

HyperFlex Stretch Clusters Deployment Guide

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Introduction

A Hyperflex stretched cluster is a single cluster with geographically distributed nodes. Both sides of the cluster act as primary for certain user VMs. The data for these VMs is replicated synchronously on the other site. Stretched clusters enable you to access the entire cluster even if one of the sites were to completely go down. Typically these sites are connected with a low latency, dedicated, high-speed link between them.

HyperFlex Stretched Cluster enables you to deploy an Active-Active disaster avoidance solution for mission critical workloads requiring high uptime (near zero Recovery Time Objective) and no data loss (zero Recovery Point Objective).

Prerequisites

Requirements

- All the nodes in the cluster should be of the same M5 models (All HX220 M5) or (HX 240 M5)
- Only M5 node are supported in stretch Clusters
- Stretch clusters is only supported on ESXi HX platforms
- Each site should have a minimum of 2 nodes
- ALL the VLANs used on both clusters have to be SAME
- Stretch cluster configuration requires a Witness VM
- Stretch Clusters require the same number of IP addresses that is needed for a six node cluster

- Only one instance of vCenter is used for a stretch cluster
- vCenter with DRS and HA is required for the stretch cluster to work properly

Components Used

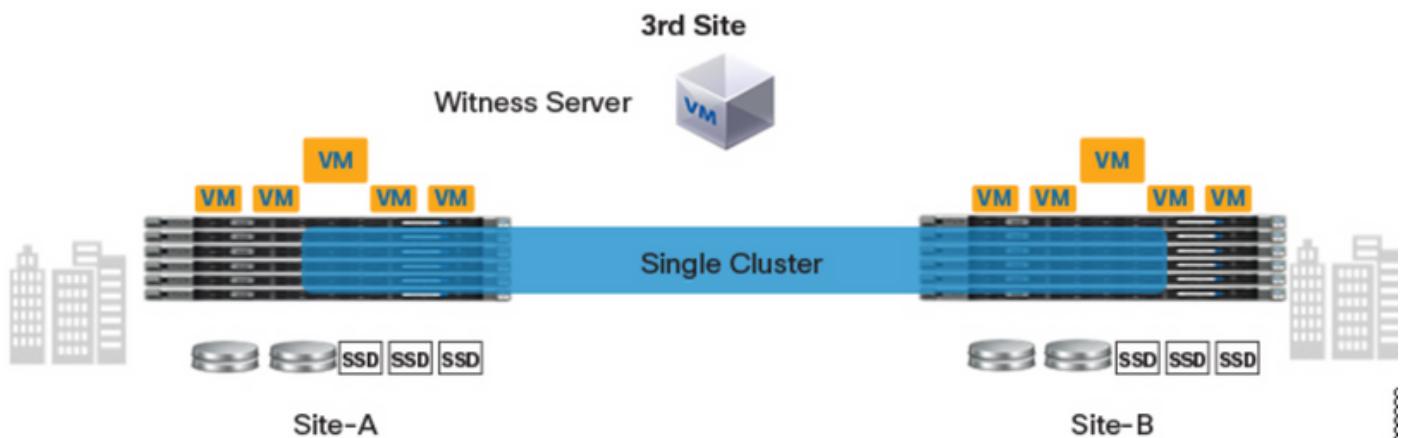
- HX Installer
- Cisco HX M5 servers
- VMWare vCenter
- Cisco UCSM
- VMWare ESXi

Other Requirements

- [Pre-installation Check List](#)
- [Deploying Witness VM](#)
- [Changing Witness VM Password](#)

