Cisco Intersight - Hyperflex-Installation, -Konfiguration und -Bereitstellung auf VMware ESXi

Inhalt

Einleitung Voraussetzungen Anforderungen Unterstützte Versionen für HX FI-verbundene Cluster-Bereitstellungen Intersight-Konnektivität Sonstige Anforderungen Verwendete Komponenten Konfigurieren Netzwerkdiagramm Konfigurationsschritte Überprüfung

Einleitung

Cisco Intersight vereinfacht den Rechenzentrumsbetrieb durch die Bereitstellung von System-Management-as-a-Service, sodass keine isolierten Management-Infrastrukturen vor Ort mehr erforderlich sind.

Cisco Intersight bietet einen Installationsassistenten für die Installation, Konfiguration und Bereitstellung von Cisco HyperFlex-Clustern - HX Edge und FI-attached. Der Assistent erstellt eine Vorkonfigurationsdefinition des Clusters, die als HX-Clusterprofil bezeichnet wird. Diese Definition ist eine logische Darstellung der HX-Knoten in Ihrem HX-Cluster und umfasst

- Sicherheit Anmeldeinformationen für HyperFlex-Cluster wie Controller-VM-Kennwort, Hypervisor-Benutzername und Kennwort.
- Konfiguration Serveranforderungen, Firmware usw.
- Anbindung Upstream-Netzwerk, virtuelles Netzwerk usw.

Dieses Dokument enthält die Schritte und einen Screenshot zur Bereitstellung von FI-Attached Hyperflex-Clustern mithilfe von Intersight.

Voraussetzungen

Anforderungen

Unterstützte Versionen für HX FI-verbundene Cluster-Bereitstellungen

Komponente

M4-, M5-Server

Version/Version

HX220C-M4S

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

Device Connector

Intersight-Konnektivität

Automatische Aktualisierung durch Cisco Intersight

Berücksichtigen Sie die folgenden Voraussetzungen für Intersight-Konnektivität:

- Stellen Sie sicher, dass der **Geräteanschluss** der entsprechenden UCS Manager-Instanz für die Verbindung mit **Cisco Intersight** richtig konfiguriert ist und beantragt wird.
- Alle Geräteverbindungen müssen **svc.ucs-connect.com** ordnungsgemäß auflösen und ausgehende, initiierte HTTPS-Verbindungen auf Port 443 zulassen.
- Hyperflex Installer Version bis 3.5(2a) unterstützt die Verwendung eines HTTP-Proxys, außer wenn der Cluster neu bereitgestellt wird und nicht ab Werk neu ist.
- Alle VM-Verwaltungsschnittstellen des Controllers müssen download.intersight.com ordnungsgemäß auflösen und ausgehende, initiierte HTTPS-Verbindungen auf Port 443 zulassen. Die aktuelle Version von HX Installer unterstützt die Verwendung eines HTTP-Proxys, wenn keine direkte Internetverbindung verfügbar ist, außer wenn der Cluster neu bereitgestellt wird und nicht werkseitig neu ist.
- Auf den vorgesehenen ESX-Server, das HX-Controller-Netzwerk und den vCenter-Host muss über die UCS Fabric Interconnect-Managementschnittstellen zugegriffen werden können.
- Ab HXDP-Version 3.5(2a) ist f
 ür das Intersight-Installationsprogramm keine werkseitig installierte Controller-VM auf den HyperFlex-Servern erforderlich. Diese Anforderung gilt jedoch auch dann, wenn die Verbindung zu Intersight
 über einen HTTP-Proxy erfolgt. Alle NEUEN HX-Server können wie gewohnt mit einem HTTP-Proxy bereitgestellt werden.
 Sonstige Anforderungen

Software-Mindestanforderungen Physische Anforderungen

Netzwerkanforderungen

Portanforderungen

Bereitstellungsinformationen

Verwendete Komponenten

- Cisco Interview
- Cisco UCSM
- Cisco HX-Server
- Cisco HyperFlex
- VMware ESXi

VMware vCenter

Konfigurieren

Netzwerkdiagramm

• Cisco Intersight bietet eine einfache Möglichkeit zur Bereitstellung von HyperFlex-Clustern, indem HyperFlex Installer in alle Editionen von Cisco Intersight integriert wird.



Konfigurationsschritte

Schritt 1: Melden Sie sich bei Cisco Intersight an, und wählen Sie das Benutzerkonto wie unten gezeigt aus.



Schritt 2: Klicken Sie im Dashboard auf die Registerkarte Geräte im rechten Bereich.



Schritt 3. Klicken Sie unter Geräte auf Neues Gerät anfordern.

