implementatiegids voor HyperFlex Stretch clusters

Inhoud

Inleiding Voorwaarden Vereisten Gebruikte componenten Overige vereisten Configureren Netwerkdiagram Configuraties Site A configureren Site B configureren Site B configureren VM-implementatie voor HX-getuige Stretch Cluster maken Verifiëren Creatie van Datastore

Inleiding

Een Hyperflex gestretched cluster is één cluster met geografisch gedistribueerde knooppunten. Beide zijden van de cluster fungeren als primaire schakel voor bepaalde VM's van gebruikers. De gegevens voor deze VM's worden tegelijkertijd op de andere site herhaald. Stretched clusters stellen je in staat om toegang te krijgen tot het hele cluster, zelfs als één van de sites volledig naar beneden zou gaan. Meestal zijn deze sites verbonden met een link met een lage latentie, een speciale hoge snelheid.

HyperFlex Stretched Cluster stelt u in staat om een actieve oplossing voor rampenvermijding te implementeren voor bedrijfskritieke werklasten die een hoge uptime (bijna nulhersteltijd doelstelling) vereisen en geen gegevensverlies (doelstelling nul herstelpunt).

Voorwaarden

Vereisten

- Alle knooppunten in het cluster moeten dezelfde M5-modellen (All HX220 M5) of (HX 240 M5) hebben
- Alleen M5-knooppunt wordt ondersteund in subclusters
- Stretch-clusters worden alleen ondersteund op ESXi HX-platforms
- Elke site moet minimaal 2 knooppunten hebben
- ALLE VLAN's die op beide clusters worden gebruikt, moeten SAME zijn
- Stretch-clusterconfiguratie vereist een getuige VM
- Stretch-clusters hebben hetzelfde aantal IP-adressen nodig dat nodig is voor een cluster met

zes knooppunten

- Slechts één exemplaar van vCenter wordt gebruikt voor een stretch cluster
- vCenter met DRS en HA is vereist om het stretch cluster goed te laten werken

Gebruikte componenten

- HX-installatieprogramma
- Cisco HX M5-servers
- VMWare vCenter
- Cisco UCS
- VMWare ESXi

Overige vereisten

- controlelijst voor installatie
- Witness implementeren
- Wachtwoord voor getuigen wijzigen

Configureren

Netwerkdiagram



Configuraties

Alle configuratie voor een stretch cluster wordt uitgevoerd vanaf één HX-installateur. De werkstroom voor stretch cluster installeert stappen zoals hieronder wordt getoond:



Site A configureren

Stap 1. Meld u aan bij het toegewezen HX-installatieprogramma om de clusterconfiguratie te starten. Als het installatieprogramma de vorige installatiestatus nog te zien is klik op het wiel in de balk boven en selecteer Start Over om opnieuw te installeren. In **Selecteer een werkstroom** —> **Cluster maken** —>(selecteer) **Stretch Cluster**.

.ılı.ılı. cısco	HyperFlex Installer	0		Ø ~
	Workflow			
Select	a Workflow			
		*		
	Create Cluster Expand Cluster Standard Cluster Edge Cluster Stretch Cluster Stretch Cluster			
Advan	ced Option 🛛 🔒 I know what I'm doing, let me customize my workflow			

Stap 2. In de configuratie van de site dient u de UCSM-referenties en DC in de Site-naam in. Klik vervolgens op Doorgaan.