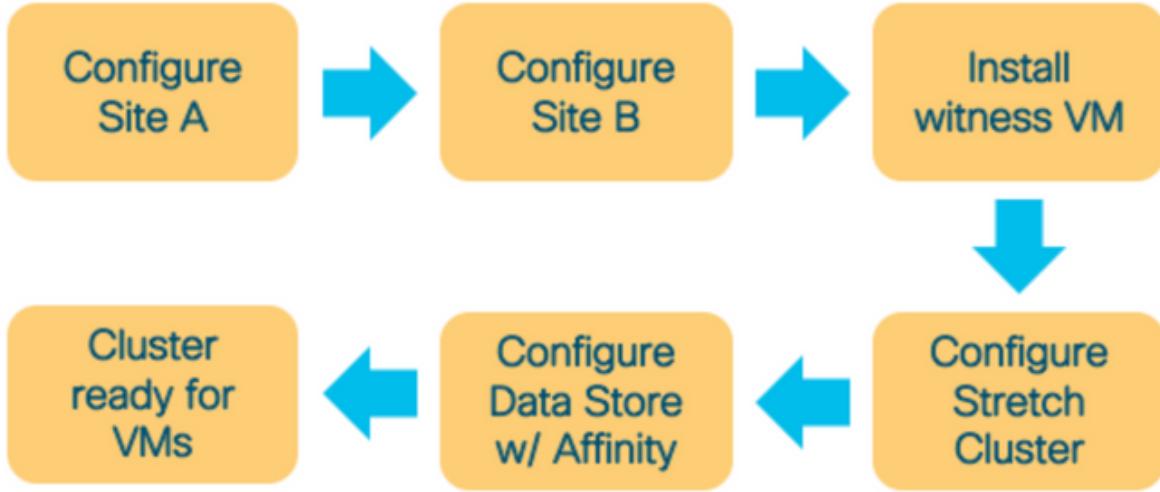
Configure

Network Diagram



Configurations

All the configuration for a stretch cluster will be done from a single HX installer. The workflow for stretch cluster install steps is as shown below:



Configure Site A

Step 1. Log on to the respective assigned HX installer to start the cluster configuration. If the installer is still showing the previous install status click on the wheel in the bar above and select Start Over to begin a fresh install. In the **Select a Workflow** --> **Create Cluster** -->(select) **Stretch Cluster**.

Step 2. In the configure site workflow enter the **UCSM credentials** and **DC** in the **Site Name**. Then click **Continue**.

To setup stretch cluster you have to

- Run the "Configure Site" workflow once for each site.
- Download and deploy the Witness VM, per the user documentation. Provide the IP address of the Witness VM when you create the stretch cluster.
- Run the "Create Stretch Cluster" workflow, after both sites have been configured.

Configure Site Create Stretch Cluster

UCS Manager Credentials for this site

UCS Manager Host Name	UCS Manager User Name	Password
[REDACTED]	admin	*****
UCS Manager FQDN or IP address		
Site Name		
DC1		

Configuration

Drag and drop configuration files here or
Select a File

< Back Continue

Step 3. In the server selection, select the source servers and click **Continue**

Server Selection

Select Nodes for this site.

Unassociated (3) Associated (6)

	Server Name	Status	Model	Serial	Actions
<input checked="" type="checkbox"/>	Server 7	unassociated	HX220C-M5SX	[REDACTED]	none
<input checked="" type="checkbox"/>	Server 8	unassociated	HX220C-M5SX	[REDACTED]	none
<input checked="" type="checkbox"/>	Server 9	unassociated	HX220C-M5SX	[REDACTED]	none

Configure Server Ports Refresh

Configuration

Credentials

UCS Manager Host Name [REDACTED]

UCS Manager User Name admin

Site Name DC1

< Back Continue

Step 4. Under the **UCSM configuration** section enter the **VLAN ID** and **VLAN names**. In this

case we have used **Inband** for CIMC. Click **Continue**

The screenshot shows the Cisco HyperFlex Installer interface with the 'Hypervisor Configuration' tab selected. The left panel displays configuration details for VLANs and MAC pools, while the right panel shows a summary of the configuration.

VLAN Configuration

VLAN for Hypervisor and HyperFlex management		VLAN for HyperFlex storage traffic	
VLAN Name	VLAN ID	VLAN Name	VLAN ID
hx-inband-mgmt-Pod-6	222	hx-storage-data-Pod-6	3099

VLAN for VM vMotion		VLAN for VM Network	
VLAN Name	VLAN ID	VLAN Name	VLAN ID(s)
hx-vmotion-Pod-6	3093	vm-network-Pod-6	3094

MAC Pool

MAC Pool Prefix: 00:25:85:06

'hx' IP Pool for Cisco IMC

IP Blocks	Subnet Mask	Gateway
[REDACTED]	255.255.254.0	[REDACTED]

Cisco IMC access management (Out of band or Inband)

Out of band In band

VLAN for inband Cisco IMC connectivity

VLAN Name	VLAN ID
hx-inband-cimc-Pod-6	222

> iSCSI Storage

> FC Storage

Advanced

UCS Server Firmware Version	HyperFlex Cluster Name	Org Name
3.2(3)	dm-j-hx-clus-6	HX-POD-6

