

Post Installation

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Post Installation Tasks Summary

After successful cluster configuration, perform the following additional post installation tasks to ensure that the cluster is ready to serve VMs.

Task	Reference
Create the First Datastore	Create the First Datastore, on page 2
Assign a static IP address for Live Migration and VM Network	Configuring a Static IP Address for Live Migration and VM Network, on page 3
(Optional) Constrained Delegation	(Optional) Post Installation Constrained Delegation, on page 4
Configure Local Default Paths	Configure Local Default Paths, on page 5
Configure File Share Witness	Configuring a File Share Witness, on page 6
Checking the Windows Version on the Hyper-V Host	Checking the Windows Version on the Hyper-V Host, on page 12
Validate Failover Cluster Manager	Validate Failover Cluster Manager, on page 12
Testing Upstream Failover	Testing Upstream Failover for Storage Data Network
Deploying VMs on a Hyper-V cluster	Deploying VMs on a Hyper-V cluster, on page 14
Configuring HyperFlex Share to SCVMM	Configuring HyperFlex Share to SCVMM, on page 21
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VM Migration between standalone Hyper-V and HX Hyper-V hosts.	VM Migration between Hosts, on page 23

Create the First Datastore

Before you begin using the cluster, you must create a datastore. The datastore can be created in HX Connect UI.

Step 1

Launch HX Connect UI from a browser of your choice from https://Cluster_IP/ or https://FQDN.



- **Step 2** Log in with the following credentials:
 - Username—hxadmin
 - **Password**—Use the password set during cluster installation.
- **Step 3** In the Navigation pane, select **Datastores**.

Cisco HyperFlex Connect	×		
C A Not Secure Hapso/roo	-eap-01-mgmt.ciscolab.dk/#/clusters/1	hy.ean.01	×
= 0sts Hyperriex connect		пх-еар-от	
2 Dashboard	OPERATIONAL STATUS Online		
MONITOR Events			✓ 1 Node failure can be tolerated
Activity	1 Healthy 0		
ANALYZE	CAPACITY 6.4 TB	1.1% 71.7 GB Used 6.4 TB Free	STORAGE OPTIMIZATION Of deduplication ratios will be calculated once we have sufficient information regarding cluster usage.
Lill Performance	NODES 4	4 HXAF220C-MSSX	
System Information	- •	contraged	
Datastores	IOPS Last 1 hour		Read Max: 0 Min:0 Avg: 0 Write Max: 4.8 Min:1.4 Avg: 3.05
1 Upgrade	^	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Throughput (MBps) Last 1 hour		Read Marc 0 Min:0 Arg: 0 Write Marc 0.02 Min:0.01 Arg: 0.01
		~~~~~	
	Latency (msec) Last 1 hour		Read Max: 0 Min:0 Aug: 0     Write Max: 31.59 Min:2.03 Aug: 2.69
	30 20 10		
About			Cluster Time : 04/22/2018 12:19:02 AM PDT

**Step 4** In the Work pane, click **Create Datastore**.

**Step 5** In the **Create Datastore** dialog box, complete the following fields:

Field	Description
Datastore Name	Enter a name for the datastore.
	Cisco recommends that you use all lower case characters for the datastore name.
Size	Select the size for the datastore.
Block Size	Select the block size for the datastore.

Note Cisco recommends 8K block size and as few datastores as possible to ensure the best performance.

# **Configuring a Static IP Address for Live Migration and VM Network**

Log into each Hyper-V node and execute the following commands in Power Shell to assign a static IP address for Live Migration and VM Network.

#	Command	Purpose
1	New-NetIPAddress -ifAlias "vSwitch-hx-livemigration" -IPAddress 192.168.73.21 -PrefixLength 24	Assigns a static IP address to the Live Migration network.
2	New-NetIPAddress -ifAlias "vswitch-hx-vm-network" -IPAddress 192.168.74.21 -PrefixLength 24	Assigns a static IP address to the VM network.

# **(Optional) Post Installation Constrained Delegation**

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Attention This step must be performed only if Constrained Delegation was not configured during initial installation. It is recommended that you perform this procedure using the HX Installer and not as part of post-installation.

Constrained Delegation gives granular control over impersonation. When the remote management requests are made to the Hyper-V hosts, it needs to make those requests to the storage on behalf of the caller. This is allowed if that host is trusted for delegation for the CIFS service principal of HX Storage.

Constrained Delegation requires that the option for the security setting **User Account Control: Behavior of the elevation prompt for Administrators in Admin Approval Mode** is set to **Elevate without Prompting**. This will prevent the global AD policy from overriding policy on HX OU.

Perform the following procedure *on each Hyper-V host in the HX Cluster* to configure using **Windows Active Directory Users and Computers**.

- Step 1 Click Start, click Administrative Tools, and then click Active Directory Users and Computers.
- **Step 2** Expand domain, and then expand the Computers folder.
- **Step 3** In the right pane, right-click on the computer name (for example, HX-Properties), and then click **Properties**.
- **Step 4** Click on the **Delegation** tab.
- **Step 5** Select **Trust this computer for delegation to specified services only**.
- **Step 6** Ensure that **Use any authentication protocol** is selected.
- **Step 7** Click **Add**. In the **Add Services** dialog box, click **Users or Computers**, and then browse or type the name of the Service Type (such as CIFS). Click OK. The following illustration can be used as an example.

	H	IX-EAP-1	Properties	S	? X
Location	Managed By	Object	Security	Dial-in	Attribute Editor
General	Operating System	Member (	Of Delega	ation Pas	sword Replication
Delegation is a security-sensitive operation, which allows services to act on behalf of another user.  Do not trust this computer for delegation Trust this computer for delegation to any service (Kerberos only)  Trust this computer for delegation to specified services only Use Kerberos only					
Services	any autnentication   s to which this acco	protocol unt can prese	ent delegated	credentials:	
Servic	e Type User or (	Computer	Port	Servic	e Ni
cifs	hx-eap-0	1.Ciscolab.dk			
cifs	HX-EAP-	-1			
WSM/	N HX-EAP-	1			
<		111			>
Ехра	inded		Add	Remove	•

**Step 8** Repeat these steps for all nodes.

# **Configure Local Default Paths**

Configure the default local path for the VMs to ensure that they will be on the HX cluster datastore.

Run the following commands in PowerShell:

```
$Creds = Get-Credential -Message "User Credentials" -UserName <<current logon username>>
$hosts = ("hostname1","hostname2","hostname3","hostname4")
Invoke-Command -ComputerName $hosts -Credential $Creds -ScriptBlock {Set-VMHost
-VirtualHardDiskPath
"\\HX-EAP-01.ciscolab.dk\DS1_8K" -VirtualMachinePath "\\HX-EAP-01.ciscolab.dk\DS1_8K"}
```

Note

The username should either be a Domain admin account or the HX service account. The local Administrator on the Hyper-V host will not work.

Note

Remember to change the variables to suit your environment.

### **Configuring a File Share Witness**

As a Microsoft best practice, ensure that you configure a Quorum witness datastore. Use the following procedure to configure a File Share Witness using **Failover Cluster Manager** (FCM). A File Share Witness ensures high availability of the failover cluster when nodes on the network fail. Specifically, a File Share Witness is needed to maintain a failover cluster quorum, which is designed to prevent split-brain scenarios that may happen when a partition in the network and subsets of nodes cannot communicate with each other. For more information, see "Understanding cluster and pool quorum".



Note In an HX cluster, the storage is designed to be highly available and no host should lose access to the storage. In the event that one host does stop writing to the datastore, Microsoft's storage resiliency behavior kicks in. The host repeatedly retries to establish a connection with the storage for 30 mins by default. During this time, the user VMs may be paused. If it cannot connect after 30 mins, the VM moves to a 'stopped' state.

Step 1 Launch FCM.

Step 2 In the navigation pane, select your cluster. Then, in the Actions pane, select More Actions > Configure Cluster Quorum Settings....

🝓 Failover Cluster Manager				-	o x	
File Action View Help						
Sallover Cluster Manager	Cluster HX-EAP-CLU01.ciscolab.dk		^	Actions		- Iddrei
場 HX-EAP-CLU01.ciscolab.dk	The Summany of Churter LIV EAD (110)			HX-EAP-CLU01.ciscolab.dk		
Nodes	IX-EAP-CLU01 has 0 clustered roles and 4 r	vodes.		N Configure Role		.0ad5i
> 🛃 Storage	Name: HX-EAP-CLU01.ciscolab.dk	Networks: hx-lvenigrate.hx-mgn	t, hx-storage	💐 Validate Cluster		
Its Cluster Events	Current Host Server: HX/EAP-2	Subnets: 3 IPv4 and 0 IPv6		View Validation Report		
6	Recent Cluster Events: None in the last 3 hours	Storage Spaces Direct (S20):	Disabled	P Add Node		
	Waress, Nore			Close Connection		
	Configure			Reset Recent Events		255.50
	Configure high availability for a specific clustered role, add	one or more servers (nodes), or cop	y roles from a cluster	More Actions	Configure C	luster Quorum Settings
	running Windows Server 2016 or supported previous versio	ons of Windows Server.		View	Copy Cluste	r Roles
	C Contrace Note. U Debuer Counter Social on the Web			Refresh	Shut Down (	Cluster
				Dis Properties	Destroy Chater	
	To Copy Queter Roles			Help	very en	fa du Burran
	Ouster-Aware Ubdating				Move Core o	Cluster Resources >
					Cluster-Awa	ire Updating
	Navigate     Bata     P Bata	🖉 Sazanze				puter
	Cluster Core Resources					
	Name	Status	Information			
	Server Name					
	B Marte: HX-EAP-CLU01	Online				
	Ouster Infrastructure					
	Wrtual Machine Ouster WMI	Online				
						8
This action starts a wizard that guides you through configuring	<   the cluster quorum settings.		>    ×	1		

**Step 3** The **Configure Cluster Quorum** wizard is launched. Click **Next**.

🐮 Configure Cluster	Quorum Wizard	×
Before Yo	bu Begin	
Before You Begin Select Quorum Configuration Option Select Quorum Witness Confirmation Configure Cluster Quorum Settings Summary	This wizard guides you through configuring the quorum for your failover cluster. The relevant cluster elements are the nodes and, in some quorum configurations, a disk witness or file share witness.         The quorum configuration affects the availability of your cluster. A sufficient number of cluster elements must be online, or the cluster Tosses quorum" and must stop running. Note that the full function of a cluster depends not only on the quorum, but also on the capacity of each node to support the clustered roles.         Important: Run this wizard only if you have determined that you need to change the quorum configuration for your cluster. When you create a cluster, the cluster software automatically chooses a quorum configuration that will provide the highest availability for your cluster.         To continue, click Next.         Failover Cluster Quorum and Witness Configuration Options         Do not show this page again	