HyperFlex Installer			0				ø ~
Credentials		Hyper	rvisor Config	uration			
To setup stretch cluster you have to Pownload and deploy the Witness 1 the stretch cluster. Run the "Create Stretch Cluster" wo Configure Site Create Stretch Cluster Create Stretch Cluster UCS Manager Credentials for thi UCS Manager Host Name UCS Manager FQDN or IP address UCS Manager IDC1	Server Selection Server Server Selection Server Selection Server Selection Server Selection	the IP address of the Witness VM when you create red. Password	Con	Figuration configu (brag and dro prag and dro ration files I	p here or 2	4
	HyperFlex Installer Credentials To setup stretch cluster you have to • Run the "Configure Site" workflow o • Download and deploy the Witness' the stretch cluster. • Run the "Create Stretch Cluster" workflow o Configure Site Create Stretch Cluster workflow o Configure Site Create Stretch Cluster workflow o UCS Manager Credentials for this UCS Manager Host Name UCS Manager FODN or IP address State Name DC1	Image: Provide the server selection Credentials Server Selection To setup stretch cluster you have to 9 Run the "Configure Site" workflow once for each site. Download and deploy the Witness VM, per the user documentation. Provide the stretch cluster. 9 Run the "Create Stretch Cluster" workflow, after both sites have been configure Configure Site Create Stretch Cluster UCS Manager Credentials for this site UCS Manager User Name UCS Manager Host Name UCS Manager User Name UCS Manager FQDN or IP address admin UC1 DC1	Image: Plex Installer Image: Credentials Server Selection UCSM Configuration To setup stretch cluster you have to Image: Credentials for workflow once for each site. Image: Credentials for this sites have been configured. Configure Site Create Stretch Cluster Create Stretch Cluster UCS Manager Credentials for this site Image: USC Manager USer Name Password Image: Credentials Image: USC Manager USer Name Image: Crede Stretch Cluster DC1 Image: Credentials for this site Image: Crede Stretch Cluster	Image: Ploy or IP address	Image: Properties installer Credentials Credentials Configure Site* workflow once for each site. • Sownload and deploy the Witness VM, per the user documentation. Provide the IP address of the Witness VM when you create the stretch cluster* workflow, after both sites have been configured. Configure Site Configure Site UCS Manager Credentials for this site UCS Manager Host Name UCS Manager USM Name UCS Manager USM Name UCS Manager If Club or IP address Configure Site UCS Manager If Club or IP address Configure Site UCS Manager If Club or IP address UCS Manager If Club or IP address	HyperFlex Installer Credentials Credentials To setup stretch duster you have to • uum the "Configure Site" workflow one for each site. Configure site" create Stretch Cluster" UCS Manager Credentials for this site UCS Manager Credentials for this site UCS Manager Credentials for this site UCS Manager User Name Password of admin Select a File Oct	HyperFlex Installer Credentials To setup stretch cluster you have to •••••••••••••••••••••••••••••

Stap 3. Selecteer de bronservers in de serverselectie en klik op Doorgaan

ı cısco	: Нур	erFle>	Installer					0	0	0	ø	\$ ~
		Credent	tials	Se	rver Selection	UCSM	Configuration		Hyper	visor Config	uration	
S	erver Sele Select No Unassociat	ection des for ti red (3)	h is site. Associated (6)			Configure Server Ports	Refresh	Cont	figuratior	1		*
	÷ ک		Server Name	Status	Model	Serial	Actions	UCS M	lanager Host lanager User	Name	d	admin
			Server 7	unassociated	HX220C-M5SX		none	Site Na	ame			DC1
			Server 8	unassociated	HX220C-M5SX		none					
			Server 9	unassociated	HX220C-M5SX		none					
									(Back		Continue	

Stap 4. Onder het gedeelte UCSM-configuratie moet u de VLAN-ID- en VLAN-namen invoeren. In

