Cisco Intersight - VMware ESXi上的Hyperflex安装、配置和部署

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简介

Cisco Intersight通过提供系统管理即服务来简化数据中心运营,从而减少维护内部管理基础设施孤 岛的需要。

Cisco Intersight提供安装、配置和部署Cisco HyperFlex集群(HX Edge和Fl连接)的安装向导。该 向导会构建一个名为HX集群配置文件的集群预配置定义。此定义是HX集群中HX节点的逻辑表示 ,包括 —

• 安全— HyperFlex集群的凭证,例如控制器虚拟机密码、虚拟机监控程序用户名和密码。

- •配置 服务器要求、固件等
- •连接 上游网络、虚拟网络等

本文档提供如何使用intersight部署FI连接的Hyperflex集群的步骤和屏幕快照。

先决条件

要求

HX FI附加集群部署支持的版本

HX220C-M4S HXAF220C-M4S HX240C-M4SX HXAF240C-M4S HX220C-M5SX HXAF220C-M5SX HX240C-M5SX

1

M4M5

HXAF240C-M5SX

Cisco Intersight

Intersight连接

考虑下列与Intersight连接相关的必备条件 —

- 确保相应UCS Manager实例上的设备连接器已正确配置为连接到Cisco Intersight并申请领款。
- 所有设备连接器都必须正确解析**svc.ucs-connect.com**,并允许在端口443上发起出站HTTPS连 接。
- 3.5(2a)之前的Hyperflex安装程序版本支持使用HTTP代理,重新部署集群时除外,该集群不是 出厂时的新设备。
- 所有控制器VM管理接口都必须正确解析download.intersight.com并允许端口443上出站发起的 HTTPS连接。如果直接Internet连接不可用,除非重新部署了群集且不是工厂的新设备,HX安 装程序的当前版本支持使用HTTP代理。
- •必须通过UCS交换矩阵互联管理接口访问预定的ESX服务器、HX控制器网络和vCenter主机。
- 从HXDP版本3.5(2a)开始, Intersight安装程序不要求在HyperFlex服务器上存在出厂安装的控制器VM。但是,如果通过HTTP代理连接到Intersight,此要求仍然适用。所有新的HX服务器都可以通过HTTP代理按原样部署。

其他要求

<u>软件要求</u> 物理要求

<u>网络要求</u>

<u>端口要求</u>

<u>部署信息</u>

使用的组件

- Cisco Intersight
- Cisco UCSM
- Cisco HX服务器
- 思科Hyperflex
- VMWare ESXi
- VMware vCenter



网络图

• Cisco Intersight通过在所有Cisco Intersight版本中包含HyperFlex安装程序,提供部署 HyperFlex群集的简便方法。



配置步骤

步骤1.登录到Cisco Intersight并选择用户帐户,如下所示 —



步骤2.在控制面板上,点击右窗格上的Devices选项卡。



步骤3.在Devices下,点击Claim a New Device

≡	cisco Intersight	Devices						Q 🖬 12	A 11	3 9			Avinash Sh	hukla 🔬
<u>00o</u>	Dashboards	Ner	w features	have recently been add	led! Learn More									×
8													Claim a New I	Device
\$	HyperFlex Clusters													
무	Fabric Interconnects			Search Hyperflex ×	Search				0 items found	10	✓ per page		0 of 0 > 洌	
6	Service Profiles		Name		Status	Туре	Device IP		Device ID			Clair	ned By	
ſ	Policies													
Ŷ	Devices													
													K < 0 of 0	

第4步:登录UCS Manager,浏览到**Admin -> Device Connector。单**击**Settings以配置**访问**模式和** 代理配置