☆

	cisco Intersight	Devices						🗘 🖬 12	🔺 11 🛛 🖸			O Avinash S	Shukla 🖉
<u>00o</u>	Dashboards	New	features	have recently been add	fed! Learn More								×
												Claim a New	Device
\$	HyperFlex Clusters												
	Fabric Interconnects			Search Hyperflex ×	Search				0 items found	10 v per p	age [K < 0 of 0 > 거	
ß	Service Profiles		Name		Status	Туре	Device IP		Device ID			Claimed By	
6	Policies												
Ø	Devices												
												K < 0 of 0	

Schritt 4: Melden Sie sich bei UCS Manager an, und navigieren Sie zu Admin -> Device Connector. Klicken Sie auf Settings, um Access Mode und Proxy Configuration zu konfigurieren.

.	All	All / Device Connector			
	 Internal Loss 				
	LAN Cloud				
	SAN Cloud			_	
쁆	► root 🕚	Intersight Management	Settings	×	
_	Time Zone Management				
-	 Capability Catalog 	Enabled	General	Proxy Configuration Certificate Manager	
	Adapters		Annese Made		SSI201001PJ
	Blade Servers	When this option is enabled, you can c this system and leverage the capabilit	Access Mode		
	CPUs	of Cisco Intersight.	Read-only		1 🚯
	Chassis	If disabled, no communication will be	Allow Control		
	Coprocessor Cards	allowed to cisco intersigni.		1	
1.	Crypto Cards				
-0	Fan Modules				
	GPU Cards				
	IO Modules				
	Local Disks				
	Memory Units				
	Mini Storage				
	PSUs				
	Pack-Mount Servers			Cancel Ok	
	Storage Controllare				
	Licence Management				
	Paules Connector				
	Device Connector				
æ	All	All / Device Connector			
#	All v r initial Leav	All / Device Connector			
ж 8	All v + Internet Gev + LAN Cloud	All / Device Connector			
	All Internal Det LAN Cloud SAN Cloud	All / Device Connector The Device Connector is an embedded manager device connector, please visit Page Center	ment controller that enables the cap		or detailed information about configuring the
.∓. ∎ &	All Internet Dev LAN Cloud SAN Cloud root	All / Device Connector The Device Connector is an embedded manager device connector, please visit rate Conter Intersight Management	Settings	billities of Cisco Intersight, a cloud-based management platform. F	or detailed information about configuring the
· 	All Internet Dev LAN Cloud SAN Cloud root Time Zone Management	All / Device Connector The Device Connector is an embedded manage device connector, please visit rang Conter Intersight Management	Settings	bilities of Cisco Intersight, a cloud-based management platform. F	or detailed information about configuring the
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	All	All / Device Connector is an embedded manage device connector please visit help Center Intersight Management Essent	Settings General	bilities of Cluco Interright: a cloud based management platform. F X Proxy Configuration Certificate Manager Enabled	or detailed information about configuring the
	All	All / Device Connector is an embedded manager device connector, please visit Help Center Intersight Management Ensisted When this option is enabled, you can be this system and leverage the capability	Settings General	bilities of Cluco Intensight a cloud-based management platform. C X Proxy Configuration Certificate Manager Enabled	or detailed information about configuring the
	All	All / Device Connector is an embedded manager device connector, please visit Help Center. Intersight Management Enseted When this option is enabled, you can be this system and leverage the capability	ment controller that enables the capt Settings General HTTPS Proxy Proxy Hostname/IP *	blinks of Chico Interright, a cloud based management platform. C Proxy Configuration Certificate Manager Enabled Proxy Port *	or detailed information about configuring the SSI201001PJ
	All	All / Device Connector The Device Connector is an embedded manager device connector, please visit Help Center Intersight Management Enseted When this option is enabled, you can be this system and leverage the capability of Cisco Intersight. If disabled, no communication will be advered to Cisco Intersight.	Settings General HTTPS Proxy Proxy Hostname/IP *	Proxy Configuration Certificate Manager Proxy Port *	or detailed information about configuring the SSI201001PJ C SSI201001PJ C
	All	All / Device Connector The Device Connector is an embedded manager device connector, please visit Help Conter- Intersight Management Establish When this option is enabled, you can be this system and leverage the capability of Claco Intersight. If disabled, no communication will be allowed to Claco Intersight.	Settings General HTTPS Proxy Proxy Hostname/IP *	Proxy Configuration Proxy Port * Proxy Port * Proxy Port * O	or detailed information about configuring the SSI201001PJ C SSI201001PJ C
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	All ▼ Inversion Driv LAN Cloud SAN Cloud root ② Time Zone Management Capability Catalog Adapters Blade Servers CPUs Chassis Coprocessor Cards Crypto Cards Fan Modules GPU Cards IO Modules Local Disks Memory Units Mini Storage	All / Device Connector	Settings General HTTPS Proxy Proxy Hostname/IP *	bilities of Cloco Intersight, a cloud based management platform. F Proxy Configuration Certificate Manager Enabled Proxy Port * 8080	at detailed information about configuring the SSI201001PJ
	All ▼ ► LAN Cloud ► ► LAN Cloud ► ► SAN Cloud ► ► root ② ● Time Zone Management ● Capability Catalog ■ Adapters ■ Blade Servers CPUs Chassis Coprocessor Cards Crypto Cards ■ GPU Cards ■ IO Modules ■ Local Disks Memory Units Mini Storage ■ PSUs ●	All / Device Connector	Settings General HTTPS Proxy Proxy Hostname/IP *	hittee of Cloco Interright, a cloud based management platform. P Proxy Configuration Certificate Manager Enabled Proxy Port * 8080 0	at detailed information about configuring the SSI201001PJ
	All	All / Device Connector	Settings General HTTPS Proxy Proxy Hostname/IP *	bilities of Cloco Interregift, a cloud based management platform. F Proxy Configuration Certificate Manager Enabled Proxy Port * 8080 K	at detailed information about configuring the SSI201001PJ
	All	All / Device Connector	Settings General HTTPS Proxy Proxy Hostname/IP *	bilities of Cloco Interregift, a cloud based management platform. F Proxy Configuration Certificate Manager Enabled C Proxy Port * 8080 0	at detailed information about configuring the SSI201001PJ C
	All	All / Device Connector	Settings General HTTPS Proxy Proxy Hostname//P *	bilities of Cloco Interregift, a cloud based management platform. F Proxy Configuration Certificate Manager Enabled Proxy Port * 8080 K	or detailed information about configuring the SSI201001PJ