dit geval hebben we Inband gebruikt voor CIMC. Klik op Doorgaan

	toner			0 0 0	- T
Credentials		Server Selection	UCSM Configuration	Hypervisor Confi	guration
VLAN Configuration				Configuration	
VLAN for Hypervisor and Hyp	serFlex management	VLAN for HyperFlex stor	age traffic	Credentials	
VLAN Name	VLAN ID	VLAN Name	VLAN ID	UCS Manager Host Name	dm-j-fi-2.cisco.com
hx-inband-mgmt-Pod-6	222 3	hx-storage-data-Pod-	3099 3	UCS Manager User Name	admin
				Site Name	DC1
VLAN for VM vMotion		VLAN for VM Network		Admin User name	root
/LAN Name	VLAN ID	VLAN Name	VLAN ID(s)	Server Selection	
hx-vmotion-Pod-6	3093 🔅	vm-network-Pod-6	3094	Server 8	/ HX220C-M55X
				Server 9	/ HX220C-M55X
MAG Deal				Server 7	/ HX220C-M55X
MAC POOL				UCSM Configuration	
MAC Pool Prefix				VLAN Name hx-	inband-mgmt-Pod-6
00:25:85:06				VLAN ID	222
				VLAN Name ha	-storage-data-Pod-6
by ID Dool for Circo Ib	10			VLAN ID	3099
nx iP Pool for Cisco in	nc			VLAN Name	hx-vmotion-Pod-6
P Blocks	Subnet Mask	Gate	way	VLAN ID	3093
	255.255.254.0	•		VLAN Name	vm-network-Pod-6
				VLAN ID(s)	3094
Cisco IMC access man	agement (Out of band or Ir	band)		MAC Pool Prefix	00:25:85:06
	0			IP Blocks	
Out of band 💿	 In band in 			Subnet Mask	255.255.254.0
				Gateway	
AN for inhand Circo	IMC connectivity			VLAN Name ht	-inband-cimc-Pod-6
VDAN for inband cisco	INIC CONTRECTIVITY			VLAN ID	222
/LAN Name	VLAN ID			UCS Server Firmware Version	3.2(3)
	0.0.0	٢		HyperFlex Cluster Name	dmi-ba-dus-6
hx-inband-cimc-Pod-6	222				ungik care
hx-inband-cimc-Pod-6	222			Org Name	HX-POD-6
hx-inband-cimc-Pod-6	222			Org Name ISCSI Storage	HX-POD-6 false
hxt-inband-cimc-Pod-6				Org Name ISCSI Storage VLAN A Name	HX-POD-6 faise x-ext-storage-iscsi-a
hx-inband-cime-Pod-6				Org Name ISCSI Storage VLAN A Name M VLAN B Name M	HK-POD-6 false x-ext-storage-iscsi-a x-ext-storage-iscsi-b
hx-inband-cimc-Pod-6 iSCSI Storage				Org Name ISCSI Storage VLAN A Name h VLAN B Name h	HK-POD-6 false x-ext-storage-iscsi-a x-ext-storage-iscsi-b false
hx-inband-cimc-Pod-6				Org Name ISCSI Storage VLAN A Name M VLAN B Name M PC Storage WW0/N Pool	HX-POD-6 false x-ext-storage-iscsi-a x-ext-storage-iscsi-b false 20:00:00:25:85:
hx-inband-cime-Pod-6 iSCSI Storage FC Storage				Org Name ISCSI Storage VLAN A Name h VLAN B Name h PC Storage WWorki Pool VSAN A Name	HX-POD-6 false x-ext-storage-iscsi-a x-ext-storage-iscsi-b false 20:00:00:25:85: hx-ext-storage-fc-a
hx-inband-cimc-Pod-6 iSCSI Storage FC Storage Advanced JCS Server Firmware Version	HyperFlex Cluste	r Name Org M	lame	Org Name ISCSI Storage VLAN A Name h VLAN B Name h FC Storage WWork Pool VSAN A Name VSAN B Name	HX-POD-6 false x-ext-storage-iscsi-a x-ext-storage-iscsi-b false 20:00:00:25:85: hx-ext-storage-fc-a hx-ext-storage-fc-b
hx-inband-cimc-Pod-6 iSCSI Storage FC Storage Advanced UCS Server Firmware Version 3.2(3) 0	HyperFlex Cluste	r Name Org M 6 HX	lame -POD-6	Org Name ISCSI Storage VLAN & Name h VLAN B Name h PC Storage WWork Pool VSAN & Name VSAN B Name	HX-POD-6 false x-ext-storage-iscsi-b false 20:00:00:25:85: hx-ext-storage-fc-b hx-ext-storage-fc-b

Stap 5. In het gedeelte **Hypersupervisor Configuration** verstrekt u alle gevraagde informatie. Klik vervolgens op **Configure Site** om de configuratie van de site te starten.