ren.	All 👻	All / Device Connector			
	LAN Cloud				
	SAN Cloud			_	
88	► root 🙆	Intersight Management	Settings	×	
=	Time Zone Management				
-	 Capability Catalog 	Enabled	General	Proxy Configuration Certificate Manager	000000001
	Adapters		Access Mode		SSI201001PJ LE
	Blade Servers	this system and leverage the capabilit			
	CPUs	of Cisco Intersight.	Read-only		E B
_	Chassis	If disabled, no communication will be allowed to Cisco Intersight	 Allow Control 		-
	Coprocessor Cards			-	
2	Crypto Cards				
	Fan Modules				
	GPU Cards				
	IO Modules				
	Local Disks				
	Memory Units				
	Mini Storage				
	PSUs				
	Rack-Mount Servers			Cancel Ok	
	Storage Controllers				
	License Management				
	Device Connector				
₩	Ali	All / Device Connector			
	All v	All / Device Connector			
₩ 8	All Internal Dev LAN Cloud	All / Device Connector The Device Connector is an embedded manage device connector, please visit thing Connector			
	All Internal Dev LAN Cloud SAN Cloud	All / Device Connector	Settings	bilities of Clicco Intersight, a cloud based management platform. To	or detailed information about configuring the
₩ 8 88	All	All / Device Connector The Device Connector is an embedded manager device connector, please visit Hing Center Intersight Management	Settings	bilities of Clicco Intersight, a cloud based management platform. To	or detailed information about configuring the
	All Internet Dev LAN Cloud SAN Cloud Solution Time Zone Management Concline Analgement	All / Device Connector	Settings	bilities of Cluco Intensight, a cloud based management platform. Fi	or detailed information about configuring the
₩ 8 8 1	All	All / Device Connector	need controller that an older the cap Settings General	Edition of Cluco Intersight a cloud based management platform. Fr X Proxy Configuration Certificate Manager	or detailed information about configuring the
	All	All / Device Connector is an embedded manage device connector, please visit Help Center Intersight Management Ensetied When this option is enabled, you can a	Settings General HTTPS Proxy	Dilities of Clicco Intersight, a cloud based management platform. Fr X Proxy Configuration Certificate Manager Enabled	or detailed information about configuring the Strongs SSI201001PJ
	All	All / Device Connector is an embedded manager device connector, please visit help Center Intersight Management Enabled When the option is enabled you can be the system and leverage the capability	Settings General HTTPS Proxy	Defines of Clicco Intersicht, a cloud based management platform. Fr X Proxy Configuration Certificate Manager Enabled	or detailed information about configuring the SSI201001PJ
	All	All / Device Connector is an embedded manager device connector, please visit lively Center Intersight Management Enabled When the option is enabled you can be be system and leverage the capability of Case Intersight.	Settings General HTTPS Proxy Proxy Hostname/IP *	Proxy Configuration Certificate Manager Proxy Proxy Proxy Prot *	or detailed information about configuring the SSI201001PJ
	All	All / Device Connector is an embedded manager device connector, please visit lively Center Intersight Management Enabled When this option is enabled you can be bid class intersight. If disabled, no communication will be allowed to Classo Intersight.	General HTTPS Proxy Proxy Hostname/IP *	Proxy Configuration Certificate Manager Proxy Proxy Port * Proxy Port * N Proxy Port * N Proxy Port * N Proxy Port * N Proxy Port * Prox Port *	or detailed information about configuring the SSI201001PJ
	All	All / Device Connector is an embedded manager device connector, please visit lively Center Intersight Management Enabled When this option is enabled, you can be adjoined to Caco Intersight.	General MTTPS Proxy Proxy Hostname/IP *	Proxy Configuration Certificate Manager Proxy Configuration Certificate Manager Proxy Port * © 8080 ©	or detailed information about configuring the SSI201001PJ
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	All	All / Device Connector is an embedded manage device connector, please visit lively Center Intersight Management Entersit When this option is enabled you can be advice to Caco Intersight. If deabled, no communication will be advice to Caco Intersight.	Settings General HTTPS Proxy Proxy Hostname/IP *	Editive of Cloco Intersight, a cloud based management platform. Fr Y Proxy Configuration Certificate Manager Enabled Proxy Port* 8080 O	or detailed information about configuring the SSI201001PJ C 2
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유 음 유 로 미 음 음 우	All	All / Device Connector is an embedded manage device connector, please visit lives Center Intersight Management Enabled When this option is enabled, you can be device out on the sealer of the spectra of Caso Intersight. If deabled, no communication will be allowed to Caso Intersight. Agent Verses	Settings General HTTPS Proxy Proxy Hostname/IP *	bilines of Clicco Intersegint a cloud based management platform. Fo Y Proxy Configuration Certificate Manager Enabled Proxy Port * 8080	or detailed information about configuring the SSI201001PJ
	All	All / Device Connector is an embedded manage device connector, please visit lives Center Intersight Management Enabled When this option is enabled, you can be the system and loverage the capability of Caco Intersight. If disabled, no communication will be allowed to Caco Intersight. Agent Verses	Settings General HTTPS Proxy Proxy Hostname/IP *	bilines of Clicco Intersegint a cloud based menugement platform. Fo Y Proxy Configuration Certificate Manager Enabled Proxy Port * 8080	SSI201001PJ
	All	All / Device Connector is an embedded manage device connector, please visit lives Center Intersight Management Enabled When this option is enabled, you can be the system and loverage the capability of Caso Intersight. If disabled, no communication will be allowed to Caso Intersight. Agent Verses	Settings General HTTPS Proxy Proxy Hostname/IP *	bilines of Cloco Intersection a cloud based management platform. Fo Proxy Configuration Certificate Manager Enabled Proxy Port * 8080 OK	st detailed information about configuring the SSI201001PJ
	All	All / Device Connector is an embedded manage device connector, please visit tierg Centre Intersight Management Enabled When this option is enabled, you can be the system and lowerage the capability of Caco Intersight If deabled, no communication will be allowed to Caco Intersight Agent Verses	Settings General HTTPS Proxy Proxy Hostname//P *	bilines of Cloce Intersective a cloud based management platform. For Proxy Configuration Certificate Manager Enabled Proxy Port * 8080 Cancel Ok	st detailed information about configuring the SSI201001PJ
	All	All / Device Connector is an embedded manage device connector, please veit fuelo Canada Intersight Management Exating When this option is enabled, you can o device output develops the capability of Gaso Intersight (I deabled, no communication will be allowed to Caso Intersight Agent Verses	Settings General HTTPS Proxy Proxy Hostname/IP *	bilines of Cloce Intersected a cloud based management platform. For Proxy Configuration Certificate Manager Enabled Proxy Port * 8080 •	SSI201001PJ
	All	All / Device Connector is an embedded manner device connector, please vest tiere Centre intersight Management Enabled When this option is enabled, you can be of Caso Intersight. If deabled, no communication will be allowed to Caso Intersight. Agent Verses	Settings General HTTPS Proxy Proxy Hostname/IP *	bilines of Cloce Intersecte a cloud based management platform. For Proxy Configuration Certificate Manager Proxy Port * 8080 • Cancel Ok	SSI201001PJ