Schritt 5: Navigieren Sie im UCS Manager zu Admin -> Device Connector. Aktivieren Sie die Umschaltfläche Intersight Management, und rufen Sie die Geräte-ID und den Claim-Code ab.



Schritt 6: Verwenden Sie auf dem Intersight-Konto den Forderungscode und die Geräte-ID (erfasst in Schritt 5), um das Gerät anzufordern. Nun wird die UCSM-Domäne beansprucht.

≡	cisco Intersight	Device Claim		🗘 🖪 35 🔺 12	ß	٩	۲	0	Avinash Shukla 🔬
<u>00o</u>	Dashboards	New features have recently been added! Learn More							×
8	Servers								
\$	HyperFlex Clusters								
₽	Fabric Interconnects								
6	Service Profiles								
1	Policies								
9	Devices		Claim A New Device To claim your device, you must have the Device ID and C Device ID * SSI Claim Code * Required	laim Code.					

Schritt 7: Überprüfen Sie unter "Geräte", ob die neue Domäne "Verbunden" und "Beansprucht" angezeigt wird. Überprüfen Sie außerdem, ob Sie nun die Möglichkeit haben, Intersight für die UCSM-UI und UCSM-CLI zu starten.

<u>00o</u>	Dashboards									CI	aim a New D	evice
	Servers											
8	HyperFlex Clusters		Q Search					12 v per page	K			
	Fabric Interconnects		Name	Status 🗘	Туре	Device IP	Device ID		Claim	ed By		
6	Service Profiles			Connected	UCS Domain		ss	1PJ		du@claco.		
	Policies									ĸ	Launch U	ICSM
Ŷ	Devices										Launch C	au -

Schritt 8. Klicken Sie unter Serviceprofile auf Hyperflex-Clusterprofil erstellen.

<u>00o</u>		Hyper	Flex C	Tex Cluster Profiles Server Profiles 🙃								Profile			
8															
\$	HyperFlex Clusters				Search								perpage 📧 < 0		
₽	Fabric Interconnects								Nodes		Status		Last Update		
බ්	Service Profiles														
íi)	Policies														
Ø				Sele	cted 1 of 0									< < 0 of 0	

Schritt 9: Konfigurieren Sie das Serviceprofil wie folgt:

Allgemeine Aufgaben

=	cisco Intersight	Create HyperFlex Cluster Profile		φ.	5 🔺 11				Avinash Shukla
<u>00o</u>	Dashboards		Prior to creating a HyperFlex Cluster profile, ensure that y	ou go through the pre-instal	lation checklis	t and the de	tailed HyperF		
		General	installation instructions, here						
\$	HyperFlex Clusters		Name* HX-2						
₽	Fabric Interconnects	Cluster Configuration							
6	Service Profiles	 Nodes Assignment 	HyperFlex Data Platform Version 3.5(2a) \checkmark \odot						
ſ									
ø	Devices	Nodes Configuration	Type O Cisco HyperFlex Edge Cisco HyperFlex with Fabric In	iterconnect 3					
		Summary	Replication Factor ⊘ 4 ⊖ 2 ⊙ 3						
		Results	Description HX-2 5						
			Add Tag						
		Cancel							Next

Clusterkonfiguration - Sicherheit

≡	cisco Intersight	Create HyperFlex Cluster Profile	Q 🖬 5 🔺 11 🕑 🔍 🧿	O Avinash	Shukla
<u>00o</u>	Dashboards				1
8	Servers	General	— Security 🛆		
\$	HyperFlex Clusters		Munancient Admin *		
무		Cluster Configuration	root <u>1</u>		
â	Service Profiles	Nodes Assignment			
1	Policies		The hypervisor on this node uses the factory default password		
ø	Devices	 Nodes Configuration 	Hypervisor Password * Hypervisor Password Confirmation *	@ 0 2	2
		Summary	Controller VM Admin Password * Controller VM Admin Password Confirmation *	(3
		- Results	+ DNS, NTP and Timezone		
			+ vCenter (optional)		
			+ Storage Configuration (optional)		
			+ Auto Support (optional)		
		Save & Close			

Cluster-Konfiguration - DNS, NTP und Zeitzone

≡	cisco Intersight	Create HyperFlex Cluster Profile	Q 🖬 5 🔺 11 🛛 🖓	۹ ۵	② Avinash Shukla
<u>00o</u>	Dashboards				
=		• General	+ Security 🖉	hx-2-local-	credential-policy
\$	HyperFlex Clusters		- DNS, NTP and Timezone		
무	Fabric Interconnects	Cluster Configuration	Timezone * DNS Suffix		
6	Service Profiles	 Nodes Assignment 	America/Vancouver 1 v o sjs.local		<u>2 o</u>
1	Policies				
Ø		 Nodes Configuration 	172.14100 3 0 172.14100		<mark>4 ∞</mark> +
		• Summary	- DNS Servers * 172.1		
		Results	+ vCenter (optional)		
			+ Storage Configuration (optional)		
			+ Auto Support (optional)		
			+ IP & Hostname		

Cluster-Konfiguration - vCenter-Konfiguration

≡	cisco Intersight	Create HyperFlex Cluster Profile	Q 🖬 5 🔺 11 🕑 Q	O 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) 🛆		
무	Fabric Interconnects	Cluster Configuration	vCenter Server FQDN or IP * vCenter Username * vCenter Password *		
6	Service Profiles	 Nodes Assignment 	172.	3 @ 0	
1			vCenter Datacenter Name * VCenter Single-Sinn-On Server		
Ŷ	Devices	 Nodes Configuration 	Hx-2 4 • (Optional) •		
		. Directory			
		 Summary 	+ Storage Configuration (optional)		
		Results	+ Auto Support (optional)		
			+ IP & Hostname		
			+ UCS Manager Configuration		
			+ Network Configuration		
			+ External FC Storage (optional)		

Hinweis: - Für die vCenter-Konfiguration wird empfohlen, den vCenter Single-Sign-On-Server zu überspringen. Siehe unten Dokument Seite 27,

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

Cluster-Konfiguration - Speicherkonfiguration

≡	cisco Intersight	Create HyperFlex Cluster Profile	다. 🖪 5 🔺 11 🕑 🔍 💮 Avinash St	ukla
<u>00o</u>	Dashboards		T JEWIIY 🔍 IIA'2'IN-B'LIEVENBADANIN' 🔝	
8		General	+ DNS, NTP and Timezone 🖉 hx-2-sys-config-policy 🏢	. 1
â	HyperFlex Clusters		+ vCenter (optional) 🖉 hx-2-vcenter-config-policy 👔	
무	Fabric Interconnects	Cluster Configuration	- Storage Configuration (optional)	l
õ	Service Profiles	Nodes Assignment	Logical Availability Zones configuration is recommended for HyperFley Clusters with 8 or more nodes connected to Fl	
1				
Ŵ	Devices	 Nodes Configuration 	U VDI Optimization ◎ Clean up Disk Partitions ◎ Logical Availability Zones ◎	
			+ Auto Support (optional)	J
		 Summary 	+ IP & Hostname Select Policy	l
		Results	+ UCS Manager Configuration	
			+ Network Configuration	
			+ External FC Storage (optional)	
			+ External ISCSI Storage (optional)	- 1
			+ Proxy Setting (optional)	
		Save & Close	Previous	