	Next > Cancel	]

Step 4 In the Select Quorum Configuration Option screen, choose Select the quorum witness. Click Next.

I

	- 1
Select Quorum Configuration Option	
Before You Begin       Select a quorum configuration for your cluster.         Configuration Option       Use default quorum configuration         Select Quorum       The cluster determines quorum management options, including the quorum witness.         Configure Cluster Quorum Settings       Select the quorum witness         Summary       You can add or change the quorum witness. The cluster determines the other quorum management options, including the quorum witness.         On Advanced quorum configuration       You determine the quorum management options, including the quorum witness.         Failover Cluster Quorum and Witness Configuration Options       Failover Cluster Quorum and Witness Configuration Options	

**Step 5** In the Select Quorum Witness screen, choose Configure a file share witness. Click Next.

Configure Cluste	r Quorum Wizard	×
Select Q	uorum Witness	
Before You Begin Select Quorum Configuration Option	Select a quorum witness option to add or change the quorum witness for your cluster configuration. As a best practice, configure a quorum witness to help achieve the highest availability of the cluster.	
Select Quorum Witness	<ul> <li>Configure a disk witness</li> <li>Adds a quorum vote of the disk witness</li> </ul>	
Configure File Share Witness Confirmation	<ul> <li>Configure a file share witness</li> <li>Adds a quorum vote of the file share witness</li> </ul>	
Configure Cluster Quorum Settings Summary	<ul> <li>Configure a cloud witness</li> <li>Adds a quorum vote of the cloud witness</li> <li>Do not configure a quorum witness</li> </ul>	
	Failover Cluster Quorum and Witness Configuration Options	
	< Previous Next > Cancel	

**Step 6** In the **Configure File Share Witness** screen, specify the path to the File Share. Click **Next**.

🛍 Configure Cluster	Quorum Wizard	×
Configure	e File Share Witness	
Before You Begin Select Quorum Configuration Option	Please select a file share that will be used by the file share witness resource. This file share must not be hosted by this cluster. It can be made more available by hosting it on another cluster.	
Select Quorum Witness	File Share Path:	
Configure File Share Witness	\\HX-EAP-01.ciscolab.dk\DS1_8K Browse	]
Confirmation		
Configure Cluster Quorum Settings		
Summary		
	< Previous Next > Cancel	

**Step 7** In the **Confirmation** screen, click **Next**.

🐮 Configure Cluster	r Quorum Wizard	×
Configure	e Cluster Quorum Settings	
Before You Begin	Please wait while the quorum settings are configured.	
Select Quorum Configuration Option		
Select Quorum Witness		
Configure File Share Witness		
Confirmation		
Configure Cluster Quorum Settings		
Summary		
	Cancel	0.544

**Step 8** In the **Summary** screen, click **Finish** to close the wizard.

**Step 9** Alternatively, you can configure a file share witness using Windows PowerShell.

- a) Open a Windows PowerShell console as an administrator.
- b) Type Set-ClusterQuorum -FileShareWitness <File Share Witness Path>
- c) You should now see the File Share Witness configured for your cluster. When you navigate to your File Share Witness share you will see a folder created for your cluster.

<ul> <li>Cluster Core Resources</li> </ul>			
Name	Status	Information	^
Name: HX-EAP-CLU01	Online		
Cluster Infrastructure			
🗟 Virtual Machine Cluster WMI	Online		
File Share Witness			
🔜 File Share Witness (\\HX-EAP-01.ciscolab.dk\DS1_8K)	( Online		~
<			>

Post Installation

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### Checking the Windows Version on the Hyper-V Host

Follow the steps below to check the version of Windows installed.

- **Step 1** Log into the Hyper-V server as an administrator or HX Service Administrator account.
- **Step 2** In Powershell, run the following command:

C:\Users\adminhyperflex> Get-ItemProperty 'HKLM:\SOFTWARE\Microsoft\Windows NT\CurrentVersion'

**Step 3** Verify the installed Windows version in the result of the command output.

Following is a sample output if you have installed Windows Server 2016.

