HyperFlex延展群集部署指南

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簡介

Hyperflex擴展群集是帶有地理上分散的節點的單個群集。集群的兩端均充當特定使用者VM的主節 點。這些VM的資料將在其他站點上同步複製。擴展集群使您能夠訪問整個集群,即使其中一個站點 完全關閉。通常,這些站點通過它們之間的低延遲、專用高速鏈路連線。

HyperFlex擴展群集使您可以為需要高正常運行時間(接近零恢復時間目標)且無資料丟失(零恢復點目標)的任務關鍵型工作負載部署主動 — 主動避免災難解決方案。

必要條件

需求

- •群集中的所有節點應屬於相同的M5型號(所有HX220 M5)或(HX 240 M5)
- scretch群集中僅支援M5節點
- 只有ESXi HX平台支援擴展群集
- 每個站點至少應有2個節點
- •兩個群集上使用的所有VLAN必須相同
- 擴展群集配置需要見證虛擬機器
- 延展式集群需要的IP地址數量與六個節點集群所需的IP地址數量相同
- 擴展群集僅使用一個vCenter例項
- 需要具備DRS和HA的vCenter才能使延展式群集正常工作

採用元件

• HX安裝程式

- Cisco HX M5伺服器
- VMWare vCenter
- Cisco UCSM
- VMWare ESXi

其他要求

- 安裝前檢查清單
- <u>部署見證虛擬機器</u>
- 更改見證虛擬機器密碼

設定

網路圖表



組態

拉伸群集的所有配置都將通過單個HX安裝程式完成。拉伸群集安裝步驟的工作流程如下所示:



步驟1.登錄到各自分配的HX安裝程式以啟動群集配置。如果安裝程式仍然顯示以前的安裝狀態,請 按一下上面欄中的滾輪,然後選擇「重新開始」開始全新安裝。在**Select a Workflow** —> **Create Cluster** —>(select)Stretch Cluster中。

| cisco | HyperFlex Installer | 0 | | \$ ~ |
|-------|--|---|--|-------------|
| | Workflow | | | |
| Selec | a Workflow | | | |
| | Create Cluster Standard Cluster Edge Cluster Stretch Cluster | * | | |
| Advar | ced Option 🔒 I know what I'm doing, let me customize my workflow | | | |

步驟2.在配置站點工作流程中,在站點名稱中輸入UCSM憑證和DC。然後按一下「Continue」。

| .ılı.ılı. cısco | HyperFlex Installer | | | 0 | | | | ¤ ~ |
|--------------------|--|--|--|-----|-----------------------------|--------------------------------|-------------|------------|
| | Credentials | Server Selection | UCSM Configuration | | Hypen | visor Configu | uration | |
| () • | To setup stretch cluster you have to Pownload and deploy the Witness V the stretch cluster. Run the "Create Stretch Cluster" work Configure Site UCS Manager Credentials for this UCS Manager Host Name UCS Manager FQDN or IP address Site Name DC1 | Acriver Selection Ince for each site. M, per the user documentation. Provide the rkflow, after both sites have been configured te Stretch Cluster S Site UCS Manager User Name admin | IP address of the Witness VM when you create A. Password | Con | Figuration Di configu | rag and drop ration files h |) ere or | |
| | | | | | | | | |

步驟3.在伺服器選擇中,選擇源伺服器並點選Continue

| .1 1.1 CISC |). 0 | HyperFl | ex Installer | | | | | 0 | | | Ø | \$ ~ |
|----------------|------------|--------------|--------------------------------|--------------|-----------------|------------------------|---------------|------|------------------------------|---------------|----------|-------------|
| | | Crec | lentials | S | erver Selection | UCSM | Configuration | | Нуре | rvisor Config | guration | |
| | Serve | r Selectior | ı | | | Configure Server Ports | Refresh | Co | nfiguratio | ı | | * |
| | Sel Una | ect Nodes fo | r this site. Associated (6) | | | | | Cree | dentials | | | |
| | | -¢: | Server Name | Status | Model | Serial | Actions | UCS | Manager Host Manager User | Name Name | d | admin |
| | | O | Server 7 | unassociated | HX220C-M5SX | | none | Site | Name | | | DC1 |
| | | OD | Server 8 | unassociated | HX220C-M55X | | none | | | | | |
| | | O | Server 9 | unassociated | HX220C-M5SX | | none | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | < Back | | Continue | |

