HyperFlex Stretch集群部署指南

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简介

Hyperflex扩展集群是具有地理位置分散的节点的单个集群。集群的两端都充当某些用户VM的主设 备。这些VM的数据会同步复制到其他站点。扩展集群使您能够访问整个集群,即使其中一个站点完 全关闭。通常,这些站点之间连接时会有低延迟、专用的高速链路。

HyperFlex扩展群集使您能够为需要高正常运行时间(恢复时间目标接近于零)和无数据丢失(恢复 点目标为零)的任务关键型工作负载部署主动 — 主动灾难避免解决方案。

先决条件

要求

- •集群中的所有节点应为相同的M5型号(全HX220 M5)或(HX 240 M5)
- sctretch集群中仅支持M5节点
- 仅ESXi HX平台支持Stretch群集
- 每个站点至少应有2个节点
- •两个集群上使用的所有VLAN必须相同
- 扩展集群配置需要见证虚拟机
- 扩展群集需要的IP地址数量与六节点群集所需的IP地址数量相同
- 扩展集群仅使用一个vCenter实例
- 扩展群集要正常运行,需要使用带DRS和HA的vCenter

使用的组件

• HX安装程序

- 思科HX M5服务器
- VMWare vCenter
- Cisco UCSM
- VMWare ESXi

其他要求

- 安装前检查列表
- <u>部署见证虚拟机</u>
- <u>更改见证VM密码</u>

配置

网络图



配置

扩展集群的所有配置都将通过单个HX安装程序完成。延伸集群安装步骤的工作流程如下所示:



步骤1.登录到各分配的HX安装程序以启动集群配置。如果安装程序仍显示先前的安装状态,请单击 上面栏中的轮子,然后选择"Start Over(开始)"开始新安装。在"选**择工作流—**>创**建集群—**>(选 择)**延伸集群**。

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

步骤2.在配置站点工作流程中,在站**点名称**中输入UCSM凭证和DC**信息**。然后单击继续。

| | | e e |) () | 0 | • | \$ ~ |
|---|---|---|---|---|---|--|
| Server Selection | UCSM Configuration | n | Нур | ervisor Configu | uration | |
| h site. user documentation. Provide the IF r both sites have been configured. Cluster nager User Name | P address of the Witness VM when you Password | create | configuration | Drag and drop guration files h Select a File | ere or | |
| | Server Selection ch site. user documentation. Provide the I er both sites have been configured. Cluster n | Server Selection UCSM Configuration | Server Selection th site. user documentation. Provide the IP address of the Witness VM when you create ar both sites have been configured. Cluster nager User Name Password n | Server Selection UCSM Configuration Hyp th site. user documentation. Provide the IP address of the Witness VM when you create er both sites have been configured. Cluster nager User Name Password n Configuration Mathematical Configuration Configuration Configuration Cluster Imager User Name Password Imager User Name Imager User Name Password Imager User Name Imager User Name Imager User Name Imager User Nam | Server Selection UCSM Configuration Approvisor Configuration ch site. user documentation. Provide the IP address of the Witness VM when you create or both sites have been configured. Cluster n Password n Orag and drop configuration lifes h Select a File | Server Selection UCSM Configuration the site. user documentation. Provide the IP address of the Witness VM when you create rb oth sites have been configured. Cluster n Password n Orag and drop configuration files here or Select a File (Back Continue |

步骤3.在服务器选择中,选择源服务器,然后单击"继续"

| .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 | or 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 | |