第5步:在UCS Manager中,浏览到**Admin -> Device Connector。启用Intersight Management**切换 按钮并获取设备ID和声明代码。



步骤6.在Intersight帐户上,使用**声明代**码和**设备ID**(在步骤5中捕获)声明设备。现在声明了 UCSM域。

≡	cisco Intersight	Device Claim	Q 🖪 35 🔺	2	ß	Q,	۲	0	Avinash Shukla 🗕
<u>00o</u>	Dashboards	New features have recently been added! Learn More							×
00	Servers								
\$	HyperFlex Clusters								
₽	Fabric Interconnects								
6	Service Profiles								
1	Policies								
Ŷ	Devices		Claim A New Device To claim your device, you must have the Device ID and Claim Code. SSI Claim Code * Required Cancel Claim						

步骤7.在Devices下检查以确认新域显示**"已连接**"和**"已申请"**。 此外,请确认您现在可以选择从 Intersight交叉启动UCSM UI和UCSM CLI。

<u>00o</u>	Dashboards								CL	aim a New D	evice
	Servers										
æ	HyperFlex Clusters	Q Search				13 items found	12 v per page	R			
무	Fabric Interconnects	Name	Status	Туре 🗘	Device IP	Device ID		Clain	ned By		
តិ	Service Profiles		Connected	UCS Domain		ss	1PJ		uklu@ciaco.		
1	Policies								K (Launch l	JCSM
Ø	Devices									Launch (
Ť											

第8步:在Service Profiles下,点击Create Hyperflex Cluster Profile

<u>00o</u>	Dashboards	Hyper	NFlex Cluster Profiles Server Profiles 6								Greate Hype	rFlex Cluste	rofile
8													
\$	HyperFlex Clusters			Q Search							perpage 📧 🔇 0 o		
₽	Fabric Interconnects							Nodes	Status		Last Update		
â	Service Profiles												
ſ	Policies												
ø				Selected 1 of 0] < 0 of 0 🔉	

步骤9.使用以下步骤配置服务配置文件:

一般任务

≡	cisco Intersight	Create HyperFlex Cluster Profile		Ç) 🖬 5 🔺 11	ß		۲	0	Avinash Shukla
<u>00</u>	Dashboards		 Prior to creating a HyperFlex Cluster profile, ensure that installation instructions, here 	you go through the pre-i	nstallation checklist	and the de	tailed Hyper			
\$	HyperFlex Clusters	eneral	Name * HX-2 ©							
무	Fabric Interconnects	 Cluster Configuration 								
6	Service Profiles	 Nodes Assignment 	HyperFlex Data Platform Version 3.5(2a) v o							
ſ										
Ŷ	Devices	 Nodes Configuration 	Type © Cisco HyperFlex Edge Cisco HyperFlex with Fabric	interconnect 3						
		Summary	Replication Factor © 4 O 2 • 3							
		Results	Description HX-2 5							
			Add Təg							
		Cancel								Next