Cluster-Konfiguration - Automatische Unterstützung

≡	cisco Intersight	Create HyperFlex Cluster Profile		Q 🖬 5 🔺 11 💽	3 9	© 0	Avinash Shukla
<u>00o</u>	Dashboards						
8		• General	+ Security 🕗			hx-2-local-credential	-policy 🗐
\$	HyperFlex Clusters		+ DNS, NTP and Timezone			hx-2-sys-config	policy 🗐
₽	Fabric Interconnects	Cluster Configuration	+ vCenter (optional)			hx-2-vcenter-config	policy 🗐
6	Service Profiles		+ Storage Configuration (optional)			hx-2-cluster-storage	-policy
£	Policies	 Nodes Assignment 	— Auto Support (optional)				
Ŷ	Devices	 Nodes Configuration 	1 Auto-Support () Send Service	Ticket Notification to			
		 Summary 	[+] IP & Hostname				
		Results	+ UCS Manager Configuration				
			+ Network Configuration				
			+ External FC Storage (optional)				
			+ External iSCSI Storage (optional)				
		Save & Close					

Cluster-Konfiguration - IP und Hostname

=	cisco Intersight	Create HyperFlex Cluster Profile		다 🖬 5 🛦 11 🕑 🧠 🦁 🔿 Avinash Shukla
<u>00a</u>	Dashboards			
88		📍 General	+ Auto Support (optional)	hx-2-auto-support-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.	_ <u>172.100000</u>
		Summary	Management Network Subnet Mask * 255.255.255.0 ©	Management Network Gateway* 4 o
		Results	Controller VM Management Network Starting IP 5 ©	Controller VM Management Network Ending IP 172.1
			Controller VM Management Network Subnet Mask 7 O	Controller VM Management Network Gateway 172.1
		Save & Close		Previous

Clusterkonfiguration - UCSM-Konfiguration

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			0 □ 5 ▲ 11 🛛	۹ ©	O Avinast	h Shukla
<u>00o</u>	Dashboards		+ ID & Hostoame			hv.2-oo	de confin noliny (<u>എ</u>
		General	- UCS Manager Configuration			114-2-110	Select Policy	2 9
\$	HyperFlex Clusters							
무	Fabric Interconnects	Cluster Configuration	Server Firmware Version * 4.0(1c)					
6	Service Profiles	 Nodes Assianment 						
ſ			MAC Prefix Starting Address * 00:25:B5:AA	2 0	MAC Prefix Ending Address *			
ø	Devices	 Nodes Configuration 						
		Summary	KVM Starting IP * 172.		KVM Ending IP * 172.		0	
		Results	KVM Subnet Mask * 255.255.255.0	<u>6 o</u>	KVM Gateway * 172. Required		0	
			+ Network Configuration					
			+ External FC Storage (optional)					

Cluster-Konfiguration - Netzwerk

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		ᢕ ◙ 5 ▲ 11 🕑	۹ ©	O Avina	ash Shukla
<u>00o</u>	Dashboards		+ IP & Hostname 😒		nx-2-noo	e-contig-policy	
8	Servers	General	+ UCS Manager Configuration		hx-2-ucs	n-config-policy	
\$	HyperFlex Clusters		- Network Configuration				
무	Fabric Interconnects	Cluster Configuration	Management Network VLAN Name *	Management Network VLAN ID			
â	Service Profiles	 Nodes Assignment 	HX-MGMT 1	© <u>67</u>	2	<u>0</u>	ſ
۵	Policies		VM Migration VLAN Name *	VM Migration VLAN ID *			
Ø	Devices	 Nodes Configuration 		<u> </u>		0	
		Summary	VM Network VLAN Name * HX-VMNETWORK 5	VM Network VLAN ID *		<u> </u>	
		Results	● Jumbo Frames ② 7				
			+ External FC Storage (optional)				
			+ External ISCSI Storage (optional)				6
			+ Proxy Setting (optional)	\$			
		Save & Close			Previous	Next	

Cluster-Konfiguration - Externer Speicher (optional)

Wenn aktiviert, geben Sie den VSAN-Namen und die VSAN-ID für FI A bzw. FI B ein.