步骤4.在UCSM**配置**部分输**入VLAN ID**和VLAN名称。在本例中,我们使用了Inband for CIMC。单击"继**续"**

| HyperFlex Ins | taller | | | 0 0 | 0 | 0 | ¢ . |
|-----------------------------|--------------------------------|-------------------------|--------------------|---------------------|-------------------|-------------|---------|
| Credentials | | Server Selection | UCSM Configuration | Hyper | visor Configurati | on | |
| 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 I | Name dm- | j-fi-2.ciso | o.com |
| hx-inband-mgmt-Pod-6 | 222 3 | hx-storage-data-Pod- | 6 3099 3 | UCS Manager User I | Name | 1 | admin |
| | | | | Site Name | | | DC1 |
| VLAN for VM vMotion | | VLAN for VM Network | | Admin User name | | | root |
| VLAN Name | VLAN ID | VLAN Name | VLAN ID(s) | Server Selection | | | |
| hx-vmotion-Pod-6 | 3093 © | vm-network-Pod-6 | 3094 | Server 8 | | HX220C | -MSSX |
| | | | | Server 9 | , | HX220C | MSSX |
| MAG Deal | | | | Server 7 | | HX220C | -M55X |
| MAC POOL | | | | UCSM Configurati | on | | |
| MAC Pool Prefix | | | | VLAN Name | hx-inbar | id-mgmt- | -Pod-6 |
| 00:25:85:06 | | | | VLAN ID | | | 222 |
| | | | | VLAN Name | hx-stor. | age-data | -Pod-6 |
| 'by' IP Pool for Circo II | 10 | | | VLAN ID | | | 3099 |
| TIX IF FOULIDE CISCO II | nc - | | | VLAN Name | hao | vmotion- | -Pod-6 |
| IP Blocks | Subnet Mask | Gate | way | VLAN ID | | | 3093 |
| | 255.255.254 | 1.0 | | VLAN Name | vm- | network | Pod-6 |
| | | | | VLAN ID(s) | | | 3094 |
| Cisco IMC access man | agement (Out of band or I | inband) | | MAC Pool Prefix | | 00:25 | :85:06 |
| | -0 | | | IP Blocks | | | |
| Out of band 💿 | In band in | | | Subnet Mask | | 255.255 | 254.0 |
| | | | | Gateway | | | |
| VI AN for inband Circo | IMC connectivity | | | VLAN Name | hx-inba | ind-cimc- | -Pod-6 |
| VEAN for inband cisco | INC connectivity | | | VLAN ID | | | 222 |
| VLAN Name | VLAN ID | | | UCS Server Firmwar | e Version | | 3.2(3j) |
| hx-inband-cimc-Pod-6 | 222 | ٢ | | HyperFlex Cluster N | ame | dm-j-hx- | dus-6 |
| | | | | Org Name | | HX-4 | POD-6 |
| > iSCSI Storage | | | | ISCSI Storage | | | false |
| / iscal storage | | | | VLAN A Name | ho-ext | storage | iscsi-a |
| 5 FC 51010-1 | | | | VLAN B Name | hx-ext- | storage- | iscsi-b |
| > FC Storage | | | | FC Storage | | | false |
| | | | | WWXN Pool | 1 | 20:00:00: | 25:85: |
| Advanced | | | | VSAN A Name | hx-e | oxt-storag | ge-fc-a |
| UCS Server Firmware Version | HyperFlex Clust | ter Name Org M | Name | VSAN B Name | hx-e | st-storag | ge-fc-b |
| 3.2(3) • () | dm-j-hx-clu | s-6 H0 | (-POD-6 | | | | |
| | | | | < Back | Con | itinue | |

步骤5.在"虚拟机监控程序配置"部分提供所有请求的信息。然后单击**配置站**点以开始站点配置。

| 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 | | | | | |

步骤6.确认站点A虚**拟机监**控程序配置成功。

HyperFlex Installer



配置站点B

步骤1.单击轮子,然后选择Configure Site开始站点B配置,如下所示。

| cisco | HyperFlex Installer | | | | 0 | 0 | 0 | 0 | \$ ~ |
|-------------|---------------------|---|---------------|---------------|--------|----------|----------|-------------|-------------|
| | | | Progress | | | | Configur | e Site | |
| | | | | | Confi | guration | Create S | tretch Clus | ter |
| O- Start | Config | Validations | UCSM | Hypervisor | Conn | guration | Log Out | (root) | |
| Start | Installer | (and a for the second | Configuration | Configuration | Creder | ntials | | | |

步骤2.在"配置站点"工作流程中,在"站点名称"中输入目标UCSM凭据和目标DC。然后单击继续。

| lili. cisco | 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 v • Download and deploy the Witness the stretch cluster. • Run the "Create Stretch Cluster" wo Configure Site Creater Configure Site Creater Character Character Creater Character Character Character Creater Character C | once for each site. VM, per the user documentation. Provide the II orkflow, after both sites have been configured. rate Stretch Cluster is site | P address of the Witness VM when you create | Con | figuratior | 1 | | * |
| | UCS Manager Host Name | UCS Manager User Name | Password | | | | | |
| | | admin | •••••• | | | | | |
| | Site Name | | | | | | | |
| | DC2 | | | | | | | |
| | | | | | | | | |