集群配置 — 安全

=	cisco Intersight	Create HyperFlex Cluster Profile	Q 🖬 s 🔺 11 🛛 🖓 🖓	② Avinash Shukla
<u>00o</u>	Dashboards			
8	Servers	General	- Security 🛆	
\$	HyperFlex Clusters		Hunanvisor Admin *	
무		Cluster Configuration	root 1 0	
â	Service Profiles	Nodes Assignment		
1	Policies	- House Hearginnent	The hypervisor on this node uses the factory default password	
ø	Devices	 Nodes Configuration 	Hypervisor Password * Hypervisor Password Confirmation *	© 0 2
		Summary Results	Controller VM Admin Password * Controller VM Admin Password Confirmation *	⊕ 0 3
			+ DNS, NTP and Timezone	
			+ vCenter (optional)	
			+ Storage Configuration (optional)	
			+ Auto Support (optional)	

集群配置— DNS、NTP和时区

≡	ະປະປາ cisco Intersight	Create HyperFlex Cluster Profile 🗘 🖬 5 🔺 11 🕑 🔍 💿	O Avia	hash Shukla
<u>allo</u>	Dashboards			
8		General + Security hx-2-loc	al-credential-polic	
æ	HyperFlex Clusters	- DNS, NTP and Timezone		
무	Fabric Interconnects	Cluster Configuration Timezone * DNS Suffix		
6	Service Profiles	Nodes Assignment America/Vancouver 1 v sjs.local	2 0	
1	Policies			
ø		Nodes Configuration 172.11111 172.11111 172.11111 172.11111	<u>4</u> ∘ +	
		SummaryDNS Servers * @		
		Results + vCenter (optional)		
		+ Storage Configuration (optional)		
		+ Auto Support (optional)		
		+ IP & Hostname		

群集配置—vCenter配置

≡	cisco Intersight	Create HyperFlex Cluster Profile	C 🖬 5 🔺 11 🕑 🔍 🦁	Avin	ash Shukla
<u>00o</u>	Dashboards		+ security ⊗ hx:	2-local-credential-policy	
8	Servers	General	+ DNS, NTP and Timezone	hx-2-sys-config-policy	
\$	HyperFlex Clusters		— vCenter (optional) 🛆		
Ŧ	Fabric Interconnects	Cluster Configuration	vCenter Server FQDN or IP * vCenter Username * vCenter Password *		
6	Service Profiles	 Nodes Assignment 	172. 11 ⊙ administrator@vsphere.local 2 ⊙	3 @ 0	
a			vCenter Datacenter Name * VCenter Single-Sign-On Server		
Ŷ	Devices	 Nodes Configuration 	Hx2 <u>4 ◎ <mark>(Optional)</mark> ◎</u>		
		Summary	+ Storage Configuration (optional)		
			+ Auto Support (optional)		
		• Kesurs	+ IP & Hostname		
			+ UCS Manager Configuration		
_			+ Network Configuration		
_			+ External FC Storage (optional)		
		Save & Close	Previous	Next	

注意:— 对于vCenter配置,建议跳过vCenter单点登录服务器。请查看文档第27页下面,

https://www.cisco.com/c/dam/en/us/products/collateral/hyperconverged-infrastructure/hyperflexhx-series/whitepaper-c11-740456.pdf

群集配置 — 存储配置

≡	cisco Intersight	Create HyperFlex Cluster Profile	다 🖻 5 🛕 11 🕑 역, 🧔 🕜 Avinash Shu	da
<u>00o</u>	Dashboards		т авчину 🔾 налаги военнагрово 📷	
8		General	+ DNS, NTP and Timezone 📀 hx-2-sys-config-policy 🏢	n
\$	HyperFlex Clusters		+ vCenter (optional)	
무	Fabric Interconnects	Cluster Configuration	- Storage Configuration (optional)	
õ	Service Profiles	Nodes Assignment	Invite Availability Zones configuration is recommended for HunerFlay Clusters with 8 or more nodes connected to Fl	
۵				
Ŷ	Devices	Nodes Configuration	↓ VDI Optimization ©	
			+ Auto Support (optional)	
		 Summary 	+ IP & Hostname Select Policy 👔	
		Results	+ UCS Manager Configuration	
			+ Network Configuration	
			+ External FC Storage (optional)	
			+ External iSCSI Storage (optional)	l
			+ Proxy Setting (optional)	
		Save & Close	Previous Next Next	

