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### Introduction

This document describes the procedure to discover the Chassis using the Cisco Unified Computing System (UCS) Manager. Once the physical connection and the cluster configuration is completed, the next step is to configure the polices and ports to perform the chassis discovery. In this article, you can see how to configure the equipment policies and discovery of the chassis. Once the chassis is discovered, you can see the chassis components like server modules, IO adapters in the UCS manager's Equipments tab.

# **Configuring the Equipment Policy**

1. Assume that you have only one connections from each I/O Module (IOM) to Fabric Interconnect (FI).



- 2. Login to UCS manager.
- 3. Navigate to Equipment > Policies > Global policies.



In Chassis/FEX discover policy tab, Here you should select the number of links that are connected between an individual IOM and Fabric Interconnect pair. For instance, in the drawing displayed earlier each IOM had one connections to its associated Fabric Interconnect. Thus, a **1 link** policy is created. This policy is essentially just specifying how many connections need to be present for a chassis to be discovered.

In Power Policy tab select one of the below option:

In the Power Policy area, click one of the following radio buttons in the Redundancy field:

- Non Redundant—All installed power supplies are turned on and the load is evenly balanced. Only smaller configurations (requiring less than 2500W) can be powered by a single power supply.
- n+1—The total number of power supplies to satisfy non-redundancy, plus one additional power supply for redundancy, are turned on and equally share the power load for the chassis. If any additional power supplies are installed, Cisco UCS Manager sets them to a "turned-off" state.
- Grid—Two power sources are turned on, or the chassis requires greater than N+1 redundancy. If one source fails (which causes a loss of power to one or two power supplies), the surviving power supplies on the other power circuit continue to provide power to the chassis.

# **Configuring Ports**

Step 1. From Equipment tab, navigate to **Fabric Interconnects > Fabric Interconnect A/B**. Then expand any Fixed or Expansion modules as necessary. Configure the appropriate unconfigured ports as **Server**.

**Note**: You have to do the cabling accordingly from IOM to FI. For an example, if you have connected to the port number 2 from FI-A to IOM – A and port 2 from FI-B to IOM – B, you need to configure only those ports.

Step 2. Right click the port and click in **configure as server port** for each port that you have connected with IOM (Chassis).

Fault Summary	Q 🕕 🛙 Nev •	Options 6	0 🛕 Pending Activities 🧕	Exit			1
<b>◎ ▼ △</b> 4	>> 👬 Equipment • I	Fabric Interco	onnects • 🚥 Fabric Interconnect 8	(subordinate) • 🖿 Fix	ed Module • 📲 Ether	net Ports	-C Ethernet Po
9 52 2 .	4 Filter - Export 3	Print If Role:	All 🖸 Unconfigured 🗌	Network Server	FCoE Uplink	Unified Uplink Appliance	Storage 📄 FCoE Storage 📃 Uni
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	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
* I Rack-Mounts	1	11	Configure as Uplink Port	onfigured	Physical	V Slp Not Present	Disabled
TEX 💷	1	12	Configure as FCoE Uplink Port	onfigured	Physical	V Slp Not Present	Disabled
Servers	1	13	Configure as FCoF Storage Por	t 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
T Fixed Module	1	16	Unconfigure ECoF Holink Port	onfigured	Physical	V Slp Not Present	Disabled
Ethernet Ports	1	19	Unconfigure Foot opinik Fort	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 FCOE Storage Por	onfigured	Physical	V Slp Not Present	Disabled
h 🕅 Farri	1	22	Unconfigure Appliance Port	onfigured	Physical	V Slp Not Present	Disabled
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They Moove	1	26	Copy And	was onfigured	Physical	V Slp Not Present	Disabled
Ethernet Ports	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	10	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 Sfp Not Present	Disabled
- Port S	1	32	00/2A/6A 74:82 A7	Unconfigured	Physical	Admin Down	Disabled
- Port 6							

Step 3. After configuring the server ports on Fabric interconnect A , you can see the link status like below. (Overall status UP).

