Configure Port Type on Intersight Managed Mode

Contents

Introduction Prerequisites Requirements Components Used Background Information Configure

Introduction

This document describes how to configure the Port Types of the Fabric Interconnects (FI) on Intersight Managed Mode (IMM).

Prerequisites

Requirements

Cisco recommends knowledge of these topics:

- General Intersight Managed Mode (IMM) knowledge
- Cisco Intersight Basics.
- Port Types and Configuration.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco UCS 6454 Fabric Interconnect
- Cisco Intersight software-as-a-service (SaaS)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

Intersight Managed Mode (IMM) in order to configure the port configuration or 'port role' for example Server or Network Uplink you must create policies and assign them to a domain profile.

Configure

Step 1. Create a Port Policy.

Go to Configure --> Policies --> Create Policy.

cisco Intersight	CON	FIGURE > Policies			🗘 🖪 343 🔺 341 🕑 🜾	34 🔍 😳 💿	۵
MONITOR						Create	Policy
Servers	1	All Policies (a) +					
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Networking		CS Domain 34 HyperFlex Cluster 1	6 NotUsed 60				
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Integrated Systems			UCS Server	Local User	2 👸	13 hours ago	
Ourhestration			UCS Server	LAN Connectivity		Aug 26, 2022 11:00 AM	
Profiles			UCS Server, UCS Domain	Ethernet Network Control	ĝ •	Aug 26, 2022 10:51 AM	
Templates			UCS Server	Ethernet Adapter	۵ ه	Aug 26, 2022 10:48 AM	
Policies			UCS Server	Storage		Aug 26, 2022 10:37 AM	
Pools			UCS Server	Virtual KVM		Aug 26, 2022 10:35 AM	
			UCS Server, UCS Chassis	IMC Access	4 🔞	Aug 26, 2022 10:24 AM	
	utersight Intersight MONITOR - MONITOR - DPERATE - Servers - Chassis - Fabric Interconnects - PhyperPlex Clusters - CONFIGURE - Configure - Poloites - Poloites - Poloites - Poloites -	titotici Intersight CONI MONITOR	ububi intersight CONFIGURE > Policies MONITOR * All Policies © + Servers * All Policies © + Servers * All Policies © + Chassis * All Policies © + Platform Type * Add Filter Platform Type UCS Chassis 11 UCS Server 128 UCS Chassis 11 Networking * Name Configure * Name * Configure * Configure	ubids intersight CONFIGURE > Policies MONITOR	ubické intersight CONTIGURE > Policies MONITOR ** Al Policies • + Servers • Add Filter Servers • Add Filter Pistion Type • Add Filter Pistion Type • UCS Chassis 11 UCS Chassis 11 • Ucd 84 UCS Chassis 11 • Ucd 94 • Name • Pildom Type • Name • Pildom Type • Name • Pildom Type • Name • UCS Server • Instruic rgs/vanz UCS Server •	tick Intersight CONFIGURE > Pakees Delases Del	term term

Create Policy view

Select UCS Domain and Port.

Click in Start.

=	cisco Intersight	CONFIGURE > Policies > Create			🚨 🖬 343 🔺 341	ß	q \$ 34	٩	0	0	ه
€				Select Policy Type							
×	Servers Chassis Fabric Interconnects Fabric Interconnects Integrated Systems CONFIGURE Orchestration Profiles Polities Configure C		Filters PLATFORM TYPE AI UCS Server UCS Consain UCS Chassis HyperFlex Cluster Kubernetes Cluster	Search Ethemet Network Control Ethemet Network Control Ethemet Network Group Flow Control Link Aggregation Link Aggregation Multicast Nethork Connectivity NTP	Port SNMP Switch Control System QoS VLAN VSAN						
										•	Start

Select Policy Type view

Set the values for the Policy. Organization, Name, and Switch Model.