集群配置 — 自动支持

≡	cisco Intersight	Create HyperFlex Cluster Profile	Q 🖬 5 🔺 11 🕞	3 Q	© 0	Avinash Shukla
<u>00a</u>	Dashboards					
8		• General	+ Security ⊘		hx-2-local-credential-p	olicy 🗐
\$	HyperFlex Clusters		+ DNS, NTP and Timezone		hx-2-sys-config-p	olicy 📋
무	Fabric Interconnects	Cluster Configuration	+ vCenter (optional)		hx-2-vcenter-config-p	olicy 🗐
6	Service Profiles		+ Storage Configuration (optional)		hx-2-cluster-storage-p	olicy 🗐
£	Policies	 Nodes Assignment 	- Auto Support (optional)			
Ŷ	Devices	Nodes Configuration	1 • Auto-Support Send Service Ticket Notification to 2 · · · · · · · · · · · · · · · · · · ·			
		 Summary 	[+] IP & Hostname			
		 Results 	+ UCS Manager Configuration			
			+ Network Configuration			
			+ External FC Storage (optional)			
			+ External iSCSI Storage (optional)			
		Save & Close		Previo	N	eat

集群配置 — IP和主机名

=	cisco Intersight	Create HyperFlex Cluster Profile			Q ■ 5 A 11 🕑 Q	0	Avinash Shukla
<u>00o</u>	Dashboards						
88		📍 General	+ Auto Support (optional)			hx-2-auto-suppo	rt-policy 🗐
\$	HyperFlex Clusters		- IP & Hostname				
무	Fabric Interconnects	Cluster Configuration	Hostname Prefix *				
ß	Service Profiles	Nodae Accimment	hx-2-esxi				
6	Policies	Troues Assignment	Management Network Starting IP *		Management Network Ending IP *		
ø		 Nodes Configuration 	172.1	0	172.		<u> </u>
		Summary	Management Network Subnet Mask * 3	<u> </u>	Management Network Gateway * 172. 1995		
		Results	Controller VM Management Network Starting IP 172.	0	Controller VM Management Network Ending II 172.1		<u>o</u>
			Controller VM Management Network Subnet Mask 7 255.255.255.0	0	Controller VM Management Network Gateway 172.1		0
		Save & Close			Previo	ous	Next

集群配置 — UCSM配置

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			Q 🖬 5 🔺 11	R d	Θ	O Avin	ash Shukla
<u>00o</u>	Dashboards						h. 0	nada secto nallo	
8		General					10.2	Relact Dalia	
\$	HyperFlex Clusters		UCS Manager Configuration						
무	Fabric Interconnects	Cluster Configuration	Server Firmware Version * 4.0(1c) 1						
6	Service Profiles	Nodes Assignment							
1			MAC Prefix Starting Address *		MAC Prefix Ending Add 00:25:85:44	ress *		o	
ø	Devices	Nodes Configuration							
		 Summary 	KVM Starting IP * 4		KVM Ending IP *			٥	
		Results	KVM Subnet Mask * 6	0	KVM Gateway * 172. Required			0	
			+ Network Configuration						
			+ External FC Storage (optional)						
		Save & Close					Previous	Next	

集群配置 — 网络

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		ᢕ ◙ 5 ▲ 11 🕑	۹ © (ව Avina	ash Shukla
<u>00o</u>	Dashboards		+ IF & Hostname 🕑		nx-2-node	-contig-policy	
8	Servers	General	+ UCS Manager Configuration		hx-2-ucsn	-config-policy	
\$	HyperFlex Clusters		- Network Configuration				
무	Fabric Interconnects	Cluster Configuration	Management Network VLAN Name *	Management Network VLAN ID			
ã	Service Profiles	Nodes Assignment	HX-MGMT 1	<u> </u>	2	0	Ĺ
۵	Policies		VM Migration VLAN Name *	VM Migration VLAN ID *			
Ŷ	Devices	 Nodes Configuration 	HX-VMOTION 3	<u> </u>		0	
		• Summary	VM Network VLAN Name * 5	VM Network VLAN ID *		+	
		Results	● Jumbo Frames ② 7				
			+ External FC Storage (optional)				
			+ External ISCSI Storage (optional)				6
			+ Proxy Setting (optional)				
		Save & Close			Previous	Next	

群集配置 — 外部存储(可选)

如果已启用,请分别填写FI A和FI B的VSAN名称和VSAN ID。

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			🗘 🗖 5 🔺 11					Avinas	h Shukla
010	Dashboards		+ Storage Configuration (optional)					hx-2-clu	ister-storag	e-policy	
		General	+ Auto Support (optional)					hx-2-	auto-suppor	t-policy	1
\$	HyperFlex Clusters		+ IP & Hostname ⊘					hx-2	-node-confi	g-policy	1
무	Fabric Interconnects	Cluster Configuration	+ UCS Manager Configuration					hx-2-	ucsm-confi	g-policy	1
6	Service Profiles	 Nodes Assignment 	+ Network Configuration 🔗					hx-2-clu	ster-networ	k-policy	1
ſ			- External FC Storage (optional)	- External FC Storage (optional)							
Ŷ	Devices	 Nodes Configuration 	Enable FC Storage 🛇 🔹 Enables or disables evernal FC st	torage co	infiguration.						
		Summary	VSAN A Name *	0	VSAN A ID *					0	
		Results									
			VSAN B Name *	٥	VSAN B ID *					0	
			WWxN Range Starting Address * 20:00:00:25:85: 0		WWxN Range Ending 20:00:00:25:B5:	Address *				<u> </u>	
		Save & Close					Prev	ious		Next	