步驟4.在UCSM配置部分下,輸入VLAN ID和VLAN名稱。在本例中,我們將Inband用於CIMC。按 一下「Continue」

| B HyperFlex In: | staller | | | | 0 0 | | 0 | ۵ |
|---|--------------------------------|------------------|---------------------|--------------------|---------------------|-----------------|---------------|----------|
| Credentials | | Server Selection | | UCSM Configuration | Hyper | visor Configura | ition | |
| VLAN Configuration | | | | | Configuration | 1 | | + |
| VLAN for Hypervisor and Hy | perFlex management | VLAN for | HyperFlex storage (| raffic | Credentials | | | |
| VLAN Name | VLAN ID | VLAN Nam | se | VLAN ID | UCS Manager Host | Name de | n-j-fi-2.cise | co.com |
| hx-inband-mgmt-Pod-6 | 222 | 3 hx-stor | age-data-Pod-6 | 3099 3 | UCS Manager User | Name | | admin |
| | | | | | Site Name | | | DC1 |
| VLAN for VM vMotion | | VLAN for | VM Network | | Admin User name | | | root |
| VLAN Name | VLAN ID | VLAN Nam | se . | VLAN ID(s) | Server Selection | | | |
| hx-vmotion-Pod-6 | 3093 | © vm-net | work-Pod-6 | 3094 | Server 8 | | / HX220C | MSSX |
| | | | | | Server 9 | | / HX220C | MSSX |
| | | | | | Server 7 | | / HX220C | -M55X |
| MAC Pool | | | | | UCSM Configurat | ion | | |
| MAC Pool Prefix | | | | | VLAN Name | hx-inba | ind-memt | -Pod-6 |
| 00:25:85:06 | | | | | VLAN ID | | | 222 |
| | | | | | VLAN Name | hx-sto | rage-data | Pod-6 |
| hul ID Deal for Circo I | | | | | VLAN ID | | | 3099 |
| nx IP Pool for Cisco I | MC | | | | VLAN Name | h | x-vmotion | Pod-6 |
| P Blocks | Subnet N | lask | Gateway | | VLAN ID | | | 3093 |
| | 255.2 | 55.254.0 | _ | | VLAN Name | ve | n-network | Pod-6 |
| | | | | | VLAN ID(s) | | | 3094 |
| Cisco IMC access man | agement (Out of bao | d or loband) | | | MAC Pool Prefix | | 00:25 | 185:06 |
| cisco inte access mar | agement (out of built | or moundy | | | IP Blocks | | | |
| Out of band 💿 | In band () | | | | Subnet Mask | | 255.255 | 5.254.0 |
| | | | | | Gateway | | | |
| AN for inband Circo | IMC connectivity | | | | VLAN Name | hx-int | and-cimc | -Pod-6 |
| VLAN for inband cisco | IMC connectivity | | | | VLAN ID | | | 222 |
| /LAN Name | VLAN ID | | | | UCS Server Firmwa | re Version | | 3.2(3) |
| hx-inband-cimc-Pod-6 | 222 | | ٢ | | HyperFlex Cluster N | lame | dm-j-hx | -clus-6 |
| | | | | | Org Name | | HX | POD-6 |
| iscsi storage | | | | | ISCSI Storage | | | false |
| iscal storage | | | | | VLAN A Name | hx-ex | it-storage | iscsi-a |
| | | | | | VLAN B Name | hx-ex | d-storage | -iscsi-b |
| PPC Storage | | | | | FC Storage | | | false |
| | | | | | WWXN Pool | | 20:00:00 | 25:85 |
| | | | | | VSAN A Name | Por | -ext-stora | ge-fc-a |
| Advanced | | | | | | | | |
| Advanced UCS Server Firmware Version | HyperFle | x Cluster Name | Org Name | | VSAN B Name | hx | ext-stora | ge-fc-b |