步骤3.在服务器选择中,选择源服务器,然后单击"继续"

| ului cisc | ı. o | HyperFl | ex Installer | | | | | 0 | | | ø | ¢ ~ |
|--------------|---------------|-------------------------------|--------------------------------|--------------|-----------------|------------------------|---------------|---------------|----------------------|-------------|---------------|--------------|
| | | Cred | entials | S | erver Selection | UCSM | Configuration | | Нуре | rvisor Conf | iguration | |
| | Server | Selection | 1 | | | Configure Server Ports | Refresh | Cor | nfiguratio | n | | 4 |
| | Sele Unas: | ect Nodes for sociated (9) | r this site. Associated (0) | | | | | Crec | lentials | | | |
| 1 | | ÷ | Server Name | Status | Model | Serial | Actions | UCS | Manager Hosi | Name | dm-j-fi-3.cis | sco.com |
| | | () () | Server 1 | unassociated | HX220C-M5SX | | none | UCS Site I | Manager User Name | Name | | admin DC2 |
| | | O | Server 2 | unassociated | HX220C-M5SX | | none | Serv | er Selection | | | |
| | | 0 | Server 3 | unassociated | HX220C-M5SX | | none | Serve | er 1 | | / HX220 | C-M5SX |
| | | 0 | Server 4 | unassociated | HX220C-M5SX | | none | Serve | er 3 | | / HX220 | C-M5SX |
| | \square | ()) | Server 5 | unassociated | HX220C-M5SX | | none | | | | | |

步骤4.在UCSM**配置**部分输**入VLAN ID**和VLAN名称。在本例中,我们使用了Inband for CIMC。单 击"继**续"**

| disdls HyperFlex Install | er | | | 0 | 0 0 | 0 | 0 ~ |
|---|-----------------------------------|---|---------------------------------|--|---|--|---------------------|
| Credentials | Server | Selection | UCSM Configuration | | Hypervisor Config | uration | |
| VLAN Configuration VLAN for Hypervisor and HyperFit VLAN Name N hx-inband-mgmt | ex management VLAN ID 222 © | VLAN for HyperFlex storag VLAN Name hx-storage-data | te traffic VLAN ID 3099 © | Config Credenti UCS Manu UCS Manu | uration ials ager Host Name ager User Name | ad | 4 fmin |
| VLAN for VM vMotion VLAN Name hx-vmotion | 3093 | VLAN for VM Network VLAN Name vm-network | VLAN ID(s) 309-4 | Site Name Server Si Server 1 Server 2 Server 3 | election | / HX220C-M / HX220C-M / HX220C-M | DC2 tSSX tSSX |
| MAC Pool MAC Pool Prefix 00:25:85: | | | | | | | |
| 'hx' IP Pool for Cisco IMC IP Blocks | Subnet Mask 255.255.254.0 | Gatewa | ry | | | | |
| Cisco IMC access manager | ment (Out of band or Inband) | 1 | | | | | |
| VLAN for inband Cisco IMC | C connectivity | | | | | | |
| hx-inband-cime-Pod-7 | 222 | ۲ | | | | | |
| > FC Storage | | | | | | | |
| Advanced UCS Server Firmware Version | HyperFlex Cluster Name | Org Na | me XOD-7 | | | | |
| 0.2(01) | rtyperriex cluster | HX-P | | < в | lack | Continue | |

步骤5.在"虚拟机监**控程序配**置"部分提供所有请求的信息。然后单击**配置站**点以开始站点配置。

| disco HyperFlex Installer | | | 0 0 0 | • • |
|---|---------------------|--------------------|-----------------------------|-----------------|
| Credentials | Server Selection | UCSM Configuration | Hypervisor Config | uration |
| | | | | |
| Configure common Hypervisor Settin | gs | | Configuration | * |
| Subnet Mask | Gateway | DNS Server(s) | Credentials | |
| 255.255.254.0 | | | UCS Manager Host Name | _ |
| | | | UCS Manager User Name | admin |
| | | | Site Name | DC2 |
| Hypervisor Settings | | | Admin User name | root |
| Make IP Addresses and Hostnames Sequentia | al | | Server Selection | |
| | | | Server 1 | / HX220C-M55X |
| 4t Name Serial | Static IP Address | Hostname | Server 2 | / HX220C-M5SX |
| | | | Server 3 | / HX220C-M55X |
| Server 1 | | dm-j-hx-21 | UCSM Configuration | |
| | _ | | VLAN Name B | hx-inband-mgmt |
| Server 2 | | dm-j-hx-22 | VLAN ID | 222 |
| | | | VLAN Name | hx-storage-data |
| Server 3 | | dm-j-hx-23 | VLAN ID | 3099 |
| | | | VLAN Name | hx-vmotion |
| | | | VLAN ID | 3093 |
| Hypervisor Credentials | | | VLAN Name | vm-network |
| hypervisor creacitatis | | | VLAN ID(s) | 3094 |
| Admin User name | Hypervisor Password | | MAC Pool Prefix | 00:25:B5:07 |
| root | ••••• | | IP Blocks | |
| | | | Subnet Mask | 255.255.254.0 |
| | | | Gateway | |
| | | | VLAN Name hx-inb | and-cimc-Pod-7 |
| | | | VLAN ID | 222 |
| | | | UCS Server Firmware Version | 3.2(3h) |
| | | | < Back Co | onfigure Site |