集群配置 — 代理设置(可选)

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		🗘 🖬 5 🔺 11	₽ 4	© ©	Avinash Shukla
<u>00o</u>	Dashboards						
8	Servers	General	+ Auto Support (optional)			hx-2-auto-suppo	int-policy
\$	HyperFlex Clusters		+ IP & Hostname			hx-2-node-conf	ig-policy 📄
무	Fabric Interconnects	Cluster Configuration	+ UCS Manager Configuration 🖉			hx-2-ucsm-conf	lig-policy 🗐
6	Service Profiles		+ Network Configuration ⊘			hx-2-cluster-netwo	rk-policy 📋
í I	Policies	 Nodes Assignment 	+ External FC Storage (optional)				
	Devices	Nodes Configuration	+ External iSCSI Storage (optional)				
Ť		House comparation	- Proxy Setting (optional)				
		Summary	Hostname * Port *				
			.com © 8080	0	Username		<u> </u>
		Results					
			Password	₿.			
			+ HyperFlex Storage Network 🔗				
		Save & Close			Prev	ious	2

群集配置 — Hyperflex存储网络

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		Q 🖬 5 🔺 11 🕑	Q 😧 ⑦ Avinash Shukla
<u>00o</u>	Dashboards				
8		• General	+ vCenter (optional)		hx-2-vcenter-config-policy
\$	HyperFlex Clusters		+ Storage Configuration (optional)		hx-2-cluster-storage-policy
Ŧ	Fabric Interconnects	Cluster Configuration	+ Auto Support (optional)		hx-2-auto-support-policy
õ	Service Profiles		+ IP & Hostname 🧭		hx-2-node-config-policy
1	Policies	 Nodes Assignment 	+ UCS Manager Configuration		hx-2-ucsm-config-policy 📋
ø	Devices	 Nodes Configuration 	+ Network Configuration		hx-2-cluster-network-policy
			+ External FC Storage (optional)		
		Summary	+ External iSCSI Storage (optional)		
			+ Proxy Setting (optional)		hx-2-proxy-setting-policy
		Results	— HyperFlex Storage Network 🛆		
			Storage Network VLAN Name * Storage Net HX-StorageDataNetwork 1 O 5	letwork VLAN ID* 2 ©	
		Save & Close			Previous

步骤10.选择服务器作为节点分配的一部分。

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		Q I	B 5 ▲ 11 🛛 🖓	② Avinash Shukla
<u>00o</u>	Dashboards					
8	Servers	General	Cisco HyperFlex Fabric Interconnect cluste	r allows a minimum of 3 to a maximum o	f 32 nodes.	
\$	HyperFlex Clusters		Assign Nodes Assign Nodes Later			
₽	Fabric Interconnects	 Cluster Configuration 	Show selected(3) Select the	e servers		
6	Service Profiles	Nodes Assignment				
۵	Policies		Q Search		erns found 10 ~ per page	
Ø		Nodes Configuration		Assign Status	Model	
			hx-2-ucsm-2	Not Assigned	HX240C-M4SX	
		Summary	 hx-2-ucsm-4 	Not Assigned	HX240C-M4SX	
		Results	Nr-2-ucsm-3	Not Assigned	HX240C-M4SX	
			hx-2-ucsm-1	Not Assigned	HX240C-M4SX	
			Selected 3 of 4 Show Selected Unselected			
		Save & Close			Pn	evious Next

步骤11.配置并确认节点配置的虚拟机监控程序IP和存储控制器IP地址,

Ξ	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)				Q 🖬 5 🔺 11	ß	a,	۲	0	Avinash Shukla
010	Dashboards										
	Servers	General	IP & Hostname Settings								
\$	HyperFlex Clusters		Hostname Prefix hx-2	2-esxi	Management Subnet Mask	255.255.255.0	Manage Gateway	ment Netw	ark		
₽	Fabric Interconnects	 Cluster Configuration 	Management Network 172. Starting IP	2	Management Network Ending IP	172	Controll Mask	er VM Subn	et	255.255.255	
ß	Service Profiles	Nodes Assignment	Controller VM Gateway 172.		Controller VM Starting IP	172.	Controll	er VM Endir	ıg IP		
6	Policies	Nodes Assignment									
0	Devices	Nodes Configuration	Above shown IP & Hostnam	me settings were used	for nodes configuration auto	-complete. You can chan	ge configu	ration man	ally.		
		 Nodes Configuration Summary 		MAC Pr 00:25:1	efix Address * 2 B5:AA 2	₽					
		Results	Nodes (4) Expand All								
		Save & Close					(Previo	vus		Next