步驟5.在「虛擬機器監**控程式配置**」部分提供所有請求的資訊。然後按一下Configure Site以開始站 點配置。

| HyperFlex In: | staller | | | 0 0 0 | ° (| Ö |
|-----------------------------|------------------------------|-------------------------|--------------------|---------------------------|----------------|------------|
| Credentials | | Server Selection | UCSM Configuration | Hypervisor C | onfiguration | |
| VLAN Configuration | | | | Configuration | | |
| VLAN for Hypervisor and Hy | perFlex management | VLAN for HyperFlex stor | rage traffic | Credentials | | |
| VLAN Name | VLAN ID | VLAN Name | VLAN ID | UCS Manager Host Name | _ | |
| hx-inband-mgmt-Pod-6 | 222 3 | hx-storage-data-Pod- | 6 3099 3 | UCS Manager User Name | | admir |
| | | | | Site Name | | DC |
| VLAN for VM vMotion | | VLAN for VM Network | | Admin User name | | roc |
| VLAN Name | VLAN ID | VLAN Name | VLAN ID(s) | Server Selection | | |
| hx-vmotion-Pod-6 | 3093 © | vm-network-Pod-6 | 3094 | Server Selection | (10/200 | e ure |
| | | | | Server 8 | 7 HX220 | IC-MSS |
| | | | | Server 9 | 7 H0(220 | IC-M55 |
| MAC Pool | | | | Server 7 | / HX220 | C-M5S |
| MAC Pool Prefix | | | | UCSM Configuration | | |
| 00:25:85:06 | | | | VLAN Name | hx-inband-mgm | nt-Pod- |
| 001200000 | | | | VLAN ID | | 22 |
| | | | | VLAN Name | hx-storage-dat | la-Pod- |
| hx' IP Pool for Cisco I | MC | | | VLAN ID | | 309 |
| 0 Blacks | Colored Hards | 6.00 | | VLAN Name | hx-vmotio | in-Pod- |
| P BIOCKS | Subnet Mask | Gate | way | VLAN ID | | 309 |
| | 255.255.25 | 4.0 | | VLAN Name | vm-networ | rk-Pod- |
| | | | | VLAN ID(s) | | 309 |
| Cisco IMC access mar | agement (Out of band or | Inband) | | MAC Pool Prefix | 00:2 | 25:85:0 |
| | • | | | IP Blocks | _ | |
| Out of band 💿 | In band | | | Subnet Mask | 255.25 | 55.254 |
| | | | | Gateway | | |
| | | | | VLAN Name | hx-inband-cim | nc-Pod- |
| VLAN for inband Cisco | IMC connectivity | | | VLAN ID | | 22 |
| VLAN Name | VLAN ID | | | UCS Server Firmware Versi | ion | 3.2(3) |
| hx-inband-cimc-Pod-6 | 222 | ٢ | | HyperFlex Cluster Name | dm-j-h | tx-clus- |
| | | | | Org Name | ю | X-POD- |
| | | | | ISCSI Storage | | false |
| iSCSI Storage | | | | VLAN A Name | hx-ext-storag | ye-iscsi-i |
| | | | | VLAN B Name | hx-ext-storage | ye-iscsi-l |
| FC Storage | | | | FC Storage | | false |
| | | | | WWMN Pool | 20:00:0 | 0:25:85 |
| Advanced | | | | VSAN A Name | Por-ext-stor | age-fc- |
| | | | | VSAN B Name | hx-ext-stor | age-fc-l |
| | HyperFlex Clur | ster Name Org I | Name | | | - |
| UCS Server Firmware Version | - A | | | | | |