```
ProductName : Windows Server 2016 Datacenter
ReleaseId : 1607
SoftwareType : System
UBR : 447
```

Following is a sample output if you have installed Windows Server 2019.

```
ProductName : Windows Server 2019 Datacenter
ReleaseId : 1809
SoftwareType : System
UBR : 107
```

- **Step 4** In addition, verify the following:
  - For Windows Server 2016 Datacenter Core and Desktop Experience, the Windows 2016 ISO image should be Update Build Revision (UBR) 1884 at a minimum. If not, upgrade the HyperV servers to the latest update. Refer to the *Microsoft Knowledge Base article: KB4467691*.
  - If you are using a standalone Hyper-V manager outside HX nodes, then the Hyper-V management server should have a version UBR number greater than 1884. You must upgrade the Hyper-V management server if the version is 1884 or earlier.
  - For Windows Server 2019 Desktop Experience, the Windows 2019 ISO image should be Update Build Revision (UBR) 107 at a minimum.

## Validate Failover Cluster Manager

Step 1 Open the Failover Cluster Manager and click Validate Cluster and then click Next.

HYPER4-FO.hx.local Configure Role Validate Cluster View Validation Report
Configure Role Validate Cluster View Validation Report
Validate Cluster
1 View Validation Report
Add Node
Close Connection
Reset Recent Events
More Actions
View
C Refresh
Di Properties
🛛 Help

Step 2

**p 2** Select **Run all tests** (**recommended**) and then click **Next**.

💐 Validate a Config	guration Wizard X
Testing	Options
Before You Begin	Choose between running all tests or running selected tests.
Testing Options Confirmation	The tests examine the Cluster Configuration, Hyper-V Configuration, Inventory, Network, Storage, and System Configuration.
Validating	Microsoft supports a cluster solution only if the complete configuration (servers, network, and storage) can pass all tests in this wisard. In addition, all hardware components in the cluster solution must be "Certified
Summary	for Windows Server 2016."      Run all tests (recommended)      Run only tests I select
	More about cluster validation tests Previous   Next >   Cancel

After clicking Next, the validation procedure starts running.

**Step 3** Verify that there are no validation failures. If there are any validation failures, click **View Report** and address any results that show **Failed**.

Validate a Config	uration Wizard			
Validatin	Ig			
ore You Begin ting Options	The following v amount of time	ralidation tests are running. Depending on the test select	tion, this may take a significa	ant
ofirmation	Progress	Test	Result	^
detter.	100%	List Environment Variables	The test passed.	
idating	100%	List Host Guardian Service client configuration	The test passed.	
mmary	100%	List Memory Information	The test passed.	
	100%	List Operating System Information	The test passed.	
	100%	List Plug and Play Devices	The test passed.	
	100%	List Running Processes	The test passed.	
	100%	List Services Information	The test passed.	
	0%	List Software Updates	Test is currently ru	nniı 🗸
	<			>

### **Deploying VMs on a Hyper-V cluster**

Deploying VMs on a Hyper-V cluster is a multi-step process as described below:

- Install Remote Server Administration Tools (RSAT) on the management station/host—You must install administrator tools such as Hyper-V Manager and Failover Cluster Manager as features Server Manager. For more information see, Install RSAT tools on the Management Station or Host, on page 14.
- Manage VMs—Connecting to all the Hyper-V nodes in the HX cluster and creating new VMs can be accomplished using either Hyper-V Manager or Failover Cluster Manager. For more information see, Creating VMs using Hyper-V Manager, on page 19.

### Install RSAT tools on the Management Station or Host

To install RSAT, complete the following steps:

#### Before you begin

RSAT tool installation requires the following:

- A server from which you can install, manage, monitor the VMs on the Hyper-V HX cluster.
- · Administrator tools such as Hyper-V Manager, FCM, PowerShell, SCVMM.

### Step 1 In Server Manager, click Manage and then select Add Roles and Features. The Add Roles and Features wizard appears.



**Step 2** In the **Before you begin** page, click **Next**.

Server Ma	nager • Dashboard • (3)   1' Manage Tools View