Configuration

UCS Manager Host Name	dm-j-fi-2.cisco.com
UCS Manager User Name	admin
Site Name	DC1
Admin User name	root
Server 8	/HX220C-MSSX
Server 9	/HX220C-MSSX
Server 7	/HX220C-MSSX

UCSM Configuration

VLAN Name	hx-inband-mgmt-Pod-6
VLAN ID	222
VLAN Name	hx-storage-data-Pod-6
VLAN ID	3099
VLAN Name	hx-vmotion-Pod-6
VLAN ID	3093
VLAN Name	vm-network-Pod-6
VLAN ID(s)	3094
MAC Pool Prefix	00:25:85:06
IP Blocks	[REDACTED]
Subnet Mask	255.255.254.0
Gateway	[REDACTED]
VLAN Name	hx-inband-cimc-Pod-6
VLAN ID	222
UCS Server Firmware Version	3.2(3)
HyperFlex Cluster Name	dm-j-hx-clus-6
Org Name	HX-POD-6
iSCSI Storage	false
VLAN A Name	hx-ext-storage-iscsi-a
VLAN B Name	hx-ext-storage-iscsi-b
FC Storage	false
WWPN Pool	20:00:02:25:85:
VSAN A Name	hx-ext-storage-fc-a
VSAN B Name	hx-ext-storage-fc-b

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Step 5. In the **Hypervisor Configuration** section provide all the requested information. Then click **Configure Site** to begin site configuration.

HyperFlex Installer

Credentials Server Selection UCSM Configuration Hypervisor Configuration

VLAN Configuration

VLAN for Hypervisor and HyperFlex management		VLAN for HyperFlex storage traffic	
VLAN Name	VLAN ID	VLAN Name	VLAN ID
hx-inband-mgmt-Pod-6	222	hx-storage-data-Pod-6	3099

VLAN for VM vMotion		VLAN for VM Network	
VLAN Name	VLAN ID	VLAN Name	VLAN ID(s)
hx-vmotion-Pod-6	3093	vm-network-Pod-6	3094

MAC Pool

MAC Pool Prefix: 00:25:85:06

'hx' IP Pool for Cisco IMC

IP Blocks	Subnet Mask	Gateway
[REDACTED]	255.255.254.0	[REDACTED]

Cisco IMC access management (Out of band or Inband)

Out of band In band

VLAN for inband Cisco IMC connectivity

VLAN Name	VLAN ID
hx-inband-cimc-Pod-6	222

> iSCSI Storage

> FC Storage

Advanced

UCS Server Firmware Version	HyperFlex Cluster Name	Org Name
3.2(3j)	dm-j-hx-clus-6	HX-POD-6

Configuration

Credentials

UCSM Manager Host Name: [REDACTED]
UCS Manager User Name: admin
Site Name: DC1
Admin User name: root

Server Selection

Server 8: [REDACTED] / HX220C-MSSX
Server 9: [REDACTED] / HX220C-MSSX
Server 7: [REDACTED] / HX220C-MSSX

UCSM Configuration

VLAN Name	VLAN ID
hx-inband-mgmt-Pod-6	222
hx-storage-data-Pod-6	3099
hx-vmotion-Pod-6	3093
vm-network-Pod-6	3094

MAC Pool Prefix: 00:25:85:06

IP Blocks: [REDACTED]
Subnet Mask: 255.255.254.0
Gateway: [REDACTED]

VLAN Name: hx-inband-cimc-Pod-6
VLAN ID: 222
UCS Server Firmware Version: 3.2(3j)
HyperFlex Cluster Name: dm-j-hx-clus-6
Org Name: HX-POD-6
iSCSI Storage: false
VLAN A Name: hx-ext-storage-iscsi-a
VLAN B Name: hx-ext-storage-iscsi-b
FC Storage: false
WWNN Pool: 20:00:00:25:85:
VSAN A Name: hx-ext-storage-fc-a
VSAN B Name: hx-ext-storage-fc-b

[« Back](#) [Continue](#)

Step 6. Confirm that the Site A Hypervisor Configuration is **Successful**.



Progress

The screenshot shows the HyperFlex Installer progress bar with five steps: Start, Config Installer, Validations, UCSM Configuration, and Hypervisor Configuration. All steps except 'Start' have green checkmarks. Below the progress bar, a message '✓ Hypervisor Configuration Successful' is displayed within a red-bordered box. Underneath, a detailed log for 'Hypervisor Configuration - Overall' shows six tasks with green checkmarks, all labeled 'Succeeded'. The tasks are: Login to UCS API, Configuring static ip on the specified ESXi servers, Configuring static ip on a ESXi server, Login to ESXi through SoL with user specified username and password, Logout from UCS API, and CONFIGURATION COMPLETED SUCCESSFULLY.