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			L 🛛 5 ▲ 11 🗹 🔍		ash Shukla
010	Dashboards		+ Storage Configuration (optional)			hx-2-cluster-storage-policy	
		General	+ Auto Support (optional)			hx-2-auto-support-policy	
\$	HyperFlex Clusters		+ IP & Hostname ⊘			hx-2-node-config-policy	
무	Fabric Interconnects	Cluster Configuration	+ UCS Manager Configuration	+ UCS Manager Configuration 🔗			
6	Service Profiles	 Nodes Assignment 	+ Network Configuration 🔗			hx-2-cluster-network-policy	
1			External FC Storage (optional)				
Ŷ	Devices	Nodes Configuration	Enable FC Storage Fables or disables even	nfiguration.			
		Summary	VSAN A Name *	0	VSAN A ID *	•	
		Results					
			VSAN B Name *	0	VSAN B ID *	0	
			WWxN Range Starting Address * 20:00:00:25:85:	<u> </u>	WWxN Range Ending Address * 20:00:00:25:85:	0	
		Save & Close			Pre	wious Next	

Clusterkonfiguration - Proxyeinstellung (optional)

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		🚨 🖬 5 🔺 11	₽ ¢	0	Avinash Shukla
<u>00o</u>	Dashboards						
8	Servers	• General	+ Auto Support (optional)			hx-2-auto-suppo	ort-policy
\$	HyperFlex Clusters		+ IP & Hostname 🔗			hx-2-node-cont	fig-policy 🗐
무	Fabric Interconnects	Cluster Configuration	+ UCS Manager Configuration 🔗			hx-2-ucsm-con	fig-policy 📋
മീ	Service Profiles		+ Network Configuration 🔗			hx-2-cluster-netwo	ork-policy 🗐
in and a second	Policies	 Nodes Assignment 	+ External FC Storage (optional)				
å	Devices	Nodes Castieuration	+ External iSCSI Storage (optional)				
Ψ	Devices	Nodes Configuration	— Proxy Setting (optional)				
		Summary	Hostname* Port*		Username		0
		Results					
			Password 👁 🛛	₽			
			+ HyperFlex Storage Network 🔗				
		Save & Close			Prev	vious	2

Cluster-Konfiguration - Hyperflex Storage Network

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		Q 🖬 5 🔺 11	ß	Q,	0	0	Avinash Shukla
<u>00o</u>	Dashboards								
8		• General	+ vCenter (optional)				hx-2-vcer	nter-config-	policy 📋
\$	HyperFlex Clusters		+ Storage Configuration (optional)				hx-2-clust	er-storage-	policy 🗐
Ŧ	Fabric Interconnects	Cluster Configuration	+ Auto Support (optional) 🔗				hx-2-aut	to-support-	policy 🗐
6	Service Profiles		+ IP & Hostname 🔗				hx-2-nd	ode-config-	policy 🗐
a	Policies	 Nodes Assignment 	+ UCS Manager Configuration ⊘				hx-2-uc	sm-config-	policy 📋
	Devices	 Nodes Configuration 	+ Network Configuration	,			hx-2-cluste	er-network-	policy 🗐
Ť			+ External FC Storage (optional)						
		 Summary 	+ External iSCSI Storage (optional)						
			+ Proxy Setting (optional)				hx-2-pro	xy-setting-	policy 🗐
		Results	— HyperFlex Storage Network 🔺						
			Storage Network VLAN Name * Stor HX-StorageDataNetwork 1 © 5	age Network VLAN ID * 2 ©					
									Next

Schritt 10: Wählen Sie die Server als Teil der Knotenzuweisung aus.

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)			Q 🛚 5 🔺 11 🛛 🖓	Q, @ 0	Avinash Shukla
<u>00o</u>	Dashboards						
8	Servers	General	Cisco HyperFlex Fabric Interconnect clu	ster allows a minimum of 3 to a ma	aximum of 32 nodes.		
\$	HyperFlex Clusters		Assign Nodes Assign Nodes Li	ater			
₽	Fabric Interconnects	 Cluster Configuration 	Show selected(3) Select t	he servers			
õ	Service Profiles	Nodes Assignment					
۵	Policies		Q Search		4 items found 10 ~	perpage 🖂 🤇 1 of 1 🖸	
Ŷ		 Nodes Configuration 		Assign Status	Model		
			hx-2-ucsm-2	Not Assigned	HX240C-M4SX		
		 Summary 	kx-2-ucsm-4	Not Assigned	HX240C-M4SX		
		Results	hx-2-ucsm-3	Not Assigned	HX240C-M4SX		
		- nounu	hx-2-ucsm-1	Not Assigned	HX240C-M4SX		
			Selected 3 of 4 Show Selected Unit				
		Save & Close				Previous	Next

Schritt 11: Konfiguration und Bestätigung der IP-Adresse des Hypervisors und des Storage-Controllers für die Knotenkonfiguration,