HyperFlex In	staller					0 0		۲	۵
Credentials		Server Se	lection		UCSM Configuration	н	ypervisor Confij	guration	
VLAN Configuration						Configurat	ion		*
VLAN for Hypervisor and Hy	perFlex management		VLAN for HyperFlex	storage traf	ic	Credentials			
VLAN Name	VLAN ID		VLAN Name		VLAN ID	UCS Manager I	iost Name (
hx-inband-mgmt-Pod-6	222	٢	hx-storage-data-P	Pod-6	3099 ©	UCS Manager I	loer Name		admin
						Site Name			DC1
VLAN for VM vMotion			VLAN for VM Netwo	vrk		Admin User na	me		root
VLAN Name	VLAN ID		VLAN Name	/ F	VLAN ID(s)	former folger			- out
hx-vmotion-Pod-6	3093	0	vm-network-Pod-	6	3094	Server Select	on		
						Server 8		/ HX220	C-MSSX
						Server 9		/ HX220	C-M55X
MAC Pool						Server 7		/ HX220	C-MSSX
MAC Pool Prefix						UCSM Config	aration		
00.05.05.06						VLAN Name	hos-	inband-mgm	t-Pod-6
00.25:85:06						VLAN ID			222
						VLAN Name	ha	-storage-data	a-Pod-6
'hx' IP Pool for Cisco I	MC					VLAN ID			3099
						VLAN Name		hx-vmotion	n-Pod-6
IP Blocks	Subnet	Mask	0	Gateway		VLAN ID			3093
	255.2	255.254.0		1		VLAN Name		vm-network	k-Pod-6
						VLAN ID(s)			3094
Cisco IMC access mar	agement (Out of han	d or Inband)				MAC Pool Prefs	к	00:2	5:85:06
cisco inic access mai	lagement (out of bain	o or moand)				IP Blocks			
Out of band 💿	In band ()					Subnet Mask		255.25	5.254.0
						Gateway			
						VLAN Name	hu	-inband-cim	c-Pod-6
VLAN for inband Cisc	o IMC connectivity					VLAN ID			222
VLAN Name	VLAN ID					UCS Server Fire	nware Version		3.2(3)
hx-inband-cimc-Pod-6	222		٢			HyperFlex Clus	ter Name	dm-j-h	x-dus-6
						Org Name		HX	POD-6
						iSCSI Storage			false
> iSCSI Storage						VLAN A Name	1	x-ext-storage	e-iscsi-a
						VLAN B Name	IT	x-ext-storage	iscsi-b
> FC Storage						FC Storage			false
						WWXN Pool		20:00:00	25:85:
						VSAN A Name		hx-ext-store	age-fc-a
Advanced						VSAN R Name		hx-ext-stora	medele
Advanced						a service to a second the			
Advanced UCS Server Firmware Version	HyperFi	ex Cluster Name		Org Name					Sere o

Stap 6. Controleer of de Site A Hypervisors Configuration geslaagd is.

սիսիս	HyperElev	Installer
CISCO	hypernex	mstaner



Site B configureren

Stap 1. Klik op het **wiel** en selecteer **Site** configureren om de **Site B** configuratie te starten zoals hieronder wordt getoond.

 cisco	HyperFlex Installer				0			0	¢ ~
			Progress				Configur	re Site	
									_
-					Conf	iguration	Create S	tretch Clus	ter
0-	\odot	\odot	\sim	(>		0	Log Out	(root)	
Start	Config Installer	Validations	UCSM Configuration	Hypervisor Configuration	Crede	ntials			

Stap 2. In de werkstroomgegevens van de **Configure Site** dient u de **UCSM**-referenties en Target **DC** in de Site Name in te voeren. Klik vervolgens op **Doorgaan**.

ı. cısco	HyperFlex Installer			0			0	\$ ~
	Credentials	Server Selection	UCSM Configuration		Нуре	rvisor Config	guration	
(i) •	To setup stretch cluster you have to • Run the "Configure Site" workflow on • Download and deploy the Witness VM the stretch cluster. • Run the "Create Stretch Cluster" work Configure Site Create UCS Manager Credentials for this	ice for each site. A, per the user documentation. Provide the II (flow, after both sites have been configured. e Stretch Cluster site	P address of the Witness VM when you create	Cont	figuratio	n		*
	UCS Manager Host Name	UCS Manager User Name	Password					Ì
		admin	••••••					
	Site Name							
	DC2							

Stap 3. Selecteer de bronservers in de serverselectie en klik op Doorgaan

ului cisc	1- 0	HyperF	lex Installer					0			ø	\$ ~
	Credentials			2	Server Selection	UCSN	A Configuration		Нуре	rvisor Con	figuration	
	Server	Selection	n			Configure Server Ports	Refresh	Co	nfiguratio	n		4
L '	Sele Unas	sociated (9	or this site.) Associated (0)					Cre	dentials			
	Server Name		Server Name	Status	Model	Serial Actions		UCS	Manager Hos	t Name	dm-j-fi-3.ci	sco.com
		©D	Server 1	unassociated	HX220C-M5SX		none	UCS	Manager Use Name	r Name		admin DC2
		0	Server 2	unassociated	HX220C-M55X		none	Sen	ver Selection			
		0	Server 3	unassociated	HX220C-M5SX	_	none	Serv	er 1 er 2		/ HX220	IC-M5SX
		0	Server 4	unassociated	HX220C-M5SX		none	Serv	er 3		/ HX220	C-M5SX
	\cap	())	Server 5	unassociated	HX220C-M5SX		none					