Configure Site B

Step 1. Click on the **wheel** and select **Configure Site** to begin the **Site B** configuration as shown below.

The screenshot shows the HyperFlex Installer interface with the 'Configure Site' option highlighted by a red box. The progress bar at the top shows five steps: Start, Config Installer, Validations, UCSM Configuration, and Hypervisor Configuration, all with green checkmarks. To the right of the progress bar, there are three dropdown menus: 'Configuration' (highlighted), 'Credentials', and 'Site Name'. The 'Configuration' menu has three options: 'Configure Site' (highlighted), 'Create Stretch Cluster', and 'Log Out (root)'. The 'Credentials' and 'Site Name' menus are currently empty.

Step 2. In the **Configure Site** workflow enter the Target **UCSM** credentials and Target **DC** in the Site Name. Then click **Continue**.

To setup stretch cluster you have to

- Run the "Configure Site" workflow once for each site.
- Download and deploy the Witness VM, per the user documentation. Provide the IP address of the Witness VM when you create the stretch cluster.
- Run the "Create Stretch Cluster" workflow, after both sites have been configured.

Configure Site Create Stretch Cluster

UCS Manager Credentials for this site

UCS Manager Host Name UCS Manager User Name Password

Site Name

DC2

Configuration

Step 3. In the server selection, select the source servers and click **Continue**

Select Nodes for this site.

Unassociated (9) Associated (0)

	Server Name	Status	Model	Serial	Actions
<input checked="" type="checkbox"/>	Server 1	unassociated	HX220C-M5SX	[redacted]	none
<input checked="" type="checkbox"/>	Server 2	unassociated	HX220C-M5SX	[redacted]	none
<input checked="" type="checkbox"/>	Server 3	unassociated	HX220C-M5SX	[redacted]	none
<input type="checkbox"/>	Server 4	unassociated	HX220C-M5SX	[redacted]	none
<input type="checkbox"/>	Server 5	unassociated	HX220C-M5SX	[redacted]	none

Configure Server Ports Refresh

Configuration

Credentials

UCS Manager Host Name dm-j-fi-3.cisco.com
UCS Manager User Name admin
Site Name DC2

Server Selection

Server 1 [redacted] / HX220C-M5SX
Server 2 [redacted] / HX220C-M5SX
Server 3 [redacted] / HX220C-M5SX

Step 4. Under the UCSM configuration section enter the **VLAN ID** and **VLAN names**. In this case we have used **Inband** for CIMC. Click **Continue**

HyperFlex Installer

Credentials Server Selection UCSM Configuration Hypervisor Configuration

VLAN Configuration

VLAN for Hypervisor and HyperFlex management		VLAN for HyperFlex storage traffic	
VLAN Name	VLAN ID	VLAN Name	VLAN ID
hx-inband-mgmt	222	hx-storage-data	3099

VLAN for VM vMotion		VLAN for VM Network	
VLAN Name	VLAN ID	VLAN Name	VLAN ID(s)
hx-vmotion	3093	vm-network	3094

MAC Pool

MAC Pool Prefix: 00:25:B5:

'hx' IP Pool for Cisco IMC

IP Blocks	Subnet Mask	Gateway
1 [REDACTED]	255.255.254.0	[REDACTED]

Cisco IMC access management (Out of band or Inband)

Out of band (selected) In band (selected)

VLAN for inband Cisco IMC connectivity

VLAN Name	VLAN ID
hx-inband-clmc-Pod-7	222

> iSCSI Storage

> FC Storage

Advanced

UCS Server Firmware Version	HyperFlex Cluster Name	Org Name
3.2(3h) ▼	HyperFlex cluster	HX-POD-7

◀ Back Continue

Step 5. In the **Hypervisor Configuration** section provide all the requested information. Then click **Configure Site** to begin site configuration.