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		Q 🖬 5 🔺 11		② Avinash Shukla
<u>01o</u>	Dashboards					
	Servers	General	IP & Hostname Settings			
\$	HyperFlex Clusters		Hostname Prefix hx-2-esxi Manager	ment Subnet Mask 255.255.255.0	Management Network Gateway	
₽	Fabric Interconnects	 Cluster Configuration 	Management Network 172. Manager Starting IP Ending II	ment Network 172.	Controller VM Subnet Mask	255.255.255.0
6	Service Profiles	No de a basterna est	Controller VM Gateway 172. Controlle	er VM Starting IP 172.	Controller VM Ending IP	
1	Policies	 Nodes Assignment 				
ø	Devices	Nodes Configuration	Above shown IP & Hostname settings were used for node	s configuration auto-complete. You can chan	ge configuration manually.	
		Summary	Cluster Management IP Address * MAC Prefix Address * 00:25:85:AA 00:25:85:AA 00:25:85:AA	^{ess*} 2 \$		
		Results				
		Save & Close			Previous	Next

≡	cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)		11 🗖 5 🗖 1	₽ 4 @ (Avinash Shukla
<u>00o</u>	Dashboards		172. 00.25.B5:AA			
8	Servers	General	Nodes (4) Collapse All			
\$	HyperFlex Clusters		F01100011/01/0			
₽	Fabric Interconnects	Cluster Configuration	- FCH2024VUNG			
ß	Service Profiles	Nodes Assignment	Hostname * Hyp hx-2-esxi-1 © 172	ervisor IP *	Storage Controller IP * 172.1	٥
Ø	Policies					
ø	Devices	Nodes Configuration	- FCH2045V1B0			
		 Summary 	Hostname * Hyp hx-2-esxi-2 © 17:	ervisor IP * 2.	Storage Controller IP * 172.1	٥
		Results				
			- FCH2024V0MN			
			Hostname * Hyp hv:2-aevi-2 0 17	vervisor IP *	Storage Controller IP *	
					172.	
		Save & Close			Previous	Next

Schritt 12: Klicken Sie auf Validieren und Bereitstellen, überprüfen Sie den Status, und warten Sie, bis die Installation abgeschlossen ist.

≡	ະເມີນໄປ cisco Intersight	Edit HyperFlex Cluster Profile (HX-2)				Q 🛛 5 🔺 11 🖂	ବ୍ ତ	Avinash Shukla ,
<u>00o</u>	Dashboards						- Churter Profe	ile kiV.2 was
8		• General	General				Updated.	Close
\$	HyperFlex Clusters		HyperFlex Cluster Name	HX-2	Assigned Nodes	4	Replication	3
₽	Fabric Interconnects	Cluster Configuration	HyperFlex Cluster Type HyperFlex Data Platform Version	FI 3.5(2a)	Cluster Management IP Address	172.	MAC Pretix Address	00:25:85:AA
6	Service Profiles	Nodes Assignment						
1	Policies							
ø	Devices	 Nodes Configuration 	Cluster Configuration Node	es Configuration	Errors / Warnings			
		Security				root		
		Summary			The hypervisor or default password		Yes	
		Results						
			DNS, NTP and Timezone				America/Vancouver	
							172. 172.	
						Previous	Validate	Validate & Deploy

Schritt 13: Überprüfen Sie den Status, und warten Sie, bis die Installation abgeschlossen ist.

General Cluster Configuration	HyperFlex Cluster Name Progress Current Stage	HX-2 67% Cluster deployment	HyperFlex Cluster Type Start Time	Fl Mar 9, 2019 9:04 AM	Assigned Nodes Duration	4 17m 17s
 Nodes Assignment 			≓ All (43	4) In Progress (4)	Success (428) Failed	(0) Warning (2)
Nodes Configuration	- HyperFlex Cluster I	HX-2 ⊘	Witness I	Node IP Reachability Chec		
Summary	Witness Node	e IP Reachability Check				
	🥑 DNS reachab	ility				
Results	NTP reachab	ility				
	Controllers no	ot in existing cluster check				
	vCenter Reve	rse Proxy Port check				
	ESXi uniform	version check				
Close						Summary

Cluster Configuration	HyperFlex Cluster HX-2 Name 100% Progress Cluster creation	HyperFlex Cluster FI Assigned 4 Type Nodes Mar 9, 2019 9:04 1h 1m Start Time AM Duration 9s
Nodes Assignment	Expand All	≓ All (560) In Progress (0) Success (558) Failed (0) Warning
Summary	+ HyperFlex Cluster HX-2 ⊘	Node disk summary: e60b7bbb-f86f-b748-bb5d-5c6d1fdd087c
Results	+ UCS - hx-2-ucsm ⊘ + rack-unit-1 hx-2-esxi-4 (172.16.67.140) ⊘	 Configuring static ip on the specified ESXi servers Host data subnet check
	+ rack-unit-2 hx-2-esxi-1 (172.16.67.137) 🛕	Ø Host data subnet check
	+ rack-unit-3 hx-2-esxi-3 (172.16.67.139)	Host data subnet check

Schritt 14. Überprüfen Sie, ob der Cluster ONLINE und GESUND ist, und führen Sie dasSkript post_install.py aus.

