1	26	WEAVARIAN A	una onfigured	Physical	V Slp Not Present	Disabled
a decision of the second	1	27	00:2A/6A/74:82/A2	Unconfigured	Physical	V Sip Not Present	Disabled
Port I	1	28	00:2A/6A/74:82:A3	Unconfigured	Physical	V Slp Not Present	Disabled
Port 2	1	29	00:2A/6A 74:82:A4	Unconfigured	Physical	V Slp Not Present	Disabled
Port 3	1	30	00:2A:6A:74:82:A5	Unconfigured	Physical	👽 Slp Not Present	Disabled
Port 4	1	31	00.2A.6A.74:82.A6	Unconfigured	Physical	V Slp Not Present	Disabled
- Port 5 - Port 6	1	32	00:2A:6A:74:82:A7	Unconfigured	Physical	Admin Down	Disabled

#### 步驟3.在交換矩陣互聯A上配置伺服器埠後,您可以看到如下所示的鏈路狀態。(總體狀態UP)。

	Fact Sum	miny .		00	O New *	Q Options	004	Pending Activities	🮯 Exit					1
8	V	<u> </u>		>> 👬	Equipment •	E Fabric Int	erconnects •	Fabric Interconne	ct A (primary)	<ul> <li>Exced</li> </ul>	Module • - CE	met Ports		-Ethernet Po
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-				Slot		Port ID		MAC	If Role		# Type	Overall	Status Adv	inistrative State
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				1		4		00-2A-6A-6F-6D-CB	Unconfig	pured	Physical	V Sto	Not Present	Disabled
			_	1		5		00:2A/6A/6F/6D.CC	Unconfig	ured	Physical	V Sto	Not Present 🕴 🕻	Disabled
* BB LQUD	ment			1		6		00:2A/6A/6F/6D.CC	Unconfig	sured	Physical	V Sto	Not Present 🕴 🕻	Disabled
> N/O	hassis		- 1	1		7		00:2A/6A/6F/6D/CE	Unconfig	sured	Physical	V Sto	Not Present	Disabled
Y @ R.	ack-Mounts		- 1	1		8		00:2A/6A/6F/6D/CF	Unconfig	pured	Physical	V Sto	Not Present 🕴 🕻	Disabled
9	FEX		- 1	1		9		00:2A/6A/6F/6D/D0	Fcoe Upi	link	Physical	V Stor	Not Present 1	inabled
	Servers		- 1	1		10		00-2A-6A-6F-6D-D3	Fcoe Upl	link	Physical	t Up	11	inabled
100	hair late commo	a de la	_	1		11		00:2A/6A/6F/6D/D2	Fcoe Upl	link	Physical	💙 Sfp	Not Present 🕴 🕴	Inabled
1 1 1	Fabric Interco	nnect A (pr	imaryi	1		12		00.2A/6A/6F/6D/D3	Unconfig	pured	Physical	V Sto	Not Present 🕴 🕻	Disabled
	Fixed Mod	lule		1		13		00:2A/6A/6F/6D/D4	Unconfig	sured	Physical	V Stor	Not Present 🕴 🖡	Disabled
	► -Cthern	et Ports	_	1		14		00-2A-6A-6F-6D-D5	- Unconfig	pured	Physical	V Stp	Not Present	Disabled
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	Expansion	Module 2	- 1	1		16		00-2A-6A-6F-6D-D7	<ul> <li>Unconfig</li> </ul>	ured	Physical	V Stp	Not Present 🖡 (	Disabled
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	h of theme	at Bosts	- 1	1		21		00:2A/6A/6F/6D/DC	Unconfig	pured	Physical	👽 Sfp	Not Present 4 0	Disabled
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	Fans			1		25		00:2A/6A/6F/6D/E0	Unconfig	aured	Physical	V Sto	Not Present 4 0	Disabled