In this example the values that were configured are:

-Organization default

-Name MyPortPolicie

-Switch Model UCS-FI-6454

≡	cisco Intersight	CONFIGURE > Policies > Port > Create		🗘 🖬 343 🔺 341	9 7 34		۹.
<u>ello</u>		œ Progress		Step 1			
ø		General	{Õg	General Add a name, description and tao for the policy.			
			~~~~~				
		3 Breakout Options	default				
		Port Roles	Name *				
			MyPortPolicie				
	Integrated Systems		Switch Model *				
×			UCS-FI-6454				
			Set Tags				
	Templates						
	Policies		Description	<= 1024			
¢	ADMIN 🗸						
_							
							Next >

Policy Details view

Now, you have the option to configure the "**Unified Ports**" as **FC** or **Ethernet**. The ports on the left (blue) can be configured as FC and on the right (purple) can be configured as Ethernet.

=	cisco Intersight	CONFIGURE > Policies > Port	> Create		Q 🖪 343 🖌	341 🛛	<b>F</b> \$ 34	٩	۲	0	ه
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Ŷ		General		ξÕ <b>e</b>	Unified Port						
				~ <b>~</b> ??	traffic.						
		Unitied Port									
		3 Breakout Options		Move slider to configure unified ports and select port to set breakout.							
		Port Roles		Fibre Channel Ports							
				B Fiber Channel Ports (Port 1-8)							
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				CBCO UCS-P1-4454				in animin			
							• Ethernet	Port Mode			
				FC Ports 1-8	Ethernet Por	ts 9-54					
	Policies										
Ð											
											Next >

Unified Ports view

**Note**: If you change the Unified ports on a fixed module, for example on the 6454 can require a reboot when the profile is deployed in later steps.

You have the option to configure the "**Breakout Cables**". In the FI 6454 the **Breakout ports** go from 49 to 54.

	cisco Intersight	CONFIGURE > Policies > Port > Create			🗘 🖬 343 🔺 341 🛛 🕑	<b>q</b> ⊄1 34 Q	<u>e</u>
				Configure breakout	ports on FC or Ethernet.		
		Deneral					
			Ethernet Fibre Channel				
		2 Unified Port					
		Breakout Options					
		4 Port Roles					
	HyperFlex Clusters			च च च च च च च च च			
	Integrated Systems		CRODUCE-IT-EEE				
×	CONFIGURE ^					hernet   📼 Breakout Capabl	
	Profiles						
	Templates		Port 49 Et	thernet			
	Policies		Port 50 Et	thernet			
-	Pools		Port 51 Et	thernet			
(g)			Port 52 Et	thernet			
			Port 53 Et	themet			
			Port 54 Et	thernet			
							 Next >

Breakout Cables view

In **Port Roles** pane the port configuration is set.

To begin, select the port to configure and click on **Configure**.

=	cisco Intersight		Port > Create					343 🔺 341	<del>9</del> \$ 34		3	ه
<u>00</u> 0		Progress		Por	t Roles Port Channels Pin Grou	ps						
ø				•	Selected Ports Port 9	Clear Selection						
		General		-								
		2 Unified Port							 			
		3 Breakout Options						onon				
		o Port Roles		CISCO 9	CS-m 6454							
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	Integrated Systems											
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						Ethernet	Unconfigured					
											s	ave

Port Roles view

In Configure, set the type, speed, and Network Policies for the Port.

Click **Save** to save the changes.

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∰ @			Configure Port		
			Configuration Selected Port Port 9 Role Ethernet Uplink		
*	CONFIGURE		Admin Speed FEC Auto		
Ð			Link Control Select Policy		Port Roles
		Cancel			Save

Configure Ports details

### Validate the configuration:

	cisco Intersight	CONFIGURE > Policies > Port > Create				343 <u>A</u> 341 🕑 <b>Ç</b> 3 34	۹ 💿 💿	ه.
			Port Roles Port Channels Pin Group					
		C arrest	Configure Selected Ports -					
		2 Unified Port					TH	
		3 Breakout Options						
	Networking	o Port Roles	CISCO UCS-11-4454					
	HyperFlex Clusters					Ethemet Uplink	Unconfigured	
	Integrated Systems							
×	CONFIGURE ^							