步驟6.確認站點A虛擬機器監控程式配置成功。

disco HyperFlex Installer



配置站點B

步驟1.按一下wheel,然後選擇Configure Site以開始Site B配置,如下所示。

| cisco | HyperFlex Installer | | | | 0 | | | 0 | \$ ~ |
|-------------|---------------------|-------------|---------------|---------------|-------|----------|----------|-------------|-------------|
| | | | Progress | | | | Configur | e Site | |
| | | | | | Confi | guration | Create S | tretch Clus | ter |
| O- Start | Config | Validations | UCSM | Hypervisor | com | Baracion | Log Out | (root) | |
| | Installer | | Configuration | Configuration | Crede | ntials | | | |

步驟2.在Configure Site</mark>工作流程中,在Site Name中輸入Target UCSM credentials和Target DC。 然後按一下「Continue」。

| lili. cisco | HyperFlex Installer | | | 0 | | | 0 | \$ ~ |
|----------------|---|--|--|-----|------------|--------------|---------|-------------|
| | Credentials | Server Selection | UCSM Configuration | | Hyper | visor Config | uration | |
| (i) • | To setup stretch cluster you have to • Run the "Configure Site" workflow v • Download and deploy the Witness the stretch cluster. • Run the "Create Stretch Cluster" wo Configure Site Creedentials for the UCS Manager Credentials for the | once for each site. VM, per the user documentation. Provide the If orkflow, after both sites have been configured. rate Stretch Cluster | ⁹ address of the Witness VM when you create | Con | figuratior | 1 | | * |
| | UCS Manager Host Name | UCS Manager User Name | Password | | | | | |
| | | admin | •••••• | | | | | |
| | Site Name | | | | | | | |
| | DC2 | | | | | | | |
| | | | | | | | | |

步驟3.在伺服器選擇中,選擇源伺服器並點選Continue

| ာါာ cisc | 0 | HyperF | lex Installer | | | | | 0 | | | ø | \$ ~ |
|-------------|--------------|--------------|-----------------------------------|--------------|------------------|------------------------|-----------------|------|----------------------|-------------|--------------|--------------|
| | | Crea | dentials | 2 | Server Selection | UCSM | A Configuration | | Нуре | rvisor Conf | iguration | |
| : | Server | Selection | n | | | Configure Server Ports | Refresh | Cor | nfiguratio | ı | | * |
| 1 | Sele Unas | ect Nodes fo | or this site.) Associated (0) | | | | | Cree | lentials | | | |
| | | ÷ | Server Name | Status | Model | Serial | Actions | UCS | Manager Hosi | Name | dm-j-fi-3.ci | sco.com |
| | | 0 | Server 1 | unassociated | HX220C-M5SX | | none | UCS | Manager User Name | Name | | admin DC2 |
| | | od | Server 2 | unassociated | HX220C-M55X | | none | Serv | er Selection | | | |
| | | OD | Server 3 | unassociated | HX220C-M5SX | | none | Serv | er 1 | | / HX220 | JC-M5SX |
| | | OD | Server 4 | unassociated | HX220C-M5SX | | none | Serv | er 2 er 3 | | / HX220 | C-M5SX |
| | | ()) | Server 5 | unassociated | HX220C-M5SX | | none | | | | | |

步驟4.在UCSM配置部分下,輸入VLAN ⅠD和VLAN名稱。在本例中,我們將Inband用於CIMC。按 一下「Continue」

| disels HyperFlex Installer | | | 0 0 | 0 | o o - |
|---|--|------------------------------------|--|----------------------|--|
| Credentials | Server Selection | UCSM Configuration | Hyp | ervisor Configuratio | on |
| VLAN Configuration VLAN for Hypervisor and HyperFlex manage VLAN Name VLAN ID hx-inband-mgmt 222 | ement VLAN for HyperFlex s VLAN Name 0 hx-storage-data | storage traffic VLAN ID 3099 | Configuration Credentials UCS Manager Hos UCS Manager Use | n t Name | +. admin |
| VLAN for VM vMotion VLAN Name VLAN ID hx-vmotion 3093 MAC Pool | VLAN for VM Network | k VLAN ID(s) 3094 | Site Name Server Selection Server 1 Server 2 Server 3 | , , , | DC2 HX220C-M55X HX220C-M55X HX220C-M55X |
| 00:25:85: 'hx' IP Pool for Cisco IMC IP Blocks | Subnet Mask G 255.255.254.0 | ateway | | | |
| Cisco IMC access management (O | ut of band or Inband) In band 🛇 | | | | |
| VLAN for inband Cisco IMC conne VLAN Name hx-inband-cimc-Pod-7 > ISCSI Storage | vlan id 222 | | | | |
| > FC Storage Advanced UCS Server Firmware Version | HyperFlex Cluster Name O | irg Name | | | |
| 3.2(3h) • 0 | HyperFlex cluster | HX-POD-7 | < Back | Con | tinue |