Credentials

Server Selection

UCSM Configuration

Hypervisor Configuration

Configure common Hypervisor Settings

Subnet Mask

255.255.254.0

Gateway

[REDACTED]

DNS Server(s)

[REDACTED]

Hypervisor Settings

 Make IP Addresses and Hostnames Sequential

IP

Name

Serial

Static IP Address

Hostname

Server 1

[REDACTED]

[REDACTED]

dm-j-hx-21

Server 2

[REDACTED]

[REDACTED]

dm-j-hx-22

Server 3

[REDACTED]

[REDACTED]

dm-j-hx-23

Hypervisor Credentials

Admin User name

root

Hypervisor Password



Configuration

Credentials

UCS Manager Host Name [REDACTED]

[REDACTED]

UCS Manager User Name admin

admin

Site Name DC2

root

Server Selection

Server 1 [REDACTED] / HX220C-M5SX

Server 2 [REDACTED] / HX220C-M5SX

Server 3 [REDACTED] / HX220C-M5SX

UCSM Configuration

VLAN Name hx-inband-mgmt

222

VLAN Name hx-storage-data

3099

VLAN Name hx-vmotion

3093

VLAN Name vm-network

3094

MAC Pool Prefix 00:25:B5:07

IP Blocks [REDACTED]

[REDACTED]

Subnet Mask 255.255.254.0

Gateway [REDACTED]

[REDACTED]

VLAN Name hx-inband-cimc-Pod-7

222

VLAN ID(s) [REDACTED]

[REDACTED]

UCS Server Firmware Version 3.2(3h)

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Configure Site

Step 6. Confirm that the **Site B** Hypervisor Configuration is **Successful**.