board I Server Add Roles and Features Wizard efore you begin Installation Type Server Selection Server Selection Server Roles Reatures Confirmation Results	WELCOME TO SERVER MANAGER            –

- Step 3 In the Select installation type page, select Role-based or feature-based installation. Click Next.
- **Step 4** In the **Server Selection** page, select your server from the list. This server belongs to the same domain as the HX cluster. Click **Next**.

Server Ma	nager 🖲 Dashboard 🛛 🔹 🕄 🖡 Manage Tools View	Help
Dashboard	WELCOME TO SERVER MANAGER	
Local Server		
📥 Add Roles and Features Wizard	- 🗆 X	
	DECTINATION SERVER	
Select destination	Server Honolulu HXHVDOM LOCAL	
	Select a server or a virtual hard disk on which to install roles and features.	
Before You Begin		1
Installation Type	<ul> <li>Select a server from the server pool</li> <li>Select a virtual hard disk</li> </ul>	
Server Roles	Sapuer Pool	
Features		
	Filter:	
	Name IP Address Operating System	1
	Honolulu HXHVDOM LO 10.29.149.224 Microsoft Windows Server 2016 Datacenter Evaluation	
	1 Computer(s) found	
	This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Server command in Server Manager Offline renews and	
	newly-added servers from which data collection is still incomplete are not shown.	
	2	

- **Step 5** In the **Select Roles** page, click **Next**.
- Step 6
   In the Features page, select Remote Server Administration Tools > Feature Administration Tools > Failover

   Clustering Tools, and Role Administration Tools > Hyper-V Management Tools > Failover Clustering Tools. Click Next.

Server Ma		nanaye noos view reep
Dashboard pical Server	WELCOME TO SERVER MANAGER	
Add Roles and Features Wizard		- 0 ×
Select features		DESTINATION SERVER Honoulu HCHVDOM LOCAL
Before You Begin Installation Type	Select one or more features to install on the selected server. Features	Description
Server Roles Features	Quality Windows Audio Video Experience RAS Connection Manager Administration Kit (CM/ Remote Assistance	Failover Clustering Tools include the Failover Cluster Manager snap-in, the Cluster-Aware Updating interface, and the Failover Cluster
Confirmation Feods	Remote Differential Compression     Remote Differential Compression     Server Administration Tools     SMTP Server Tools     SMTP Server Tools     BittS Server Extensions Tools     Usac-mentercompt LLDP Tools     Vial-mentercompt LLDP Tools	module for Windows RowerShell. Additional tools are the Failover Cluster Automation Server and the Failover Cluster Command Interface.

**Step 7** In the **Confirmation** page, click **Install**. Leave the **Restart the destination server if required** checkbox unchecked.

Step 8 The Installation Progress page displays installation progress. When installation completes, click Close to exit the wizard.

)⊙ ∗ Server Ma	inager 🖲 Dashboard 🛛 🔹 🕄 🖌 Manage Tools View	He
Dashboard	WELCOME TO SERVER MANAGER	
Local Server		-1
🚵 Add Roles and Features Wizard	×	
Installation progre	DESTINATION SERVER	
Before You Begin	View installation progress	
	Feature installation	
	Installation succeeded on Honolulu.HXHVDOMLDCAL	
	Remote Server Administration Tools	
Confirmation	Feature Administration Tools	
Results	Failover Clustering loois Failover Cluster Management Tools	
	Failover Cluster Module for Windows PowerShell	
	Role Administration Tools	
	Hyper-V Management Tools	
	Hyper-V Module for Windows Powershell Hyper-V GUI Management Tools	
	You can close this wizard without interrupting running tasks. View task progress or open this	
	page again by clicking Notifications in the command bar, and then Task Details.	
	Export configuration settings	

### Managing VMs using Hyper-V Manager

#### **Connecting to Hyper-V Nodes**

Complete the following steps to connect to all the Hyper-V nodes in the Hyper-V HX Cluster.

- Step 1 Open the Server Manager dashboard and click Tools. Then, click Hyper-V Manager. The Hyper-V Manager console appears.
- Step 2 In the left pane, select Hyper-V Manager and click Connect to Server....