步驟5.在「虛擬機器監**控程式配置**」部分提供所有請求的資訊。然後按一下**Configure Site**以開始站 點配置。

| HyperFlex In | staller | | | 06 | |
|---|--|------------------|--------------------|---------------------|-------------------------|
| Credentials | | Server Selection | UCSM Configuration | Hypervi | sor Configuration |
| | | | | | |
| Configure common H | lypervisor Settings | | | Configuration | |
| Subnet Mask | Gateway | | DNS Server(s) | Credentials | |
| 255.255.254.0 | | | | UCS Manager Host N | ame enjitetetene |
| | | | | UCS Manager User N | ame admin |
| | | | | Site Name | DC2 |
| Hypervisor Settings | | | | Admin User name | root |
| Make IP Addresses and | Hostnames Sequential | | | Server Selection | |
| | | | | Server 1 | / HX220C-M55X |
| 4t • Name ^ | Serial S | tatic IP Address | Hostname | Server 2 | / HX220C-M5SX |
| Server 1 | | | | Server 3 | / HX220C-M5SX |
| - OD Server I | | | dm-j-hx-21 | UCSM Configuration | n |
| = Server 2 | | | | VLAN Name | hx-inband-mgmt |
| - Of Burrers | | | dm-j-nx-22 | VLAN ID | 222 |
| Server 3 | | | | VLAN Name | hx-storage-data |
| - OD Server 5 | | | dm-j-hx-23 | VLAN ID | 3099 |
| | | | | VLAN Name | hx-vmotion |
| | | | | VLAN ID | 3093 |
| Hypervisor Credentia | ls | | | VLAN Name | vm-network |
| | the sector of th | | | VLAN ID(s) | 3094 |
| Admin User name | Hypervisor P | assword | | MAC Pool Prefix | 00:25:85:07 |
| root | | 0 | | Subnet Mack | 255 255 254 0 |
| | | | | Gateway | 233.233.234.0 |
| | | | | VLAN Name | hx-inband-cimc-Pod-7 |
| | | | | VLAN ID | 222 |
| | | | | UCS Server Firmware | Version 3.2(3h) |
| | | | | | |
| | | | | < Back | Configure Site |

步驟6.確認站點B虛擬機器監控程式配置成功。

| | HyperFlex | Installer |
|-------|-----------|-----------|
| CISCO | | |

| | | Progress |
|------------------------------------|-------|---|
| Start Config Installer | | Validations UCSM Hypervisor Configuration Configuration |
| ✓ Hypervisor Configuration Succes | 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 ESXi server |
| | ~ | Login to ESXi through SoL with user specified username and password |
| | 1 | Logout from UCS API |
| | 1 | CONFIGURATION COMPLETED SUCCESSFULLY |

HX見證虛擬機器部署

- •這是進一步進**行之**前的重要步驟。HX見證VM需要啟動並運行且可訪問,安裝才能成功。
- 需要在ESXi主機上部署OVA映像。
- •請測試到此VM的連線,並確保登入正常工作。
- •請參閱下面的OVA安裝屬性。

| 🎓 Deploy OVF Template | | (?) >> |
|---|--|--|
| 1 Select template 2 Select name and location | Customize template Customize the deployment p | 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 |

建立延伸群集

步驟1.