步骤6.确认站点B虚**拟机监**控程序配置成功。

| cisco HyperFlex Installer | cisco | HyperFlex | Installer |
|---------------------------|-------|-----------|-----------|
|---------------------------|-------|-----------|-----------|

| | | | Progress | |
|------------------------------------|------|------------------------------------|--------------------------------------|------------------------------------|
| Start Config Installer | | Validations | UCSM Configuration | Hypervisor Configuration |
| ✓ Hypervisor Configuration Succes | sful | | | |
| | | | Hypervisor Configuration | ; |
| Hypervisor Configuration - Overall | 1 | Login to UCS API | | |
| Succeeded | 1 | Configuring static ip on the spec | ified ESXi servers | |
| | 1 | Configuring static ip on a ESXi se | erver | |
| | ~ | Login to ESXi through SoL with u | iser specified username and password | |
| | 1 | Logout from UCS API | | |
| | ~ | CONFIGURATION COMPLETED S | UCCESSFULLY | |

HX见证VM部署

- 这是继续前的重要步骤。HX见证VM需要启动并运行,并且可访问,以便安装成功。
- OVA映像需要部署在ESXi主机上。
- •请测试与此VM的连接并确保登录正常。
- 有关OVA安装属性,请参阅以下内容。

| 🎁 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 | - Networking Properties | 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 |

创建延伸群集

步骤1:

- •要开始配置延伸群集,请导航至安装**程序**上的轮,并选**择创建延伸群集**以开始延伸群集配置。
- 在凭证屏幕中提供源(站点A)和目标(站点B)UCSM及其凭证、站点名称、UCSM组织名称、 vCenter和虚拟机监控程序凭证。单击Continue(继续)进入"Server Selection(服务器选择)"屏幕

o

| altalta cisco | HyperFlex Installer | | | | 0 | | | 0 | ۵ - |
|------------------|---|--|-------------------------------------|------------|------|--------------|---------------|----------|-----|
| | Credentials | Server Selection | IP Addresse | 15 | | Clus | ster Configur | ation | |
| (i) | To setup stretch cluster you have to • Run the "Configure Site" workflow of • Download and deploy the Witness' the stretch cluster. • Run the "Create Stretch Cluster" wo Configure Site | once for each site. VM, per the user documentation. Provide the orkflow, after both sites have been configured eate Stretch Cluster | IP address of the Witness VM when y | you create | Conf | figuration | 1 | | * |
| | UCS Manager Credentials for Sit | User Name | Password | 0 | | | | | |
| | Site Name | Ore Name | | | | | | | |
| | DC1 | HX-POD-6 | | | | | | | |
| | UCS Manager Credentials for Sit | User Name admin Org Name HX-POD-7 | Password | ٥ | | C configu | | | |
| | vCenter Credentials | Hear Marrie | Admin Personal | | | | | | |
| | | administrator@vsphere.local | ******* | • | | | | | |
| | Hypervisor Credentials Admin User name root The hypervisor on this node uses the fac Hypervisor Password | tory default password | | | | (Back | | Continue | |

