# 使用Cisco UCS Manager发现机箱的步骤

# 目录

<u>简介</u> <u>配置设备策略</u> <u>配置端口</u> <u>确认机箱</u> 相关信息

# 简介

本文档介绍使用思科统一计算系统(UCS)管理器发现机箱的过程。完成物理连接和集群配置后,下 一步是配置策略和端口以执行机箱发现。 在本文中,您可以了解如何配置设备策略和发现机箱。发 现机箱后,您可以在UCS Manager的"设备"选项卡中看到机箱组件,如服务器模块、IO适配器。

## 配置设备策略

1. 假设每个I/O模块(IOM)与交换矩阵互联(FI)之间只有一个连接。

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#### 2. 登录到 UCS Manager。

3. 导航至Equipment > Policies > Global policies。

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	>> ji Equipment
, ,, ,, ,,	👔 Main Topology View 💷 Fabric Interconnects 🥪 Servers 🖌 Thermal 📾 Decommissioned 🌰 Firmware Management 🐻 Policies 🛆 Faults
Equipment Servers LAN	COOM POINTS Autoconfig Policies Server Inheritance Policies Blade Server Discovery Policies SEL Policy Power Croups
Filter: All	Chassis/FDX Discovery Policy
de ce ▼ 00 Tourners > %0 Chassis ▼ 00 Rack-Mounts	Action: 1 Link
REX .	
Servers     Fabric Interconnects	Rack Server Discovery Policy
	Action: Immediate User Acknowledged Scrub Policy: <not set=""></not>
	Rack Management Connection Policy
	Action: O Auto Acknowledged O User Acknowledged
	Power Policy
	Redundancy: Non Redundant N+1 Grid

在机箱/FEX发现策略选项卡中,您应在此处选择单个IOM和交换矩阵互联对之间连接的链路数。例 如,在前面显示的图中,每个IOM都有一个与其关联的交换矩阵互联的连接。因此,将创**建1个**链接 策略。此策略实质上只是指定需要存在多少个连接才能发现机箱。

在"**电源策**略"选项卡中,选择以下选项之一:

在"电源策略"区域,单击"冗余"字段中的以下单选按钮之一:

- 非冗余 所有已安装电源都已打开,且负载均衡。只有较小的配置(需要的功率低于 2500W)才能通过单个电源供电。
- n+1 为满足非冗余而打开的电源总数,加上一个用于冗余的附加电源,并平均分担机箱的电源负载。如果安装了任何其他电源,Cisco UCS Manager会将其设置为"关闭"状态。
- 电网 两个电源已打开,或机箱需要大于N+1冗余。如果一个电源发生故障(这会导致一个或 两个电源断电),另一个电源电路上未损坏的电源继续为机箱供电。

### 配置端口

步骤1.从"设备"选项卡,导航**到"交换矩阵互联">"交换矩阵互联A/B**"。然后根据需要展开任何固定或 扩展模块。将适当的未配置端口配置为**服务器**。

**注意:**您必须从IOM到FI相应地布线。例如,如果已连接到端口2(从FI-A到IOM - A)和端口 2(从FI-B到IOM - B),则只需配置这些端口。

步骤2.右键单击该端口,然后单击**将与IOM(机**箱)连接的每个端口配置为服务器端口。

Fault Summary	Q 🔘 🛙 New *	Options (	👂 0 🛕 Pending Activities 🧕 🛙	xit .			1
S V 🛆 (	>> 👬 Equipment • 🖬	Fabric Interc	onnects • 🚥 Fabric Interconnect 8 (	subordinate) • 🚥 Fix	red Module • 📲 Ethe	met Ports	-C Ethernet Po
9 52 2 .	4 Fitter a Export G	Print If Role	All 🛃 Unconfigured 📃	Network Server	FCoE Uplink	Unified Uplink C Appliance 5	itorage 📃 FCoE Storage 📃 Un
former LAN	Slot	Port ID	MAC	If Role	if Type	Overall Status	Administrative State
tegephane servers DAN	1	4	LAN Delivery Managers	onfigured	Physical	V Slp Not Present	Disabled
Titure All D	1	5	DAN Oplinks Manager	onfigured	Physical	V Slp Not Present	Disabled
Finer: All	1	6	Show Navigator	onfigured	Physical	V Slp Not Present	Disabled
In the later of th	1	7	2	onfigured	Physical	V Slp Not Present	Disabled
	1	8	Enable	onfigured	Physical	V Slp Not Present	Disabled
* BB Equipment	1	9	Disable	onfigured	Physical	V Slp Not Present	Disabled
► NU Chassis	1	10	Configure as Server Port	onfigured	Physical	Admin Down	Disabled
v I Rack-Mounts	1	11	Configure as Uplink Port	pnfigured	Physical	V Slp Not Present	Disabled
M rEx	1	12	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
* E Fabric Interconnects	1	14	Configure as Appliance Port	onfigured	Physical	V Slp Not Present	Disabled
Fabric Interconnect A (primary)	1	15	Unconfigure	onfigured	Physical	Admin Down	Disabled
Fixed Module	1	16	Unconfigure ECoF Unlink Bort	onfigured	Physical	V Slp Not Present	Disabled
Ethernet Ports	1	19	Unconfigure Holink Port	onfigured	Physical	V Slp Not Present	Disabled
IC Ports	1	20	Unconfigure Opinik Port	onfigured	Physical	V Slp Not Present	Disabled
Expansion Module 2	1	21	Unconfigure PCOE storage Port	onfigured	Physical	V Slp Not Present	Disabled
E Fars	1	22	Unconfigure Appliance Port	onfigured	Physical	V Slp Not Present	Disabled
h 🗰 PSIh	1	23	Unconfigure both	onfigured	Physical	V Slp Not Present	Disabled
Y En Exheir Istarrossant 8 (schoolig	1	24	Conv	c onfigured	Physical	V Slp Not Present	Disabled
T B Dand Madula	1	25	ConvXMI	onfigured	Physical	V Slp Not Present	Disabled
The should be	1	26	copy since	una onfigured	Physical	V Slp Not Present	Disabled
- Contractions	1	27	00.2A/6A/74:82:A2	Unconfigured	Physical	V Slp Not Present	Disabled
Port 1	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	V 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	4 Admin Down	Disabled