- •要開始配置拉伸群集,請導航到安裝程式上的Wheel並選擇建立拉伸群集以開始拉伸群集配置
- 在憑據螢幕中,提供源(站點A)和目標(站點B)UCSM及其憑據、站點名稱、UCSM組織名 稱、vCenter和Hypervisor憑據。按一下Continue以進入Server Selection螢幕。

| alaala cisco | HyperFlex Installer | | | | 0 | | | 0 | ø - |
|-----------------|--|--|--------------------------------|----------------|------|------------|---|--------------|-----|
| | Credentials | Server Selection | IP Add | resses | | Clus | ster Configur | ation | |
| (i | To setup stretch duster you have to • Run the "Configure Site" workflow • Download and deploy the Witness the stretch cluster. • Run the "Create Stretch Cluster" we Configure Site | once for each site. VM, per the user documentation. Provide the orkflow, after both sites have been configured rate Stretch Cluster | IP address of the Witness VM w | hen you create | Conf | figuratior | 1 | | 4 |
| | UCS Manager Credentials for Sit | User Name | Password | 0 | | | | | |
| | | autoriti | | - | | | | | |
| | Site Name DC1 | Org Name | | | | | | | |
| | UCS Manager Credentials for Sit UCS Manager Host Name Site Name DC2 VCenter Credentials vCenter Server | use 2 User Name admin Org Name HX-POD-7 User Name administrator@vsphere.local | Password | 0 | | configu | brag and drop aration files h Select a File | P sere or | |
| | Hypervisor Credentials Admin User name root The hypervisor on this node uses the fac Hypervisor Password | tory default password | | | | (Back | | Continue | |

步驟2. 確保所有伺服器(源伺服器和目標伺服器)均顯示為選定狀態。然後按一下繼續,

| | | Credentials | | | | Server Selection | IP Ad | ldresses | | Cluster Configur | ation |
|------------------------------|----------------|----------------------------------|------|--------|-----------------|------------------|--|------------|-----------------------------|------------------|------------------|
| erver S Select Associa | Selec t Nod | tion es for this site. (6) | | | | | Configure Server Ports | Refresh | Configura Credentials | tion | |
| ✓ ⊀ | ģ: | Server Name | Site | Status | Model | Serial | Service Profile | Actions | UCS Manager User Name | Host Name 1 | adm |
| v (| | Server 8 | DC1 | ok | HX220C- M5SX | | org-root/org-HX-POD-6/ls-rack- unit-8 | Actions ~ | UCS Manager | Host Name 2 | |
| 2 @ | | Server 9 | DC1 | ok | HX220C- M5SX | | org-root/org-HX-POD-6/ls-rack- unit-9 | Actions ~ | User Name Site Name | | adm |
| v (| | Server 7 | DC1 | ok | HX220C- M5SX | | org-root/org-HX-POD-6/ls-rack- unit-7 | Actions ~ | Org Name 1 Site Name | | HX-POD |
| 2 @ | | Server 2 | DC2 | ok | HX220C- M5SX | | org-root/org-HX-POD-7/ls-rack- unit-2 | Actions ~ | Org Name 2 vCenter Serve | r | HX-POD |
| 2 0 | | Server 3 | DC2 | ok | HX220C- M5SX | | org-root/org-HX-POD-7/ls-rack- unit-3 | Actions $$ | User Name | administr | ator@vsphere.loc |
| v (| | Server 1 | DC2 | ok | HX220C- M55X | _ | org-root/org-HX-POD-7/ls-rack- unit-1 | Actions ~ | Admin Oser ha | ine | 10 |

步驟3.在「IP地址」部分中,提供Hypervisor和Storage controller mgmt(公共可路由)IP以及它們 的DATA**(專用非可路由)IP。**此外,還要為**管理和資料網路提供集群IP**。按一下「Continue」(繼 續)。