- SSH zur IP-Adresse des Clustermanagements und Anmeldung mit <root> (HX 4.0 und niedriger) oder <admin> (HX 4.5 und höher) Benutzername und dem bei der Installation bereitgestellten VM-Kennwort des Controllers.
- Fügen Sie den folgenden Befehl in die Shell ein, und drücken Sie die Eingabetaste: hx_post_install

Überprüfung

Schritt 1: Überprüfen Sie den Serviceprofilstatus unter "Serviceprofile".

≡	cisco Intersight	Service Profiles			다 🖪 43 🔺 12 🛛 🖓	🕄 🕐 Avinash Shukla 🖉			
<u>00o</u>	Dashboards	New features have recently been added! L	ew features have recently been added! Learn More						
88	Servers	HyperFlex Cluster Profiles Server Profiles 🛱	DerFlex Cluster Profiles Server Profiles 🛱						
*	HyperFlex Clusters								
무	Fabric Interconnects	1 I C Q Search			port 1 items found 10 v p	verpage K K <u>1</u> of 1 🔉 🕅 🕄			
6	Service Profiles	Name ÷	Туре 🗘	Nodes	Status ÷	Last Update 💠 🔗			
1	Policies				ок	Mar 9, 2019 10:05 AM ····			
6	Devices								

Schritt 2. Bestätigen Sie unter Hyperflex Cluster den Zustand des HX-Clusters und andere Details.

≡	cisco Intersight	HyperFlex Clusters							Q 🛛 39	<u>▲</u> 12	ß	۹ ۵		Avinash S	hukla 🕰	
<u>00o</u>	Dashboards	📰 Ne	New features have recently been added! Learn More													
8	Servers		Q.	Search							items fo	und 11	✓ per page K		1 of1 >> >>	Ø
\$	HyperFlex Clusters		Name		Health		Type 🗘	HyperFlex 💲	Hypervisor 🗧	Storage Capacity		rage Utilization	Storage Optim		Server Nodes	
₽	Fabric Interconnects				O Healt	thy	HyperFlex Hybrid	3.5(2a)	VMware vSphe	20.1		1.0%		0%		
6	Service Profiles															
1																
Ŵ																

Schritt 3. Klicken Sie auf den Namen HX-2 und navigieren Sie zu den Profildetails. Überprüfen Sie Folgendes unter "Details"

- IP-Adresse für die Clusterverwaltung
- Speicher-VLAN-ID
- Replikationsfaktor
- Cluster-Typ

Überprüfen der verschiedenen Richtlinien und Knotendetails unter Konfiguration

≡	cisco Intersight	HyperFlex Clusters > HX-2		🗘 🖪 39 🔺 12	යි (ව Avinash Shukla වූ
<u>00o</u>	Dashboards	New features have recently been added! Learn M	Aore		×
88	Servers	General Profile			
\$	HyperFlex Clusters	Details	Configuration		
Ŧ	Fabric Interconnects	Status Ok	Cluster Nodes Results		
6	Service Profiles	Name HX-2	Network Configuration		hx-2-cluster-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-vcenter-config-policy 🗐
		Assigned Nodes 4	Proxy Setting		hx-2-proxy-setting-policy 🗐
		HyperFlex Data Platform Version 3.5(2a)	UCS Manager Configuration		hx-2-ucsm-config-policy 📶
		Replication Factor 3	IP & Hostname		hx-2-node-config-policy 🗐
		Cluster Management IP Address 172.	Auto Support		hx-2-auto-support-policy 🗐
		Storage Network VLAN ID 5	Storage Configuration		hx-2-cluster-storage-policy 📶
		Storage Network VLAN Name StorageDataN MAC Prefix Address 00:25:85:AA	DNS, NTP and Timezone		hx-2-sys-config-policy

Schritt 4: Starten Sie Hyperflex Connect von Hyperflex Clusters auf Intersight und überprüfen Sie den Cluster-Status von Hyperflex Connect.

≡	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													
\$	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
ſ												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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