Stap 4. Onder het gedeelte **UCSM-configuratie** moet u de **VLAN-ID**- en **VLAN-namen** invoeren. In dit geval hebben we **Inband** gebruikt voor CIMC. Klik op **Doorgaan**

dudu HyperFlex Installer			0 0	0 0	۵ -
Credentials	Server Selection	UCSM Configuration	Нуре	rvisor Configuration	
VLAN Configuration VLAN for Hypervisor and HyperFlex manag VLAN Name VLAN ID hx-inband-mgmt 222	pement VLAN for HyperFlex VLAN Name © hx-storage-data	c storage traffic VLAN ID 3099	Configuration Credentials UCS Manager Host UCS Manager User	n Name a	+ admin
VLAN for VM vMotion VLAN Name VLAN ID hx-vmotion 3093	VLAN for VM Netwo VLAN Name vm-network	VLAN ID(s) 3094	Site Name Server Selection Server 1 Server 2	/ HK220C	DC2 MSSX MSSX
MAC Pool MAC Pool Prefix O0:25:85: 'hx' IP Pool for Cisco IMC IP Blocks	Subnet Mask	Gateway	Server 3	/ HX220C	M55X
Cisco IMC access management (C	255.255.254.0 Dut of band or Inband) In band ©				
VLAN for inband Cisco IMC conne VLAN Name hx-inband-cimc-Pod-7	VLAN ID				
> iSCSI Storage					
> FC Storage					
Advanced UCS Server Firmware Version	HyperFlex Cluster Name	Org Name			
3.2(3h) 🔹 🕤	HyperFlex cluster	HX-POD-7	< Back	Continue	

Stap 5. In het gedeelte **Hypersupervisor Configuration** verstrekt u alle gevraagde informatie. Klik vervolgens op **Configure Site** om de configuratie van de site te starten.

sco HyperFlex Installer			0 0		۵
Credentials	Server Selection	UCSM Configuration	Hyperv	isor Configuration	
			Configuration		
Configure common Hypervisor Setti	ngs		Configuration		~
Subnet Mask	Gateway	DNS Server(s)	Credentials		
255.255.254.0			UCS Manager Host N	iame 🍋	-
			UCS Manager User N	lame adm	nin
			Site Name	D	C2
Hypervisor Settings			Admin User name	ro	oot
Make IP Addresses and Hostnames Sequen	tial		Server Selection		
			Server 1	/ HX220C-M5	5SX
4t	Static IP Address	Hostname	Server 2	/ HX220C-M5	5SX
			Server 3	/ HX220C-M5	5SX
Server 1		dm-j-hx-21	UCSM Configuration	n	
			VLAN Name	hx-inband-mgr	şmt
Server 2		dm-j-hx-22	VLAN ID	2	222
			VLAN Name	hx-storage-da	ata
Server 3		dm-j-hx-23	VLAN ID	30	099
			VLAN Name	hx-vmoti	ion
			VLAN ID	30	093
Hypenvisor Credentials			VLAN Name	vm-netwo	ork
Typervisor credentials			VLAN ID(s)	30	094
Admin User name	Hypervisor Password		MAC Pool Prefix	00:25:B5:	:07
root			IP Blocks		-
			Subnet Mask	255.255.254	4.0
			Gateway		
			VLAN Name	hx-inband-cimc-Pod	d-7
			VLAN ID	2	222
			UCS Server Firmware	Version 3.2(3	3h)
			< Back	Configure Site	

Stap 6. Controleer of de Site B Hypervisors Configuration geslaagd is.

cisco HyperFlex Installer				
			Progress	
Start Config Installer		Validations	UCSM Configuration	Hypervisor Configuration
 Hypervisor Configuration Success 	ssful			
			Hypervisor Configuration	\$
Hypervisor Configuration - Overall	1	Login to UCS API		
Succeeded	1	Configuring static ip on the	specified ESXi servers	
	1	Configuring static ip on a ES	Xi server	
	1	Login to ESXi through SoL w	ith user specified username and password	
	1	Logout from UCS API		
	~	CONFIGURATION COMPLET	ED SUCCESSFULLY	

VM-implementatie voor HX-getuige

- Dit is een **belangrijke** stap voordat we verder gaan. De HX-getuige VM moet operationeel en bereikbaar zijn voor de installatie.
- Een OVA-beeld dient op een ESXi-host te worden geplaatst.
- Controleer de connectiviteit van deze VM en zorg ervoor dat de aanmelding werkt.
- Raadpleeg het onderstaande voor OVA-installatieeigenschappen.