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			🗘 🖬 5 🔺 11	C 4 0	Ø Avinash Shukla
<u>00o</u>	Dashboards		172.	00:25:B5:AA			
8	Servers	General	Nodes (4) Collapse All				
\$	HyperFlex Clusters						
무	Fabric Interconnects	 Cluster Configuration 	- FCH2024V0NC				
6	Service Profiles	Nodes Assignment	Hostname * hx-2-esxi-1	Hypervisor IP *		Storage Controller IP *	٥
Ø	Policies	nuces Assayiment					
ø	Devices	Nodes Configuration					
			- PCH2045VTBQ				
		 Summary 	Hostname *	Hypervisor IP *		Storage Controller IP *	
		Desulte	IN 2 CONT2			176.	
		• Results					
			- FCH2024V0MN				
			Hostname *	Hypervisor IP *		Storage Controller IP *	
			hx-2-esxi-3	<u> </u>		172.1	
							Next

步骤12.单击**验证和部署并检查进度状态,然后等待安装完成。**

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			Ç) 🖬 5 🔺 11 🖂	ବ୍ ତ	Avinash Shukla
<u>00o</u>	Dashboards						Cluster Profil	a HY.7 was
8		e General	General				Updated.	Close
\$	HyperFlex Clusters		HyperFlex Cluster Name	HX-2	Assigned Nodes	4	Replication	3
₽	Fabric Interconnects	Cluster Configuration	HyperFlex Data Platform Version	3.5(2a)	Address	172	Address	00.23.03.44
õ	Service Profiles	Nodes Assianment						
۵	Policies							
ø	Devices	 Nodes Configuration 	Cluster Configuration	Nodes Configuration	Errors / Warnings			
			Security				root	
		Summary			The hypervisor on t default password		Yes	
		Results						
			DNS, NTP and Timezone				America/Vancouver	
							172. 172.	
							Validate	Validate & Deploy

步骤13.检查进度状态并等待安装完成。

General Cluster Configuration	HyperFlex Cluster Name Progress Current Stage	HX-2 67% Cluster deployment	HyperFlex Type Start Time	Cluster	Fi Mar 9, 2019 9:04 AM	Assigned Nodes Duration	4 17m 17s
 Nodes Assignment 	+ Expand All			≓ All (434)	In Progress (4)	Success (428) Failed	(0) Warning (2)
Nodes Configuration	— HyperFlex Cluster I	нх-2 ⊘		Ø Witness No	de IP Reachability Che	ck	
• Summary	 Witness Node DNS reachable 	e IP Reachability Check ility					
Results	NTP reachable	ility					
	Controllers no	ot in existing cluster check					
	vCenter Reve	rse Proxy Port check					
	SXi uniform	version check					

Cluster Configuration	HyperFlex Cluster HX-2 Name 100%	HyperFlex Cluster Type	Fl Mar 9, 2019 9:04	Assigned Nodes	4 1h 1m
	Progress Current Stage Cluster creation	Start Time	АМ	Duration	9s
 Nodes Assignment 	Expand All	≓ All (56	0) In Progress (0)	Success (558) Failed	(0) Warning (2)
Nodes Configuration	+ HyperFlex Cluster HX-2 ⊘	Node disl	k summary: e60b7bbb-f8	5f-b748-bb5d-5c6d1fdd087c	
Summary	+ UCS - hx-2-ucsm ⊘	Configuri	ng static ip on the specifi	ed ESXi servers	
Results	+ rack-unit-1 hx-2-esxi-4 (172.16.67.140)	Host data	a subnet check		
	+ rack-unit-2 hx-2-esxi-1 (172.16.67.137)	🛆 🛛 🖉 Host data	a subnet check		
	+ rack-unit-3 hx-2-esxi-3 (172.16.67.139)	Host data	a subnet check		
	+ rack-unit-4 hx-2-esxi-2 (172.16.67.138)	🛆 📀 Host data	a subnet check		

步骤14.请验证群集是ONLINE和HEALTHY并运行post_install.py脚本。

- 使用<root>(HX 4.0及以下)或<admin>(HX 4.5及以上)用户名和安装期间提供的控制器 VM密码通过SSH连接到集群管理IP地址并登录。
- 将以下命令粘贴到外壳中,然后点击enter:**hx_post_install**