### 步骤3.在交换矩阵互联A上配置服务器端口后,您可以看到如下链路状态。(整体状态为UP)。

	Tault Sur	mary		00	O New *	<b>Q</b> Options	0 0 4	Pending Activities	🙆 Exit						1
•	V			>> 👬	Equipment •	E Fabric Int	erconnects •	Fabric Interconne	ct A (primary)	Fixed 1	Module • 📲 Ethe	ernet Ports		-C Eth	ernet Po
9	52	2	23	d raw	+ Export	in Print If R	ole: 🖣 🖸 All	Unconfigured	Network	Server	Z FCoE Uplink	C Unified Uplink	Appliance Storage	C FCoE Storage	🖸 Uni
-				Slot		Port ID		MAC	If Role		If Type	Overall	Status Adm	inistrative State	
Equipme	Ser Ser	rers	LAN	1		1		00-2A-6A-6F-6D-C8	Server		Physical	Link	Down 11	nabled	
	4.0		10	1		R		00 2A 6A 6F 6D C9	Server		Physical	1 Up	19.0	nabled	
Filters	A1			1		- <del>,</del>		CO ZA EA EF ED CA	Unconfig	wed	Physical	V So 1	Not Present 4 D	Naabled	
the let				1		4		00:2A/6A/6F/6D/CB	Unconfig	sured	Physical	V Slp I	Not Present	Nsabled	
				1		5		00.2A/6A/6F/6D.CC	Unconfig	aured	Physical	V Sfp I	Not Present 4 C	Xsabled	
* BB Equip	ment			1		6		00:2A 6A 6F 6D CC	Unconfig	sured	Physical	V Stp 1	Not Present 4 C	Visabled	
> N/O	hassis.			1		7		00:2A/6A/6F/6D/CE	Unconfig	sured	Physical	V Stor	Not Present	Nsabled	
Y @ R.	ick-Mounts			1		8		00:2A/6A/6F/6D/CF	Unconfig	pured	Physical	V Sfp I	Not Present 6	Visabled	
1 9	FEX			1		9		00:2A/6A/6F/6D/D0	Fcoe Upi	link	Physical	V Stori	Not Present 1 E	nabled	
	Servers			1		10		00:2A/6A/6F/6D/D3	Fcoe Upl	link	Physical	t Up	11	nabled	
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	Fixed Mc	odule		1		13		00:2A/6A/6F/6D/D4	Unconfig	sured	Physical	💙 Sfp I	Not Present 🕴 C	Nsabled	
	<ul> <li>-Cther</li> </ul>	net Ports	_	1		14		00-2A-6A-6F-6D-D5	Unconfig	pured	Physical	V Slp I	Not Present 6	Xsabled	
			_	1		15		00:2A/6A/6F/6D/D6	Unconfig	pured	Physical	Adm	sin Down 🕴 0	Nsabled	
	Expansio	on Module 2		1		16		00-2A-6A-6F-6D-D7	Unconfig	pured	Physical	V Stp 1	Not Present 4 C	Xsabled	
	Fars.		-	1		17		00:2A/6A/6F/6D/D8	Network		Physical	🕈 Up	1.0	nabled	
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	h all fither	net Borts		1		21		00:2A/6A/6F/6D/DC	Unconfig	pured	Physical	👽 Sfp I	Not Present 🕴 D	Xsabled	
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· .	The Party of the P	na Mandula 1	a	1		23		00:2A/6A/6F/6D/DE	Unconfig	sured	Physical	V Stp I	Not Present 🕴 C	Nsabled	
1 (	CAPANSA CAPANSA	NO MODURE A	9	1		24		00:2A 6A 6F.6D DF	Unconfig	pured	Physical	💙 Sfp I	Not Present	Visabled	
	ans rans			1		25		00.2A/6A/6F/6D/E0	Unconfig	ured	Physical	V Stal	Not Present 4 0	Vsabled	