第二步:确保所有服务器(源和目标服务器)都显示为选定状态。??然后单击继续,

| :0 | Нур | Credentials | aller | | | Server Selection | IP Ar | ddresses | U | Clus | ter Configura | ation | \$ |
|----------------|---------------------|-------------------------------------|-------|--------|-----------------|------------------|--|------------|--------------------|---------------------|---------------|-------------|---------|
| Serve Serve | er Sele elect No | ection des for this site. (6) | | | | | Configure Server Ports | Refresh | Conf | iguration ntials | | | + |
| | ÷¢ | Server Name | Site | Status | Model | Serial | Service Profile | Actions | UCS Ma | anager Host | Name 1 | | admin |
| | 0 | Server 8 | DC1 | ok | HX220C- M5SX | _ | org-root/org-HX-POD-6/ls-rack- unit-8 | Actions ~ | UCS Ma | anager Host | Name 2 | | |
| | 0 | Server 9 | DC1 | ok | HX220C- M5SX | | org-root/org-HX-POD-6/ls-rack- unit-9 | Actions ~ | User Na Site Na | ame me | | a | dmin |
| | 0 | Server 7 | DC1 | ok | HX220C- M5SX | | org-root/org-HX-POD-6/ls-rack- unit-7 | Actions ~ | Org Na Site Na | me 1 me | | HX-P | OD-6 |
| | 00 | Server 2 | DC2 | ok | HX220C- M5SX | | org-root/org-HX-POD-7/ls-rack- unit-2 | Actions ~ | Org Na | me 2 | | HX-P | 'OD-7 |
| | 0 | Server 3 | DC2 | ok | HX220C- M5SX | | org-root/org-HX-POD-7/ls-rack- unit-3 | Actions $$ | User Na | ame | administra | tor@vsphere | e.local |
| | 0 | Server 1 | DC2 | ok | HX220C- M5SX | _ | org-root/org-HX-POD-7/ls-rack- unit-1 | Actions ~ | Admin | User name | | | root |
| | | | | | | | | | | | | | |

步骤3.在"IP地址"部分中,提供**虚拟机监控程序**和存储控制器管理(公共可路由)IP以及其 DATA(私有不可路由)IP。此外,为管理**和数据网络提供集群IP**。单击 Continue。

| uluulu cisco | | нy | /perFlex In | staller | | | | | | | | | 0 | | 0 | 0 | ø ~ |
|-----------------|-------|--------|----------------|----------------|-----------|-----------|------------|--------|------------|-------------------|--------------------|---|---------|-------------|--------------|-------------|------------|
| | | | Credentials | | | Server | Selection | | | | IP Addresses | | | Clus | ter Configur | ation | |
| | | | | | | | | | | | | _ | | | | | |
| 11 | P Ado | dres | ises | | | | | | | | | | Confi | guratior | ı | | * |
| | Ma | ake IP | Addresses Sequ | ential | | | | | | | | | Creder | ntials | | | |
| | | | | | | | | | | | | | UCS Ma | inager Host | Name 1 | | - |
| | | | | | Manag | ement - V | 'LAN | | (FQE | Data - N or II | VLAN P Address) | | User Na | ame | | | admin |
| | | | | | | | Storage | | | | Storage | | UCS Ma | inager Host | Name 2 | | |
| | 1 | ¢ | Name | Site | Hyperviso | r | Controller | 0 | Hypervisor | 0 | Controller | | User Na | ame | | | admin |
| | | | Sec. 10 | 0.01 | | _ | | | | _ | | | Site Na | me | | | DC1 |
| | | | Server a | bei | | | | | 192.168 | | 92.168. | | Org Na | me 1 | | HX- | POD-6 |
| | | | Secure 9 | DC1 | | | | | | | | | Site Na | me | | | DC2 |
| | | | Server o | DC1 | | | | | 192.168. | | 92.168. | | Org Na | me 2 | | HX- | POD-7 |
| | | | Server 7 | DC1 | | | | | 100.000 | | 00.000 | | VCenter | r Server | administra | tor@urpher | alocal |
| | | | berrer / | | _ | | | | 192.168. | _ | 92.168.0 | | Admin | User name | auministra | norevsprier | root |
| | | | Server 3 | DC2 | | | | | 192 168 | | 92 168 6 | | Server | Selection | | | |
| | | | | | | | | | 102.100. | - | 52.100. | | Server | 2 | | / HX2200 | -M55X |
| | | | Server 2 | DC2 | | | | | 192.168. | | 92.168. | | Server | 3 | | / HX2200 | -M5SX |
| | | | | | | | | | | | | | Server | 1 | | / HX2200 | -M5SX |
| | = @ | | Server 1 | DC2 | | | | | 192.168. | | 92.168. | | Server | 8 | | / HX2200 | -M5SX |
| | | | | | | | | | | | | | Server | 9 | | / HX2200 | -M5SX |
| | | | | | | | | | | | | | Server | 7 | | / HX2200 | -M55X |
| | | | | | Man | agement | | Data | | | | | | | | | |
| | | | | Cluster IP Add | ress | | | 192.16 | 8 💼 | | | | | | | | |
| | | | | | | | | 102.10 | | | | | | | | | |
| | | | | Subnet M | lask 25 | 5.255.254 | 4.0 | 255.25 | 55.255.0 | | | | | | | | |
| | | | | Gate | way | | - | | | | | | | | | | |
| | | | | Witne | ss IP | | - | | | | | | < | Back | | Continue | |