✓ Hypervisor Configuration Successful

Hypervisor Configuration

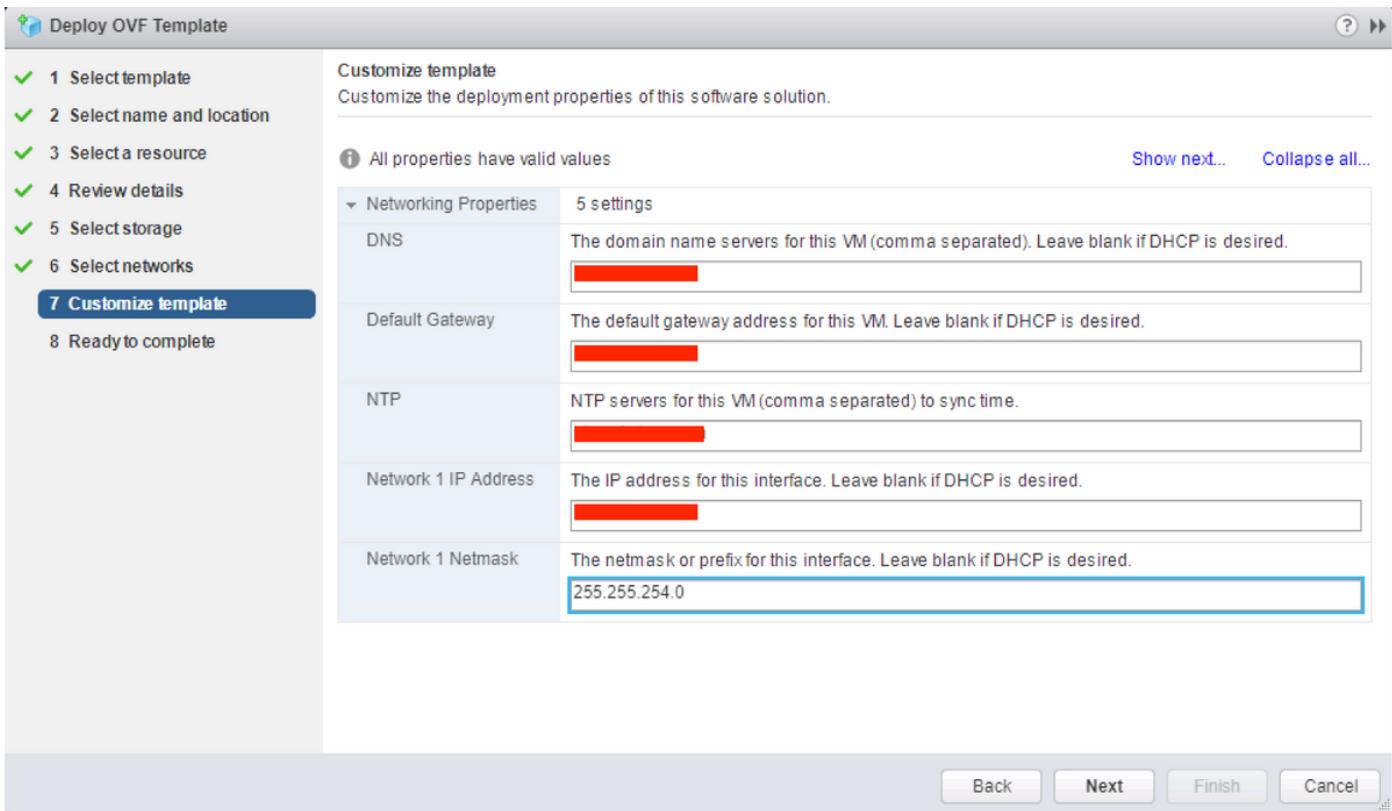
Hypervisor Configuration - Overall

Succeeded

- ✓ Login to UCS API
- ✓ Configuring static ip on the specified ESXi servers
- ✓ Configuring static ip on a ESXi server
- ✓ Login to ESXi through Sol with user specified username and password
- ✓ Logout from UCS API
- ✓ CONFIGURATION COMPLETED SUCCESSFULLY

HX Witness VM Deployment

- This is an **important** step before proceeding further. The HX witness VM needs to be up and running and reachable for the install to succeed.
- An OVA image needs to be deployed on a ESXi host.
- Please test connectivity to this VM and make sure login works.
- Refer the below for OVA install properties.



Create Stretch Cluster

Step 1.

- To begin configuring the stretch cluster navigate to the **Wheel** on the installer and **select Create Stretch Cluster** to begin the stretch cluster configuration.
- In the credentials screen provide the **source (Site A)** and **Target (Site B) UCSM** and its credentials, **Site name**, **UCSM Org name**, **vCenter** and **Hypervisor** credentials. Click **Continue** to proceed to the **Server Selection** screen.

HyperFlex Installer

Credentials Server Selection IP Addresses Cluster Configuration

To setup stretch cluster you have to

- Run the "Configure Site" workflow once for each site.
- Download and deploy the Witness VM, per the user documentation. Provide the IP address of the Witness VM when you create the stretch cluster.
- Run the "Create Stretch Cluster" workflow, after both sites have been configured.

Configure Site Create Stretch Cluster

UCS Manager Credentials for Site 1

UCS Manager Host Name	User Name	Password
[REDACTED]	admin	*****

Site Name	Org Name
DC1	HX-POD-6

UCS Manager Credentials for Site 2

UCS Manager Host Name	User Name	Password
[REDACTED]	admin	*****

Site Name	Org Name
DC2	HX-POD-7

vCenter Credentials

vCenter Server	User Name	Admin Password
[REDACTED]	administrator@vsphere.local	*****

Hypervisor Credentials

Admin User name

root

The hypervisor on this node uses the factory default password

Hypervisor Password

Configuration

Drag and drop configuration files here or

Select a File

< Back Continue

Step 2. Make sure that all the servers (both source and target servers) are show as selected. Then click **Continue**,



Credentials

Server Selection

IP Addresses

Cluster Configuration

Server Selection

Select Nodes for this site.

Associated (6)

Configure Server Ports

Refresh

<input checked="" type="checkbox"/>		Server Name	Site	Status	Model	Serial	Service Profile	Actions
<input checked="" type="checkbox"/>		Server 8	DC1	ok	HX220C-M5SX	[REDACTED]	org-root/org-HX-POD-6/ls-rack-unit-8	Actions ▾
<input checked="" type="checkbox"/>		Server 9	DC1	ok	HX220C-M5SX	[REDACTED]	org-root/org-HX-POD-6/ls-rack-unit-9	Actions ▾
<input checked="" type="checkbox"/>		Server 7	DC1	ok	HX220C-M5SX	[REDACTED]	org-root/org-HX-POD-6/ls-rack-unit-7	Actions ▾
<input checked="" type="checkbox"/>		Server 2	DC2	ok	HX220C-M5SX	[REDACTED]	org-root/org-HX-POD-7/ls-rack-unit-2	Actions ▾
<input checked="" type="checkbox"/>		Server 3	DC2	ok	HX220C-M5SX	[REDACTED]	org-root/org-HX-POD-7/ls-rack-unit-3	Actions ▾
<input checked="" type="checkbox"/>		Server 1	DC2	ok	HX220C-M5SX	[REDACTED]	org-root/org-HX-POD-7/ls-rack-unit-1	Actions ▾

Configuration

Credentials

UCS Manager Host Name 1	[REDACTED]
User Name	admin
UCS Manager Host Name 2	[REDACTED]
User Name	admin
Site Name	DC1
Org Name 1	HX-POD-6
Site Name	DC2
Org Name 2	HX-POD-7
vCenter Server	[REDACTED]
User Name	administrator@vsphere.local
Admin User name	root

Step 3. In the IP Address Section, provide the Hypervisor and Storage controller mgmt (Public routable) IP as well as their DATA (Private non routable) IP. Also, provide the cluster IP for both Management and Data networks. Click Continue.