### 步骤4.同样,您需要在交换矩阵互联 — B上配置端口。

Task Services	🔾 🕘 🛛 New	• Q Options 0	A Pending Activities	Exit.				- 22
S V 🛆 🗳	>> 👬 Equipment	t · 🖬 Fabric Interconnects ·	E Fabric Interconnect	8 (subordinate) • 🛲 Fi	ixed Module • - Et	vernet Ports	- <b>G</b> Eth	ernet Ports
9 52 2 23	A filter + Export	Gi Print   If Role: 4 2	All 🔽 Unconfigured	Network Z Server	FCoE Uplink	Unified Uplink	Storage Z FCoE Storage	C Uni +
Contraction for any 1988	Slot	Port ID	MAC	If Role	If Type	Overall Status	Administrative State	
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200 m 11 13	1	þ	00/2A/6A/74/82:89	Server	Physical	9.00	Enabled	
Filler: All			00.2A.0A.74.82.8A	NEURICE &	Physical	V Sty No. Freners.	Disabled	
a al	1	4	00:2A/6A/74/82:88	Unconfigured	Physical	V S/p Not Present	Disabled	
	1	5	00:2A/6A/74:82:8C	Unconfigured	Physical	V Sfp Not Present	Disabled	
* BB Equipment	1	6	00.2A/6A/74.82.8D	Unconfigured	Physical	V S/p Not Present	Disabled	
NJ Chassis	1	7	00:2A:6A:74:82:8E	Unconfigured	Physical	V Sfp Not Present	Disabled	
# I Rack-Mounts	1	8	00.2A/6A/74.82:8F	Unconfigured	Physical	V Slp Not Present	Disabled	
I FEX	1	9	00:2A/6A/74:82:90	Unconfigured	Physical	V Stp Not Present	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	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	Disabled	
Chernet Ports	1	14	00:2A/6A/74/82:95	Unconfigured	Physical	V Slp Not Present	Disabled	
-C FC Ports	1	15	00:2A/6A/74:82:96	Unconfigured	Physical	Admin Down	Disabled	
Expansion Module 2	1	16	00.2A/6A/74/82:97	Unconfigured	Physical	V S/p Not Present	Disabled	
E [2] [ and	1	17	00:2A/6A/74:82:98	Network	Physical	Link Down	t Enabled	
5 B 19 5	1	18	00.2A/6A/74/82:99	Network	Physical	Admin Down	Disabled	
T The Exheric Interconnect & Conference	1	19	00:2A/6A/74:82:9A	Unconfigured	Physical	V Slp Not Present	Disabled	
T The first Madels	1	20	00:2A/6A/74:82:98	Unconfigured	Physical	V Slp Not Present	Disabled	
Proved Modele	1	21	00:2A/6A/74:82:9C	Unconfigured	Physical	V Slp Not Present	Disabled	
	1	22	00:2A/6A/74:82:90	Unconfigured	Physical	V Slp Not Present	Disabled	
THE PORTS	1	23	00.2A/6A/74/82/9E	Unconfigured	Physical	V S/p Not Present	Disabled	
Expansion Module 2	1	24	00.2A/6A/74/82.9F	Unconfigured	Physical	V Slp Not Present	Disabled	
F Tans	1	25	00:2A/6A/74:82:A0	Unconfigured	Physical	V S/p Not Present	Disabled	
PSU6	1	26	00:2A/6A/74/82/A1	Unconfigured	Physical	V Slp Not Present	Disabled	
		27	00.1141.71.91.11	Descelland	Observed.	TT Che New Descret	1 Disabled	

配置端口后,将发现机箱并将其列在设备选项卡下。 在上述屏幕截图中,您可以看**到机箱1**已发现

确认机箱

o

最后,如果增加或减少将机箱连接到交换矩阵互联的链路数量,则可以确认机箱。确认机箱可确保 交换矩阵互联了解链路数量的变化以及流量沿所有可用链路流动。启用或禁用交换矩阵互联上的端 口后,请至少等待1分钟,然后重新确认机箱。如果太快重新确认机箱,则服务器流量的固定可能不 会随着对启用或禁用的端口的更改而更新。

第1 在导航窗格,请点击Equipment选项卡。

步骤 在"Equipment(设备)"选项卡上,展开"Equipment(设备)" > Chassis(机箱)。

步骤 选择要确认的机箱。

3

4

5

步

2

步骤 在工作窗格中,单击 General 选项卡。

**步骤** 在"操作"区域中,单击"确认机箱"。

步骤 如果Cisco UCS Manager显示确认对话框,请单击是。Cisco UCS Manager断开机箱连接,然后重建

6 与系统中交换矩阵互联或交换矩阵互联之间的连接

# 相关信息

- {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
- <u>技术支持和文档 Cisco Systems</u>