| cisco | > | н | yperFlex Ir | nstaller | | | | | | | | 0 | | | 0 | \$ ~ |
|-------|-------|---------|-----------------|--------------|---------|----------|---------------|-------|-------------|-------------------|--------------|---------|---------------|---------------|------------|-------------|
| | | | Credentials | | | Ser | ver Selection | | | | IP Addresses | | Clus | ter Configura | ition | |
| | | | | | | | | | | | | | | | | |
| 1 | P A | ddre | sses | | | | | | | | | Conf | iguration | 1 | | * |
| | 2 N | Make IF | P Addresses Seq | uential | | | | | | | | Crede | ntials | | | |
| | | | | | | | | | | | | UCS M | anager Host | Name 1 | | - |
| | | | | | Mar | nagement | - VLAN | | (FQ | Data - DN or I | P Address) | User N | ame | | | admin |
| | 14 | | Manager | Site | likense | icar (| Storag | e | honorises | | Storage | UCS M | anager Host / | Name 2 | | - |
| | +1 | \$ | Name* | Site | нурегу | nsor (| Contro | oller | Hypervisor | 0 | Controller | User N | ame | | | admin |
| | | ഞ | Server 9 | DC1 | | _ | | | 400.400 | | 00400 | Site Na | me | | | DC1 |
| | | | berrer 5 | | | | | | 192.168 | - | 92.168. | Org Na | me 1 | | HX- | POD-6 |
| | | (D) | Server 8 | DC1 | | | | | 102 168 | | 02 168 (| Site Na | me | | HY | DC2 |
| | | | | | _ | | _ | | 152.100. | | 52.100.X | vCente | r Server | | na- | -00-7 |
| | | (D | Server 7 | DC1 | | | | | 192.168. | | 92.168. | User N | ame | administra | tor@vspher | e.local |
| | | | | | | | | | | | | Admin | User name | | | root |
| | | OD | Server 3 | DC2 | | | | | 192.168. | | 92.168. | Serve | Selection | | | |
| | | | | | | | | | | | | 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 | | 92.168.6 | Server | 8 | | / HX2200 | -M5SX |
| | | | | | | | | | | | | Server | 9 | | / HX2200 | MSSX |
| | | | | | | | | Data | | | | Server | 7 | | / HX2200 | -MSSX |
| | | | | | | lanageme | nc | Data | | | | | | | | |
| | | | | Cluster IP / | ddress | | - | 192 | .168.(| | | | | | | |
| | | | | Subn | t Mask | 255.255 | 254.0 | 255 | 5.255.255.0 | | | | | | | |
| | | | | G | ateway | | - | | | | | | | | | |
| | | | | Wi | ness IP | | _ |] | | | | | Back | | Continue | |

步驟4.在Cluster Configuration下,輸入Controller VM密碼、vCenter configuration details和system services details。在Advanced Networking一節中,為兩個站點配置相同的Management和Data VLAN。然後按一下Start開始群集配置。

| Cisco HX Cluster | | | | Configuration | * |
|--|--------------------------------------|---|--|----------------------------|------------------|
| Cluster Name | Replication Factor | | | Credentials | |
| dm-j-hx-clus-6 | 2+2 • 0 | | | UCS Manager Host Name 1 | m |
| | | | | User Name | admin |
| Controller VM | | | | UCS Manager Host Name 2 | m |
| Create Admin Password | Confirm Admin Password | | | User Name | admin |
| •••••• | | 0 | | Site Name | DC1 |
| | | | | Org Name 1 | HX-POD-6 |
| | | | | 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 administrat | or@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-M55X |
| | .cisco.com | | cisco.com | Server 1 | / HX220C-M55X |
| Time Zone | | | | Server 8 | /HX220C-M55X |
| (UTC-08:00) Pacific Time | • 0 | | | Server 9 | /HX220C-M55X |
| | | | | Server 7 | /HX220C-MSSX |
| | | | | IP Addresses | |
| Auto Support | | | | Cluster Name | dm-j-hx-clus-6 |
| Auto Support | Send service ticket notifications to | | | Management Cluster | .cisco.com |
| (Recommended) | | | | Data Cluster | |
| | | | | Management Subnet Mask | 255.255.254.0 |
| | | | | 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 | ٢ | vswitch-hx-inband-mgmt | Server 9 (WZP22370075) | |
| Data VLAN Tag - Site 1 | Data VLAN Tag - Site 2 | | Data vSwitch | Management Hypervisor | |
| 3099 🕄 | 3099 | ٢ | vswitch-hx-storage-data | Management Storage Control | ler 9 |
| | | | | Data Hypervisor | _ |
| | | | | Data Storage Controller | _ |
| Advanced Configuration | | | | Server 3 (WZP22370078) | |
| Jumbo Frames Enable Jumbo Frames on Data Network | Disk Partitions | | Virtual Desktop (VDI) Optimize for VDI only deployment | < Back | Start |
| Control First First Co. | | | | | |