		Port Rol	les Name			Port Channel	Mode	
	Profiles				Unconfigured			
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					Unconfigured			
			port 6		Unconfigured			
					Unconfigured			
					Unconfigured			
			port 9	Ethernet	Ethernet Uplink			
		< Back Cancel						Save

Validate the configuration

Click Save.

Note: You can also apply the configuration to multiple Ports at the same time.

Select the port to configure and click on **Configure**.

	cisco Intersight		ort > Create					343 🔺 341 🕑 👫 34		ه ا
		⊆ Progress		C	Selected Ports Port 1	0, Port 11   Clear Selection				
		General								
		2 Unified Port		-						
		3 Breakout Options						• Ethernet Uplink	Unconfigured	
		Port Roles								
	Integrated Systems									
×							Unconfigured			
							Unconfigured			
							Unconfigured			
	Templates						Unconfigured			
							Unconfigured			
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							Unconfigured			
					port 9	Ethernet	Ethernet Uplink			
							Unconfigured			
						Ethernet	Unconfigured			
		Back	Cancel							Save

Ports configuration

### In **Configure**, set the **type**, **speed**, and **Network Policies** for the Ports.

=	cisco	Intersight	CONFIGURE > Policies > Port > Create		🗘 🖪 343 🔺 341 🛛 🗹	q\$ 34	•	ھ
<u>ulı</u> @	MONITOR OPERATE Servers	^ [2:1] 2:1:12		Configure (2 Ports)				
	Fabric Interc	connects		Configuration Selected Ports Port 10. Port 11				
	HyperFlex C Integrated S	lusters lystems		Role Ethernet Uplink ×				
×	CONFIGURE Orchestratio			Admin Speed FEC Auto <u>v</u> © Auto <u>v</u> ©				
	Profiles Templates			Ethernet Network Group © Select Policy 🕼				
	Policies Pools			Flow Control Select Policy f				
ē				Link Control Select Policy f				
			Cancel				 Save	

Port details

Validate the configuration next.

Click **Save** and save your configuration.

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<u>01</u> 0										
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		2 Unified Port	Port Roles	citico ucs	171-051		غرف يقارفها فكر فكر			
		3 Breakout Options						Ethernet Uplink	Unconfigured	
		ort Roles								
	HyperFlex Clusters									
	Integrated Systems				port 1		Unconfigured			
×					port 2		Unconfigured			
					port 3		Unconfigured			
					port 4		Unconfigured			
	Templates				port 5		Unconfigured			
					port 6		Unconfigured			
					port 7		Unconfigured			
Ð					port 8		Unconfigured			
					port 9	Ethernet	Ethernet Uplink			
					port 10	Ethernet	Ethernet Uplink			
					port 11	Ethernet	Ethernet Uplink			
		C Back	ancel							Save

Validate the configuration

Validate the configuration as shown in these examples.

Your policy now appears under the **Policies** panel:

=	cisco Intersight	c	ONFIGURE > Policies			🗘 🖬 343 🔺 341 🕑	<b>\$</b> 3	34   Q   O   O	ξ.
<u>alo</u>								_	eate Policy
ø			* All Policies © +						
									of 10 🔉 刘
			Platform Type Usage						
			UCS Server 128 UCS Chassis 11	• Used 85					
			UCS Domain 35 HyperFlex Cluster 1						
				Platform Type				Last Update	
4	Integrated Systems			UCS Domain	Port		0 🗟	a few seconds ago	Ð
×	CONFIGURE ^			UCS Server	Local User		2 🐻	13 hours ago	
				UCS Server	LAN Connectivity		1 🐻	Aug 26, 2022 11:00 AM	
				UCS Server, UCS Domain	Ethernet Network Control		0 🐻	Aug 26, 2022 10:51 AM	
	Templates			UCS Server	Ethernet Adapter		0 🐻	Aug 26, 2022 10:48 AM	
				UCS Server	Storage			Aug 26, 2022 10:37 AM	
				UCS Server	Virtual KVM			Aug 26, 2022 10:35 AM	
۲				UCS Server, UCS Chassis	IMC Access		4 🐻	Aug 26, 2022 10:24 AM	
				UCS Server	Virtual Media			Aug 26, 2022 10:13 AM	

Policies panel

Step 2. Now that you have created the policy, you need to apply it to a Domain Profile.

Go to Profiles --> UCS Domains Profiles --> "Domain Profile Name".

In this example, the IMM Domain Profile is used.