- **Step 3** In the **Select Computer** dialog box, select **Another computer** and type in the name of the Hyper-V node (for example, HXHV1) that belongs to the Hyper-V cluster. Click **OK**.
- **Step 4** Repeat all of the above steps for each node in the Hyper-V HX cluster.
  - Note For a fresh installation, the storage controller virtual machine (StCtlVM) in the only virtual machine that appears in **Virtual Machines** pane in the **Hyper-V Manager** console. Virtual machines appear in the list under this pane as they are added in each node. For more information on how to create VMs using Hyper-V Manager, see: Creating VMs using Hyper-V Manager, on page 19

### **Creating VMs using Hyper-V Manager**

Complete the following steps to create VMs using Hyper-V Manager.

Step 1	Open Hyper-V Manager.
Step 2	Select the Hyper-V server, and right click and select <b>New</b> > <b>Create a virtual machine</b> . The <b>Hyper-V Manager New Virtual Machine</b> wizard displays.
Step 3	In the Before you Begin page, click Next.
Step 4	In the <b>Specify Name and Location</b> page, enter a name for the virtual machine configuration file. The location for the virtual machine click <b>Next</b> .
Step 5	In the Specify Generation page, choose either Generation 1 or Generation 2.
Step 6	In the Assign Memory page, set the start memory value 2048 MB. Click Next.
Step 7	In the <b>Configure Networking</b> page, select a network connection for the virtual machine to use from a list of existing virtual switches.
Step 8	In the <b>Connect Virtual Hard Disk</b> page, select <b>Create a Virtual Hard Disk</b> page, and enter the name, location and size for the virtual hard disk. Click <b>Next</b> .
Step 9	In the Installation Options, you can leave the default option Install an operating system later selected. Click Next.
Step 10	In the Summary page, verify that the list of options displayed are correct. Click Finish.
Step 11	In Hyper-V Manager, right-click the virtual machine and click Connect.
Step 12	In the Virtual Machine Connection window, select Action > Start.

### Managing VMs using Failover Cluster Manager

### **Creating VMs using Failover Cluster Manager**

Complete the following steps to connect to the Windows Failover cluster (installed along with the Hyper-V HX cluster) and create new VMs using Failover Cluster Manager.

Step 1	In the Failover Cluster Manager console, under the Actions pane, click Connect to Server
Step 2	In the Select Cluster dialog box, click Browse to navigate to the Hyper-V HX cluster. Click OK.
Step 3	In the left pane, click Roles > Virtual Machines > New Virtual Machines
Step 4	In the <b>New Virtual Machine</b> dialog box, search and select the Hyper-V node where you wish to create new VMs. Click <b>OK</b> . The <b>New Virtual Machine</b> wizard appears.
Step 5	In the Before You Begin page, click Next.
Step 6	In the <b>Specify Name and Location</b> page, choose a name for the VM, and specify the location or drive where the VM will be stored. Click <b>Next</b> .
Step 7	In the <b>Specify Generation</b> page, select the generation of virtual machine you want to use (Generation 1 or Generation 2) and click <b>Next</b> .
Step 8	In the Assign Memory page, enter the amount of memory that you want for the VM. Click Next.
Step 9	In the Connect Virtual Hard Disk page, enter the name, location and hard drive size. Click Next.
Step 10	In the Installation Options page, select the install location for the OS. Click Next.
Step 11	In the <b>Summary</b> page, review the options selected and click <b>Finish</b> .
Step 12	Right-click on the newly created VM, and click <b>Connect</b> . In the <b>Virtual Machine Connection</b> window, click <b>Start</b> .

**Note** By default, the Failover Cluster Manager will assign a default name for the 4 networks created. It is recommended to rename these network names.

#### What to do next

To enable redirection of datastore access requests from outside the HX cluster boundary through the management path, add the following entry to the hosts file on the (remote) machine running Hyper-V manager, Failover Cluster Manager, or SCVMM Console. For example, edit C:\Windows\System32\drivers\etc\hosts and add:

```
cluster_mgmt_ip \\smb_namespace_name\datastore_name
```

```
10.10.10.100 \\hxcluster.company.com\ds1
```

### **Opening Data Path Access to the SCVMM Host**

To open data path access to the SCVMM host, complete the following steps:

### Before you begin

Beginning with Cisco HX Release 4.5 the FixScymmAccess.py script must be invoked with python3.

Note FixScvmmAccess.py requires root access.

**Step 1** Launch a secure shell login session to the cluster management IP address.

**Step 2** Determine the ensemble members in the cluster by reviewing the following information:

```
root@ucs900scvm:~# cat /etc/springpath/storfs.cfg | grep crmZKEnsemble
crmZKEnsemble=10.107.48.14:2181,10.107.48.15:2181,10.107.48.16:2181
root@ucs900scvm:~#
```

- **Step 3** From the current SSH login session, launch an SSH session to any of the IP addresses displayed for the **crmZKEnsemble** parameter.
- Step 4 Run the following script without any additional parameters: python3 /opt/springpath/storfs-hyperv/FixScvmmAccess.py The script prompts you to enter the SCVMM IP address.
- **Step 5** Add the SCVMM IP address and exit the SSH session.

# **Configuring HyperFlex Share to SCVMM**

#### Before you begin

Edit the /etc/hosts file on the host running the VMM admin console to resolve the **smb** access point to the cluster management IP address of HyperFlex cluster. This IP address is typically used to launch Cisco HX Connect.