步驟5.確認集群建立已成功完成。

| Pro | ogress | | Summary |
|---|--|------------------------------|---------------------------------------|
| | | | |
| o <u></u> | | | Configuration |
| Start Config Installer | Deploy Deploy Validation | Create Clu Validation Cre | eation Credentials |
| | | | UCS Manager Host Name 1 |
| | | | User Name admin |
| Cluster Creation Successful | | View Summar | y > 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. | Configuring NTP Services | | Admin User name root |
| In Progress | | | Server Selection |
| | | | Server 2 / HX220C-M55X |
| 192.168. | Configuring NTP Services | | Server 3 / HX220C-M55X |
| In Progress | | | Server 1 / HX220C-M55X |
| 192 168 | | | Server 8 / HX220C-M55X |
| In Progress | Configuring NTP Services | | Server 9 / HX220C-M55X |
| | | | Server 7 / HX220C-M55X |
| 192.168. | Configuring NTP Services | | IP Addresses |
| In Progress | | | 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 |
| 192.168. | | | Data Subnet Mask 255.255.255.0 |
| In Progress | Configuring NTP Services | | Management Gateway |
| | | | Witness IP |
| | | | Server 9 (WZP22370075) |

驗證

資料儲存庫建立

步驟1.在延伸群集上建立datastore類似於在普通群集上建立datastore。唯一的區別是,在拉伸群集 中建立datastore時定義站點關聯。在Hyperflex Connect UI中導航到Datastore,然後點選Create Datastore

| ≡ | cisco HyperFlex Connect | -stretch-1 | Ę | 3 🔅 | 0 | 2 |
|----------------------|-----------------------------|--|-----------------|--------------|----------|---|
| Ø | Dashboard | Datastores | st refreshed at | 02/16/2019 2 | 37:10 PM | 0 |
| MON | IITOR | ■ Create Datastore ノ Edit マ Mount ③ Unmount × Delete | | | | |
| \bigcirc | Alarms | | | | | |
| | Events | Name ^ Mount Summary Site Affinity Pairing Status Status | Size | Used | Free | |
| Î | Activity | No records found | | | | |
| ANAI Ella PROT | LYZE Performance rect | | | | | |
| C | Replication | | | | | |
| MAN | AGE System Information | | | | | |
| • | Datastores | | | | | |
| Ţ | Virtual Machines | | | | | |
| \uparrow | Upgrade | | | | | |
| >_ | Web CLI | | | | | |

步驟2.創建資料儲存並選擇其大小。然後,在附**加步驟**中,在Site Affinity下拉選單下選擇這兩個站 點之一。然後按一下Create Datastore

| Create Datastore | | | | $@\otimes$ |
|---------------------------------------|-------|---|------------|------------|
| Datastore Name | | | | |
| DS-01 | | | | |
| Size | | | Block Siz | e |
| 1 | ТВ | Ŧ | 8K | ~ |
| Site Affinity | | | | |
| Select Site affinity | | | | ^ |
| DC2 | | | | |
| DC1 | | | | |
| · · · · · · · · · · · · · · · · · · · | ancel | c | reate Data | istore |

步驟3.確認新建立的datastore的狀態,該狀態顯示為MOUNTED,並且還顯示其站點關聯。

| Datas | tores | refreshed | at: 02/16/2019 2 | :41:02 PM | | | | | |
|---------|-------------|------------------|------------------|----------------|--------|------|------|------|--|
| 🗹 Creat | e Datastore | 🖊 Edit 🗸 Mount 🛞 | Unmount × Dele | nount ×Delete | | | | | |
| | 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