=	cisco Intersight	CONFI	IGURE > Profiles				🗘 🔳 343 🔺 341	<b>₽ 9</b> 5 34 0	<b>\</b> 0 0	<u>ه</u>
<u>elo</u>	MONITOR			UCS Domain P	tofiles UCS Server Profiles				Creat	e UCS Domain Profile
ø										
	Servers	* All UCS Domain Profiles 💿 +								
		··· / / 1 9, Add Filter C Expert 4 items found 10 y								
	Chassis						Domain Fabric Interconnect B			
					Not Deployed Changes			30 minutes ago		
	Networking							Aug 25, 2022 2:23 PM		
	HyperFlex Clusters									0
<	Integrated Systems				Not Assigned			Apr 12, 2022 6:40 PM		·( <b>&gt;</b> )
26					Not Assigned			Feb 24, 2022 5:04 PM		
~	CONFIGURE ^									
	Profiles									
	Policies									
	Pools									
Ð	ADMIN V									

Domain Profile pane

Go to Ports Configuration to see the Select Policy option.

Click in **Select Policy** and select your policy:

=	cisco Intersight	CONFIGURE > Edit UCS Domain Profile (IMM-Domain)	Q II 343 ▲ 341 🕑 <b>45</b> 34 Q, ⊙ ⊙	ھ
eb		🚈 Progress		
Ŷ		(1) General	Configure ports by creating or selecting a policy.	
	Servers	2 UCS Domain Assignment	Fabric Interconnect A Not Configured	
		3 VLAN & VSAN Configuration	Ports Configuration Select Policy	
		Ports Configuration		
		5 UCS Domain Configuration		
	Integrated Systems	6 Summary	DEPENDENT OF THE PROPERTY AND THE PROPERTY	
×				
_	Orchestration			
	Profiles			
			Fabric Interconnect B Not Configured	
			Ports Configuration Select Policy	
φ.				
		Close		Next >

Select policy pane

In this example, the Policy created before "MyPortPolicie" is selected.

s	Select Policy ×											
Policies 3												
				3 items found	50 ~	per page 🔣 🤇 1 of	1 > >	63				
Q	Device M	odel UCS-FI-6454	Add F	ilter				×				
	Name			Device Model		Last Update		Ş				
	IMM-645	i4-FI-A		UCS-FI-6454		2 minutes ago		۲				
0	MyPortP	olicie		UCS-FI-6454		6 minutes ago		0				
	IMM-645	i4-FI-B		UCS-FI-6454		Aug 25, 2022 2:17 PM		0				
Sele	cted 1 of 3	Show Selected	Unsele	ect All			1 of 1 [	े > N				
1												
	Select											

Policy selected

Validate the configuration:

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<u>elo</u>			Progress								
ø			) formed	Ports Configuration		Sele	cted Policy	MyPortP	Policie 🤇	ÞIX	
		Ĭ	General								
		2 T	UCS Domain Assignment	THE TATE SATE SATE SATE NATE SATE SATE SATE SATE SATE SATE SATE S	 						
		Ŷ	VLAN & VSAN Configuration	PTARTANTANTANTANTA PTANTANTA	(154 )54154154154154154	me	• ••••				
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		Ġ	UCS Domain Configuration				• Ethernet Uj	ink •	Unconfigure		
	Integrated Systems	. 6	Summary								
×				Port Type	Port Role						
	Profiles										
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Ф				Ports Configuration		Sele	cted Policy	MyPortF	Policie d	ÞIX	
				मिविमिविमिविभित्र मिविमि				•			
				CISCO UCS-IT-4454	 						Mark N
		ΓL	Close								heat >

Validate configuration

## Step 3. Deploy the Domain Profile. In the Summary pane click in Deploy.

=	cisco Intersight	CONFIGURE > Edit UCS Domain Profile (IMM-Domain)			↓ ■ 343 ▲ 341	<b>\$</b> 7 ³ 34 Q, ⊚ (	D	ھ		
<u>ella</u>		존 Progress		Step 6						
φ.	OPERATE ^	() General		Review the U	<b>y</b> CS domain profile details, resolve errors and dealey the profile					
		2 UCS Domain Assignment	Comparation errors and deploy me protee.							
		3 VLAN & VSAN Configuration	General							
		Ports Configuration		IMM-Domain		A Not Deployed Changes				
		UCS Domain Configuration	Organization	default						
	Integrated Systems	5 Summary		Model						
×	CONFIGURE ^			UCSFI-6454	FD02440009X					
	Profiles			UCS-FI-6454	FD024270LDM					
			Ports Configuration VLAN & VSAN Configuration		lamings					
			Fabric Interconnect A							
			Fabric Interconnect B							
Đ										
	le de	Close				200	Dep	loy		

Deploy the changes

The configuration is deployed and the ports are configured to your selections.