🍞 Deploy OVF Template		? >>
 1 Select template 2 Select name and location 	Customize template Customize the deployment	properties of this software solution.
✓ 3 Select a resource	All properties have valid	values Show next Collapse all
 4 Review details 		5 settings
✓ 5 Select storage	DNS	The domain name servers for this VM (comma separated). Leave blank if DHCP is desired.
✓ 6 Select networks		
7 Customize template	Default Gateway	The default gateway address for this VM. Leave blank if DHCP is desired.
8 Ready to complete		
	NTP	NTP servers for this VM (comma separated) to sync time.
	Network 1 IP Address	The IP address for this interface. Leave blank if DHCP is desired.
	Network 1 Netmask	The netmask or prefix for this interface. Leave blank if DHCP is desired. 255.255.254.0
		Back Next Finish Cancel

Stretch Cluster maken

Stap 1.

- Om te beginnen het stretch cluster te configureren navigeer naar het **stuur** op de installateur en **selecteer Stretch Cluster** maken om de stretch clusterconfiguratie te starten.
- In het aanmeldingsscherm bieden de bron (Site A) en Target (Site B) UCSM en de Sitemaam, UCSM Org naam, vCenter en Hypervisors referenties. Klik op Doorgaan om naar het scherm voor serverselectie te gaan.

cisco HyperFlex Installer				0			ø	۵ -	
Credentials	Server Selection	IP Ad	idresses		Clus	ter Configura	rtion		
To setup stretch cluster you have to Plan the "Configure Site" workf Download and deploy the Wite the stretch cluster. Run the "Create Stretch Cluster Configure Site	low once for each site. ress VM, per the user documentation. Provide the r° workflow, after both sites have been configured Create Stretch Cluster	IP address of the Witness VM v	when you create	Conf	iguratior	1		+	
UCS Manager Credentials for UCS Manager Host Name	User Name	Password	۲						
DC1	HX-POD-6								
UCS Manager Credentials for UCS Manager Host Name	User Name	Password	0						
Site Name DC2	Org Name HX-POD-7				Configu	rag and drop ration files h select a File	ere or		
vCenter Credentials vCenter Server	User Name administrator@vsphere.local	Admin Password	٥						
Hypervisor Credentials Admin User name root The hypervisor on this node uses th	e factory default password								
Hypervisor Password					(Back		Continue		

Stap 2. Zorg ervoor dat alle servers (zowel bron- als doelservers) als geselecteerd zijn. Klik op **Doorgaan**,

	Credentials				Server Selection	IP Ad	ldresses		Cluster Configu	uration
rver S Select Associa	election Nodes for this site	2.				Configure Server Ports	Refresh	Configu Credentia	ration	
¢.	Server Name	Site	 Status 	Model	Serial	Service Profile	Actions	UCS Manag	ger Host Name 1	adı
	Server 8	DC1	ok	HX220C- M5SX		org-root/org-HX-POD-6/Is-rack- unit-8	Actions ~	UCS Manag	ger Host Name 2	
	Server 9	DC1	ok	HX220C-		org-root/org-HX-POD-6/Is-rack-	Actions ~	User Name Site Name		adr
	Server 7	DC1	ok	HX220C-		org-root/org-HX-POD-6/ls-rack-	Actions ~	Org Name	1	HX-PO
	Server 2	DC2	ok	HX220C-		org-root/org-HX-POD-7/ls-rack-	Actions ~	Org Name	2	HX-PO
	Server 3	DC2	ok	HX220C- M55X		org-root/org-HX-POD-7/Is-rack-	Actions ~	vCenter Se User Name	administ	trator@vsphere.lc
	Server 1	DC2	ok	HX220C-	_	org-root/org-HX-POD-7/ls-rack-	Actions ~	Admin Use	r name	r