步骤4.在Cluster Configuration(集**群配置)**下,输入**Controller VM口**令、vCenter配置详细信**息、系统 服务详**细信息。在"高**级网络"**部分下,为两个站**点配置**相同的**管理**和**数据**VLAN。然后单击Start开始 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. | | | | | |

步骤5.确认群集创建已成功完成。

| Pro | ogress | | Summary |
|---|--|------------------|---------------------------------------|
| Start Config | Deploy Deploy | Create | Configuration |
| installer | validation | Validation | Creation |
| | | | User Name admin |
| Churches Creation Conservation | | 16 | UCS Manager Host Name 2 |
| Cluster Creation Successful | | ViewS | User Name admin |
| | | | Site Name DC1 |
| | | Cluster Creation | Org Name 1 HX-POD-6 |
| Cluster Creation - Overall | | | Site Name DC2 |
| Succeeded | Preparing Storage Cluster | | Org Name 2 HX-POD-7 |
| | Configuring Cluster Resource Manager | | vCenter Server |
| | ✓ updateClusterSEDStatus | | User Name administrator@vsohere.local |
| | | | Admin User name root |
| 192.168. In Progress | Configuring NTP Services | | Server Selection |
| | | | Server 2 / HX220C-M5SX |
| 192.168. | Configuring NTP Services | | Server 3 / HX220C-M55X |
| In Progress | | | Server 1 / HX220C-M5SX |
| | | | Server 8 / HX220C-M5SX |
| 192.168.1 | Configuring NTP Services | | Server 9 / HX220C-M55X |
| In Progress | | | Server 7 HX220C-M5SX |
| 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. | Configuring NTP Services | | Management Gateway |
| In Progress | | | Witness IP |
| | | | Server 9 (WZP22370075) |

验证

创建Datastore

步骤1.在延伸群集上创建Datastore类似于在普通群集上创建Datastore。唯一的区别是在扩展集群中 创建Datastore时定义站点关联。在Hyperflex Connect UI**中,导航**到Datastore,然**后单**击"创**建** Datastore"

| ≡ | ،،ای،،ا،، دەدە HyperFlex Connect | -stretch-1 | Ē | 3 ట్రై | 0 | ይ | | | | |
|----------------------|--|---|------|--------|------|---|--|--|--|--|
| \odot | Dashboard | Datastores Last re | | | | | | | | |
| MON | IITOR | ビ Create Datastore ✓ Edit ✓ Mount ⊗ Unmount × Delete | | | | | | | | |
| \bigcirc | Alarms | | | | | | | | | |
| | Events | Name ^ Mount Summary Site Affinity Pairing Status Status | Size | Used | Free | | | | | |
| Î | Activity | No records found | | | | | | | | |
| ANAI Lala PROT | LYZE Performance TECT Replication | | | | | | | | | |
| MAN | AGE System Information | | | | | | | | | |
| • | Datastores | | | | | | | | | |
| Ţ | Virtual Machines | | | | | | | | | |
| $\widehat{}$ | Upgrade | | | | | | | | | |
| >_ | Web CLI | | | | | | | | | |

步骤2.创建Datastore并选择其大小。然后,在其**他步骤**中,在"**站点关**联"下拉菜单中选择两个站点 之一。然后单击"Create Datastore"

| Create Datastore | | | | $@\otimes$ |
|----------------------|-------|---|------------|------------|
| Datastore Name | | | | |
| DS-01 | | | | |
| Size | | | Block Siz | e |
| 1 | тв | Ŧ | 8K | * |
| Site Affinity | | | | |
| Select Site affinity | | | | <u>^</u> |
| DC2 | | | | |
| DC1 | | | | |
| | ancel | c | reate Data | istore |

步骤3.确认新创建的数据存储的状态,它显示为MOUNTED,并显示其站点关联。

| Datas | tores | .t 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