#### 步驟4.同樣地,您需要在交換矩陣互聯 — B上配置埠。

Fact Summary	🔾 🕘 🛛 New •	Q Options 0 0	🛕 Pending Activities 🛛 🧕	Lot.				***
🛛 🔍 🔺 🖉	>> 👬 Equipment	Fabric Interconnects	Fabric Interconnect	8 (subordinate) • 🚥 Fi	ixed Module • Ether	met Ports	- <b>G</b> Eth	ernet Ports
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Informate Servers LAN	Slot	Port ID	MAC	If Role	If Type	Overall Status	Administrative State	10
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Filter All	1	þ	00 2A 6A 74 82 89	Server	Physical	🔮 Up	Trubled 1	
	1	,	00.2A6A74.82.8A	NEWSON,	Physical	V Sty No. Present.	Disabled	
and the second s	1	4	00.2A/6A/74/82:88	Unconfigured	Physical	V Sfp Not Present	Disabled	
The second se	1	5	00:2A/6A/74:82:8C	Unconfigured	Physical	V Sfp Not Present	Disabled	
* ss Loupment	1	6	00.2A/6A/74/82/8D	Unconfigured	Physical	V Slp Not Present	Disabled	
HU Chassis	1	7	00:2A/6A/74:82:8E	Unconfigured	Physical	V Sfp Not Present	Disabled	
P Rack-Mounts	1	8	00.2A/6A/74.82:8F	Unconfigured	Physical	V Slp Not Present	Disabled	
TX P	3	9	00:2A/6A/74:82:90	Unconfigured	Physical	V Sfp Not Present	4 Disabled	
Servers	1	10	00:2A/6A/74:82:91	Unconfigured	Physical	Admin Down	Disabled	
Fabric Interconnects	1	11	00:2A/6A/74:82:92	Unconfigured	Physical	V Sfp Not Present	4 Disabled	
Fabric Interconnect A (primary)	1	12	00:2A/6A/74:82:93	Unconfigured	Physical	V Slp Not Present	Disabled	
Fixed Module	1	13	00:2A/6A/74:82:94	Unconfigured	Physical	V Sfp Not Present	4 Disabled	
Horis - Control - Control	1	14	00.2A/6A/74/82:95	Unconfigured	Physical	V Slp Not Present	Disabled	
- FC Ports	1	15	00:2A/6A/74:82:96	Unconfigured	Physical	Admin Down	Disabled	
E Internation Module 2	1	16	00.2A/6A/74/82:97	Unconfigured	Physical	V Sfp Not Present	Disabled	
h 🕅 fans	1	17	00:2A/6A/74:82:98	Network	Physical	Link Down	1 Enabled	
h 🛄 2014	1	18	00.2A/6A/74/82:99	Network	Physical	Admin Down	Disabled	
when the second second second	1	19	00-2A-6A-74-82-9A	Unconfigured	Physical	V Sfp Not Present	Disabled	
<ul> <li>Mark Interconnect &amp; Guborov</li> </ul>	1	20	00/2A/6A/74/82/98	Unconfigured	Physical	V Slp Not Present	Disabled	
Tixed Module	1	21	00/2A/6A/74/82/9C	Unconfigured	Physical	V Sto Not Present	Disabled	
Ethernet Ports	1	22	00-2A-6A-74-82-90	Unconfigured	Physical	V Sto Not Present	Disabled	
PL PORS	1	23	00 2A 6A 74 82 9E	Unconfigured	Physical	V Sto Not Present	Disabled	
Expansion Module 2	1	24	00/2A/6A/74 82/9F	Unconfigured	Physical	V Sto Not Present	Disabled	
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		37	00.1141.74.83.83	Descention and	the stand	T the black Designed	1 Disabled	

配置埠後,機箱將被發現,並將列在裝置頁籤下。 在上面的螢幕截圖中,您可以看到chassis 1已發

## 確認機箱

最後,如果您增加或減少將機箱連線到交換矩陣互聯的鏈路數,您可以確認機箱。確認機箱可確保 交換矩陣互聯瞭解鏈路數量的變化,並確保流量沿所有可用鏈路流動。啟用或禁用交換矩陣互聯上 的埠後,請等待至少1分鐘,然後再重新確認機箱。如果您過快地重新確認機箱,則來自機箱的伺服 器流量的固定可能不會更新為您已啟用或禁用的埠更改。

步驟1 在Navigation窗格中,按一下Equipment頁籤。

- 步驟2 在Equipment頁籤上,展開Equipment > Chassis。
- 步驟3 選擇要確認的機箱。

步驟4 在Work窗格中,按一下General頁籤。

步驟5 在「Actions」區域中,按一下Acknowledge Chassis。

**步驟6** 如果Cisco UCS Manager顯示確認對話方塊,請按一下Yes。Cisco UCS Manager斷開機箱連線,然 建機箱與系統中的交換矩陣互聯或交換矩陣互聯之間的連線

### 相關資訊

 {http://www.cisco.com/c/en/us/td/docs/unified\_computing/ucs/sw/gui/config/guide/2-0/b\_UCSM\_GUI\_Configuration\_Guide\_2\_0/b\_UCSM\_GUI\_Configuration\_Guide\_2\_0\_chapter\_ 0100010.html

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