HyperFlex Installer

Credentials Server Selection IP Addresses Cluster Configuration

IP Addresses

Make IP Addresses Sequential

ID	Name	Site	Management - VLAN		Data - VLAN (FQDN or IP Address)	
			Hypervisor	Storage Controller	Hypervisor	Storage Controller
1	Server 9	DC1	[Redacted]	[Redacted]	192.168.1.1	92.168.1.1
2	Server 8	DC1	[Redacted]	[Redacted]	192.168.1.2	92.168.1.2
3	Server 7	DC1	[Redacted]	[Redacted]	192.168.1.3	92.168.1.3
4	Server 3	DC2	[Redacted]	[Redacted]	192.168.2.1	92.168.2.1
5	Server 2	DC2	[Redacted]	[Redacted]	192.168.2.2	92.168.2.2
6	Server 1	DC2	[Redacted]	[Redacted]	192.168.2.3	92.168.2.3

Management Data

Cluster IP Address: [Redacted] / 192.168.1.1

Subnet Mask: 255.255.254.0 255.255.255.0

Gateway: [Redacted] [Redacted]

Witness IP: [Redacted]

Configuration

Credentials

UCS Manager Host Name 1: [Redacted]
User Name: admin

UCS Manager Host Name 2: [Redacted]
User Name: admin

Site Name: DC1
Org Name 1: HX-POD-6

Site Name: DC2
Org Name 2: HX-POD-7

vCenter Server: [Redacted]
User Name: administrator@vsphere.local
Admin User name: root

Server Selection

Server 2: [Redacted] / HX220C-M55X
Server 3: [Redacted] / HX220C-M55X
Server 1: [Redacted] / HX220C-M55X
Server 8: [Redacted] / HX220C-M55X
Server 9: [Redacted] / HX220C-M55X
Server 7: [Redacted] / HX220C-M55X

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Step 4. Under the **Cluster Configuration**, enter the **Controller VM** passwords, **vCenter configuration** details, **system services** details. Under the **Advanced Networking** section configure same **Management** and **Data** VLANs for both sites. Then click **Start** to begin the cluster configurations.

Cisco HX Cluster

Cluster Name: dm-j-hx-clus-6

Replication Factor: 2+2 (highlighted with a red box)

Controller VM

Create Admin Password: Confirm Admin Password:

vCenter Configuration

vCenter Datacenter Name: HX-Stretch vCenter Cluster Name: dm-j-hx-clus-6

System Services

DNS Server(s): <input type="text"/>	NTP Server(s): <input type="text"/> cisco.com	DNS Domain Name: cisco.com
-------------------------------------	---	----------------------------

Time Zone: (UTC-08:00) Pacific Time

Auto Support

Auto Support: Enable Connected Services (Recommended)

Send service ticket notifications to:

Advanced Networking

Management VLAN Tag - Site 1: 222	Management VLAN Tag - Site 2: 222	Management vSwitch: vswitch-hx-inband-mgmt
Data VLAN Tag - Site 1: 3099	Data VLAN Tag - Site 2: 3099	Data vSwitch: vswitch-hx-storage-data

Advanced Configuration

Jumbo Frames: <input checked="" type="checkbox"/> Enable Jumbo Frames on Data Network	Disk Partitions: <input type="checkbox"/> Clean up disk partitions	Virtual Desktop (VDI): <input type="checkbox"/> Optimize for VDI only deployment
---	--	--

Configuration

Credentials

UCS Manager Host Name 1:	<input type="text"/>
User Name:	admin
UCS Manager Host Name 2:	<input type="text"/>
User Name:	admin
Site Name:	DC1
Org Name 1:	HX-POD-6
Site Name:	DC2
Org Name 2:	HX-POD-7
vCenter Server:	<input type="text"/>
User Name:	administrator@vsphere.local
Admin User name:	root