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• • •	′ 🛆 🖌	>> 👬 Equ	ipment • 🚥 Fabric Interconnec	tts • 📾 Fabric Interconnect	A (primary) • 🗰 Fixed	l Module • 📲 Ethe	met Ports	-C Ethernet Pu
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Toursent	Servers LAN	Slot	Port ID	MAC	If Role	If Type	Overall Status	Administrative State
	20103 011	1		00 2A 6A 6F 6D C8	Server	Physical	Link Down	Enabled
filter All		1	2	00.2A 6A 6F 6D C9	Server	Physical	🐮 Up	trabled 2
FILLE. PRO		1	1	CO 2A EA EF ED CA	Unconfigured	Physical	V Slp Not Present	Disabled
at at 1		1	4	00:2A/6A/6F/6D/CB	Unconfigured	Physical	V Slp Not Present	Disabled
		1	5	00:2A/6A/6F/6D/CC	Unconfigured	Physical	V Slp Not Present	Disabled
* BB Equipment		1	6	00.2A/6A/6F/6D/CD	Unconfigured	Physical	V Slp Not Present	Disabled
F BU Chassis		1	7	00:2A/6A/6F/6D/CE	Unconfigured	Physical	V Slp Not Present	Disabled
Y CRAck-Mo	unts	1	8	00:2A 6A 6F 6D CF	Unconfigured	Physical	V Slp Not Present	Disabled
I FEX		1	9	00:2A/6A/6F/6D/D0	Fcoe Uplink	Physical	V Stp Not Present	Enabled
Server	n	1	10	00:2A/6A/6F/6D/D1	Fcoe Uplink	Physical	t Up	Enabled
a set fabric las	and a second	1	11	00:2A/6A/6F/6D/D2	Fcoe Uplink	Physical	V Slp Not Present	Enabled
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🔻 🖬 Fo	xed Module	1	13	00:2A:6A:6F:6D:D4	Unconfigured	Physical	V Slp Not Present	Disabled
	Ethernet Ports	1	14	00:2A 6A 6F 6D D5	Unconfigured	Physical	V Slp Not Present	Disabled
		1	15	00.2A/6A/6F/6D/D6	Unconfigured	Physical	Admin Down	Disabled
> <b>31</b> D	gansion Module 2	1	16	00.2A/6A/6F/6D/D7	Unconfigured	Physical	V Slp Not Present	Disabled
> E 1	f6	1	17	00:2A/6A/6F/6D/D8	Network	Physical	t Up	Enabled
> 10 IS	116	1	18	00.2A.6A.6F.6D.D9	Network	Physical	t Up	Enabled
T III Fabrie	Interconnect & Dubord	1	19	00:2A/6A/6F/6D/DA	Unconfigured	Physical	Admin Down	Disabled
Y	and Module	1	20	00:2A/6A/6F/6D/D8	Unconfigured	Physical	V Slp Not Present	Disabled
	Ethernet Ports	1	21	00.2A/6A/6F/6D/DC	Unconfigured	Physical	V Slp Not Present	Disabled
1 12	Concrete Pures	1	22	00.2A 6A 6F 6D DD	Unconfigured	Physical	V Sfp Not Present	Disabled
	PL PORS	1	23	00:2A/6A/6F/6D/DE	Unconfigured	Physical	V Slp Not Present	Disabled
	quansion module 2	1	24	00:2A 6A 6F 6D DF	Unconfigured	Physical	V Slp Not Present	Disabled
> B1	n5	1	25	00/2A/6A/6F/6D/E0	Unconfigured	Physical	V Sfp Not Present	Disabled

Step 4. Similarly you need to configure the ports on fabric interconnect -B.

	1.							
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	🕰 Filter 🛥 Export	🔅 Print 🛛 If Role: 🕛 🛃	All 🖸 Unconfigured	🖸 Network 🛛 Server	FCoE Uplink	🖸 Unified Uplink 🖸 Appliance 5	itorage 🖸 FCoE Storage	🖸 Uni M
Concernent Services LAN	Slot	Port ID	MAC	If Role	If Type	Overall Status	Administrative State	17
addeption all all all all all all all all all al	1	1	00 24 64 74 82 88	Securi	Physical	1.18	# Enabled	
Elhar All	1	2	00/2A/6A/74/82/89	Server	Physical	🔮 Up	🕈 Enabled	
riner.	<b>N</b> .	3	00.2A 6A 74 82.8A	Network .	Physical	V My No. Present.	Disabled	
a la la	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 Slp 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 Slp Not Present	Disabled	
# 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 S/p Not Present	Disabled	
Servers	1	10	00.2A/6A/74:82:91	Unconfigured	Physical	Admin Down	Disabled	
* E Fabric Interconnects	3	11	00.2A/6A/74/82:92	Unconfigured	Physical	V Stp Not Present	Disabled	
Fabric Interconnect A (primary)	1	12	00:2A/6A/74:82:93	Unconfigured	Physical	V Slp Not Present	Disabled	
T m Fixed Module	1	13	00.2A/6A/74/82:94	Unconfigured	Physical	V Slp Not Present	Disabled	
Chernet Ports	1	14	00:2A/6A/74/82:95	Unconfigured	Physical	V Slp Not Present	Disabled	
-C 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 Sfp Not Present	Disabled	
E Fans	1	17	00:2A/6A/74:82:98	Network	Physical	Link Down	t Enabled	
5 10 PON	1	18	00.2A/6A/74/82:99	Network	Physical	Admin Down	Disabled	
T III Exhric Interconnert & (subscript	1	19	00:2A/6A/74:82:9A	Unconfigured	Physical	👽 Sfp-Not Present	Disabled	
T East Module	1	20	00.2A/6A/74/82:98	Unconfigured	Physical	V Slp Not Present	Disabled	
	1	21	00:2A/6A/74:82:9C	Unconfigured	Physical	V Sfp Not Present	Disabled	
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<ul> <li>Expansion Module 2</li> </ul>	1	24	00:2A/6A/74:82:9F	Unconfigured	Physical	V Slp Not Present	Disabled	
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Once you have configured the ports, chassis is discovered and it is to be listed under the equipment tab. In the above screenshot, you can see that **chassis 1** is discovered.

### Acknowledging a Chassis

Lastly, you can acknowledge the chassis, if you increase or decrease the number of links that connect the chassis to the fabric interconnect. Acknowledging the chassis ensures that Fabric interconnect is aware of the change in the number of links and that traffics flows along all available links. After you enable or disable a port on a fabric interconnect, wait for at least 1 minute before you reacknowledge the chassis. If you re-acknowledge the chassis too soon, the pinning of server traffic from the chassis may not be updated with the changes to the port that you enabled or disabled.

Step 1	In the Navigation pane, click the Equipment tab.
Step 2	On the Equipment tab, expand Equipment > Chassis.
Step 3	Choose the chassis that you want to acknowledge.
Step 4	In the Work pane, click the General tab.
Step 5	In the Actions area, click Acknowledge Chassis.
Step 6	If Cisco UCS Manager displays a confirmation dialog box, click Yes.Cisco UCS Manager disconn
	the chassis and then rebuilds the connections between the chassis and the fabric interconnect or
	fabric interconnects in the system

#### **Related Information**

- {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\_ch apter\_0100010.html
- <u>Technical Support & Documentation Cisco Systems</u>