Stap 3. In het **IP-adresgedeelte** verstrekt u de (openbare routekaart) IP en hun **GEGEVENS** (particuliere) IP. Geef ook het **cluster IP voor zowel beheer als datanetwerken op**. Klik op **Doorgaan**.

ului cisce		н	yperFlex In	staller								0		0	0	¢ ~
			Credentials			Server Se	election				IP Addresses		Clus	ter Configur	ation	
I	P A	ddres	sses									Cont	iguratior	ı		*
	2 N	Vake IF	P Addresses Sequ	uential								Crede	ntials			
												UCS M	anager Host	Name 1		-
					Manage	ment - VLA	AN		(FQI	Data - N or I	VLAN P Address)	User N	lame			admin
							Storage				Storage	UCS M	anager Host	Name 2		-
	11	\$	Name~	Site	Hypervisor	0	Controller	0	Hypervisor	0	Controller	User N	ame			admin
			Sec. 10	0.01								Site Na	ime			DC1
		OD.	Server 9	DC1					192.168		92.168.	Org Na	ime 1		HX	POD-6
			Conver 9	DC1								Site Na	ime			DC2
		٥D	Server 8	DCI					192.168.		92.168.6	Org Na	ime 2		HX	POD-7
		(0))	Server 7	DC1					100.400		00.100.0	VCente	r Server	administr	tor®vrobe	alocal
									192.168.		92.168.	Admin	User name	administri	acorevaprie	root
		(D	Server 3	DC2	_				192 168		92 168 6	Serve	r Selection			
									102.100.		02.1001	Server	2		/ HX2200	-M55X
		OD	Server 2	DC2					192.168.		92.168.	Server	3		/ HX2200	-M5SX
												Server	1		/ HX2200	MSSX
		O	Server 1	DC2					192.168.		92.168.	Server	8		/ HX2200	-M5SX
												Server	9		/ HX2200	-M5SX
												Server	7		/ HX2200	-M55X
					Mana	gement	C	Data								
				Cluster IP Ac	idress 🗾			192.16	8.							
									_							
				Subnet	Mask 255	.255.254.()	255.25	55.255.0							
				Ga	teway											
				Witr	ness IP							-	Back		Continue	

Stap 4. Onder de Cluster Configuration voert u de VM-wachtwoorden, vCenter-configuratie en systeemservices uit. Onder het gedeelte Advanced Network dient u dezelfde beheersystemen en gegevensVLAN's voor beide sites te configureren. Klik vervolgens op Start om de clusterconfiguraties te starten.

Cisco HX Cluster			Configuration 🐟
Cluster Name	Replication Factor		Credentials
dm-j-hx-clus-6	2+2 •		UCS Manager Host Name 1 m
			User Name admin
Controller VM			UCS Manager Host Name 2
Create Admin Password	Confirm Admin Password		User Name admin
•••••			Site Name DC1
			Org Name 1 HX-POD-6
Carton Cartonnalian			Site Name DC2
vCenter Configuration			Org Name 2 HX-POD-7
vCenter Datacenter Name	vCenter Cluster Name		vCenter Server
HX-Stretch	dm-j-hx-clus-6		User Name administrator@vsphere.local
			Admin User name root
System Services			Server Selection
-,			Server 2 / HX220C-M55X
DNS Server(s)	NTP Server(s)	DNS Domain Name	Server 3 / HX220C-M5SX
	.cisco.com	cisco.com	Server 1 / HX220C-M5SX
Time Zone			Server 8 / HX220C-M5SX
(UTC-08:00) Pacific Time	• 0		Server 9 / HX220C-M55X
			Server 7 / HX220C-M5SX
			IP Addresses
Auto Support			Cluster Name dm-j-hxi-clus-6
Auto Support	Send service ticket notifications to		Management Cluster
(Recommended)			Data Cluster
			Management Subnet Mask 255.255.254.0
Advanced Mature datase			Data Subnet Mask 255.255.255.0
Advanced Networking			Management Gateway
Management VLAN Tag - Site 1	Management VLAN Tag - Site 2	Management vSwitch	Witness IP
222 🗘	222 3	vswitch-hx-inband-mgmt	Server 9 (WZP22370075)
Data VLAN Tag - Site 1	Data VLAN Tag - Site 2	Data vSwitch	Management Hypervisor
3099 🔅	3099 0	vswitch-hx-storage-data	Management Storage Controller 9
			Data Hypervisor
Advanced Configuration			Data Storage Controller
Advanced Configuration			Server 3 (WZP22370078)
Jumbo Frames	Disk Partitions	Virtual Desktop (VDI)	
Data Network	 Clean up disk partitions 	 Optimize for VDI only deployment 	K Back Start
-Contor Sinalo Sien On Soniar			

Stap 5. Bevestig dat de clustervorming met succes is voltooid.