Server Selection

Server 2:	<input type="text"/> / HX220C-M5SX
Server 3:	<input type="text"/> / HX220C-M5SX
Server 1:	<input type="text"/> / HX220C-M5SX
Server 8:	<input type="text"/> / HX220C-M5SX
Server 9:	<input type="text"/> / HX220C-M5SX
Server 7:	<input type="text"/> / HX220C-M5SX

IP Addresses

Cluster Name:	dm-j-hx-clus-6
Management Cluster:	<input type="text"/> cisco.com
Data Cluster:	<input type="text"/>
Management Subnet Mask:	255.255.254.0
Data Subnet Mask:	255.255.255.0
Management Gateway:	<input type="text"/>
Witness IP:	<input type="text"/>
Server 9 (WZP22370075):	<input type="text"/>
Management Hypervisor:	<input type="text"/>
Management Storage Controller:	<input type="text"/> 9
Data Hypervisor:	<input type="text"/>
Data Storage Controller:	<input type="text"/>
Server 3 (WZP22370078):	<input type="text"/>

[Back](#) [Start](#)

Step 5. Confirm that the Cluster creation completes Successfully.

Progress

Summary

Configuration

Credentials

- UCS Manager Host Name 1 [REDACTED]
- User Name admin
- UCS Manager Host Name 2 [REDACTED]
- User Name admin
- Site Name DC1
- Org Name 1 HX-POD-6
- Site Name DC2
- Org Name 2 HX-POD-7
- vCenter Server [REDACTED]
- User Name administrator@vsphere.local
- Admin User name root

Server Selection

- Server 2 [REDACTED] / HX220C-M55X
- Server 3 [REDACTED] / HX220C-M55X
- Server 1 [REDACTED] / HX220C-M55X
- Server 8 [REDACTED] / HX220C-M55X
- Server 9 [REDACTED] / HX220C-M55X
- Server 7 [REDACTED] / HX220C-M55X

IP Addresses

Cluster Name	dm-j-stretch-1
Management Cluster	[REDACTED]
Data Cluster	192.168.1.1
Management Subnet Mask	255.255.254.0
Data Subnet Mask	255.255.255.0
Management Gateway	[REDACTED]
Witness IP	[REDACTED]
Server 9 (WZP22370075)	

Verify

Datastore creation

Step 1. The datastore creation on a stretch cluster is similar to the a datastore creationon a normal cluster. The only difference is while creating a datastore in a stretch cluster is defining site affinity. In the **Hyperflex Connect UI** navigate to the **Datastores** and click **Create Datastore**

The screenshot shows the Cisco HyperFlex Connect interface. On the left, there's a navigation sidebar with sections: MONITOR (Alarms, Events, Activity), ANALYZE (Performance), PROTECT (Replication), and MANAGE (System Information, Datastores, Virtual Machines, Upgrade, Web CLI). The 'Datastores' section is currently selected and highlighted with a blue border. In the main content area, the title 'Datastores' is at the top, followed by a toolbar with icons for Create Datastore (highlighted with a red box), Edit, Mount, Unmount, and Delete. Below the toolbar is a table header with columns: Name, Mount Summary, Site Affinity, Pairing Status, Status, Size, Used, and Free. A message 'No records found' is displayed below the table. At the top right of the main area, it says 'Last refreshed at: 02/16/2019 2:37:10 PM'.

Step 2. Create a datastore and select its size. Then in the **additional step**, under the **Site Affinity** drop down select one of the two sites. then click **Create Datastore**

The dialog box is titled 'Create Datastore'. It has fields for 'Datastore Name' (containing 'DS-01'), 'Size' (set to '1 TB'), 'Block Size' (set to '8K'), and a 'Site Affinity' dropdown menu. The 'Site Affinity' menu is open, showing two options: 'DC2' and 'DC1'. The 'Create Datastore' button at the bottom is highlighted with a blue background. A red box surrounds the 'Site Affinity' dropdown menu.

Step 3. Confirm the status of the newly created datastore that it shows as **MOUNTED** and also shows its **site affinity**.

Datastores

Last refreshed at: 02/16/2019 2:41:02 PM

 Create Datastore Edit Mount Unmount Delete

Filter

	Name ^	Mount Summary	Site Affinity	Pairing Status	Status	Size	Used	Free
<input type="checkbox"/>	DS-01	MOUNTED	DC1	Unpaired	Normal	1 TB	0 B	1 TB

Showing 1 - 1 of 1