验证

步骤1.检查服务配置文件下的服务配置文件状态。

≡	cisco Intersight	Service Profiles				Ω 🖪 43 🔺 12 🛛 🖓	③ ④ Avinash Sh	ukla 🕰			
<u>00o</u>	Dashboards	🔲 New features h	atures have recently been added! Learn More								
88		HyperFlex Cluster P	ter Profiles Server Profiles 🗄 Create HyperFlex Cluster Profile								
æ	HyperFlex Clusters										
무	Fabric Interconnects		Q Search			xport 1 items found 10 ~	perpage K < 1 of1 >> >>				
តា	Service Profiles	Name		Type ÷	Nodes	Status ÷	Last Update 🗢				
a	Policies					ок	Mar 9, 2019 10:05 AM				
6	Devices										

第2步:在Hyperflex集群下,确认HX集群运行状况和其他详细信息,

≡	cisco Intersight	HyperFlex Clusters							🗘 🖬 39 🖌	12	Q,	۲	O Avinash S	Shukla 🕰
<u>00o</u>	Dashboards	New features have recently been added! Learn More												×
8	Servers	Q Search							G Export 1 items found 11 ∨ per page K < 1 of 1 >> >> ③					
\$	HyperFlex Clusters		Name	• •	Health 🗢	Type 💠	HyperFlex 💲	Hypervisor 🗧	Storage Capacity		tion Stor	age Optimiz	Server Nodes	
Ŗ	Fabric Interconnects				Healthy	HyperFlex Hybrid	3.5(2a)	VMware vSphe	20.1		1%	0%		
6	Service Profiles													
1														
Ŷ														

步骤3.点击Name HX-2并浏览到配置文件详细信息,验证Details下的以下:

- •集群管理IP地址
- •存储VLAN ID
- 复制系数
- 集群类型

验证Configuration、

≡	uludu Intersight	HyperFlex Clusters > HX-2	🗘 🔳 39 🔺 12	ß	Q,	۲	0	Avinash Shukla 🗕	
<u>00o</u>	Dashboards	New features have recently been added! Learn M	ore						×
8	Servers	General Profile							
8	HyperFlex Clusters	Details	Configuration						E
₽	Fabric Interconnects	Status Ok	Cluster Nodes Results						
6	Service Profiles	Name HX-2	Network Configuration						er-network-policy 🗐
1	Policies	Description HX-2	Security					hx-2-local	credential-policy 🗐
Ŷ		Last Update Mar 9, 2019 10:05 AM	vCenter					hx-2-vce	nter-config-policy 🗐
		Assigned Nodes 4	Proxy Setting					hx-2-pro	xy-setting-policy 🗐
		HyperFlex Data Platform Version 3.5(2a)	UCS Manager Configuration					hx-2-u	sm-config-policy 🗐
		Replication Factor 3	IP & Hostname					hx-2-n	ode-config-policy 🗐
		Cluster Management IP Address 172.	Auto Support					hx-2-au	to-support-policy 🗐
		Storage Network VLAN ID 5	Storage Configuration					hx-2-clust	er-storage-policy 📶
		Storage Network VLAN Name StorageDataN	DNS, NTP and Timezone					hx-2-	sys-config-policy 🗐
		UU.23.D3.AA							

步骤4.在Intersight上从Hyperflex集群**交叉启**动Hyperflex Connect,并从Hyperflex Connect验证集 **群状态**。

≡	cisco Intersight	HyperFlex Clusters								12	٩	۲	Ø Avinash S	ihukla 🖉
<u>00o</u>	Dashboards	III Ne	I New features have recently been added! Learn More											×
8	Servers	⊘ Q Search G Export 1 items found 11 v per page K ≤												
\$	HyperFlex Clusters		Name		Health ‡	Type ‡	HyperFlex 🕴	Hypervisor ‡	Storage Capacity	Storage Utilizati		ige Optimiz	Server Nodes	
5	Fabric Interconnects				Healthy	HyperFlex Hybrid	3.5(2a)	VMware vSphe_	20.1	1.05		0*		
6	Service Profiles												Launch HyperFlex C	onnect
1												Ľ		
ŵ	Devices													

· ·		https://intersight.com/nx/starget=5063e4	sbol72012031aabosaascope=nx	(-3.5.2d#/clusters/1		× .
=	сіясо Нуре	rFlex Connect		HX-2		Ω <mark>∞</mark> 2 ₿ Ø ₽
Θ	\oslash	OPERATIONAL STATUS Online				
↓	-∕∕~•	RESILIENCY HEALTH Healthy ①			✓ 1 Node failure can be tolerated	
Î	Ð	сарасіту 20.1 тв	1.0% 195.9 GB Used	19.9 TB Free	STORAGE Storage optimization, com OPTIMIZATION usage.	pression and deduplication ratios will be ufficient information regarding cluster

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