Pro	ogress		Summary
0	O		Configuration
Start Config Installer	Deploy Deploy Validation	Create Validation	Cluster Creation Credentials
			UCS Manager Host Name 1
			User Name admin
 Cluster Creation Successful 		View Sum	UCS Manager Host Name 2
			User Name admin
			Site Name DC1
		Cluster Creation	Org Name 1 HX-POD-6
Cluster Creation - Overall	 Preparing Storage Cluster 		Site Name DC2
Succeeded	 Configuring Cluster Resource Manager 		Org Name 2 HX-POD-7
	✓ updateClusterSEDStatus		vCenter Server
			User Name administrator@vsphere.local
192.168.			Admin User name root
In Progress	 Contiguring NIP Services 		Server Selection
			Server 2 / HX220C-M5SX
192.168.	 Configuring NTP Services 		Server 3 / HX220C-M55X
In Progress			Server 1 / HX220C-M55X
			Server 8 / HX220C-M55X
192.168.1	 Configuring NTP Services 		Server 9 / HX220C-M55X
In Progress			Server 7 / HX220C-M55X
192,168,			IP Addresses
In Progress	 Configuring NTP Services 		Cluster Name dm-j-stretch-1
			Management Cluster
192.168.	 Configuring NTP Services 		Data Cluster 192.168.
In Progress			Management Subnet Mask 255.255.254.0
			Data Subnet Mask 255.255.255.0
192.168.1	 Configuring NTP Services 		Management Gateway
In Progress			Witness IP
			Server 9 (WZP22370075)

Verifiëren

Creatie van Datastore

Stap 1. De datastore-creatie op een stretch cluster is gelijk aan de datastore-creatie op een normaal cluster. Het enige verschil is dat het maken van een datastore in een stretch cluster de locatieaffiniteit definieert. In **Hyperflex Connect UI** navigeer naar de **Datastores** en klik op **Datastore maken**

≡	ໍາມາປາ cisco HyperFlex Connect	-stretch-1	Ē	3 💮	0	<u>&</u>
\odot	Dashboard	Datastores	Last refreshed at	: 02/16/2019 2	::37:10 PM 🗧	Э
MON	IITOR	■ Create Datastore				
\bigcirc	Alarms				_	
슜	Events	Name ^ Mount Summary Site Affinity Pairing Status Status	Size	Used	Free	
â	Activity	No records found				
anai Eili	LYZE Performance					
PROT	TECT					
Ċ	Replication					
MAN	AGE					
11	System Information					
•	Datastores					
Ţ	Virtual Machines					
$\widehat{}$	Upgrade					
≻_	Web CLI					

Stap 2. Maak een datastore en selecteer de grootte ervan. Selecteer vervolgens in de **extra stap** onder de optie **Site Affinity** ook een van de twee sites. klik vervolgens op **Datastore maken**

Create Datastore				$\odot \otimes$
Datastore Name				
DS-01				
Size			Block Siz	e
1	ТВ	Ŧ	8K	*
Site Affinity				
Select Site affinity				^
DC2				
DC1				
	Cancel	c	reate Data	istore

Stap 3. Bevestig de status van de nieuw gecreëerde datastore die het als **GEMONTEERD** toont en ook de **locatieaffiniteit** toont.

Datas	tores	ast refreshed at: 02/16/2019 2:41:02 PM 🗧						
🗹 Creat	e Datastore	🖊 Edit 🗸 Mount 🛞	Unmount × Dele			↓ ~	Filter	
	Name ^	Mount Summary	Site Affinity	Pairing Status	Status	Size	Used	Free
	DS-01	MOUNTED	DC1	Unpaired	Normal	1 TB	0 B	1 TB

Showing 1 - 1 of 1