```
The complete path is : C:\Windows\System32\drivers\etc
Open the "hosts" file in the above directory in Notepad or any other text editor and add
the following entry in the bottom :
<CMIP> <smb_share_namespace>
CMIP will be the Cluster Management IP which is usually used to open HX connect UI.
For example,
10.10.10.1 hxhvsmb.example.com
```



**Note** For SCVMM Run As account, it is recommended to use **hxadmin** (or any other Domain Admin account which has **FULL** permissions) for the corresponding HyperFlex Organization Unit (OU) in the Active Directory (AD).

- Step 1 Add the cluster to System Center Virtual Machine Manager (VMM).
- **Step 2** In the VMM console, go to **Fabric** > **Servers** > **All Hosts**.
- **Step 3** Right-click on the cluster and select **Properties**.



**Step 4** In the **Properties** window, right-click **File Share Storage** > **Add File Storage**.

Status       The following file shares will be available as storage locations for VMs deployed to nodes in this cluster.         Awailable Storage       File Share Path       Accress Status       Classification       Free Strace       Total Capacity         Shared Volumes       Image: Classification       Specify a valid SMB share path to use for VM       GB       1,024.00 GB         Virtual Switches       Specify a valid SMB share path to use for VM       GB       1,024.00 GB         Custom Properties       File share path:       Whyperv-team.hv-ad1.local/ds1       Image: Classification         For managed shares, VMM grants file share to this cluster, select a managed file share.       For managed shares, VMM grants file share and the VMM cluster management account for the virtualization cluster and the VMM cluster management account. For unmanaged file share, ensure that the Active Directory computer account for the virtualization cluster and the VMM cluster management account. For unmanaged file share.       To bring a file share into management in the VMM console, open the Fabric workspace, click the Providers node, and then click "Add Storage Device."         OK       Cancel	General	File Share Sto	orage					
Image: Storage       File Share Bath       Access Statuc       Classification       Fire Space       Total Capacity         Intersection       Specify a valid SMB share path to use for VM       GB       1,024.00 GB         Share Storage       Specify a valid SMB share path to use for VM       GB       1,024.00 GB         Wainable Storage       Specify a valid SMB share path to use for VM       GB       1,024.00 GB         Wainable Storage       File share path:       Whyperv-team.hv-ad1.locall.ds1       v         To register a file share to this cluster, select a managed file share from the list or enter the UNC path for an unmanaged file share.       For managed shares, VMM grants file share access to the Active Directory computer account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account have access to the file share.       To bring a file share into managed file share.         To bring a file share into management in the VMM cluster management account have access to the file share.       To bring a file share into management in the VMM cluster and the VMM cluster management.         OK       Cancel       Cancel       Repair       Add.       Remove	itatus	The following file	e shares will be av	ailable as storage	locations for VM	Is deploy	ed to not	des in this cluster:
Wallable Storage       If Add File Share       X       GB       1,024.00 GB         ile Share Storage       Specify a valid SMB share path to use for VM       deployment         hared Volumes       File share path:       Whyperv-team.hv-ad1.local/ds1       V         To register a file share to this cluster, select a managed file share from the list or enter the UNC path for an unmanaged file share.       For managed shares, VMM grants file share access to the Active Directory computer account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account have access to the file share.         To bring a file share into management in the VMM console, open the Fabric workspace, click the Providers node, and then click "Add Storage Device."         OK       Cancel	in the famous	File Share Path		Access Status	Classification	Free S	nace	Total Capacity
File Share Storage       Specify a valid SMB share path to use for VM deployment         Shared Volumes       If the share path: Whyperv-team.hv-ad1.local/ds1         Virtual Switches       To register a file share to this cluster, select a managed file share from the list or enter the UNC path for an unmanaged file share.         For managed shares, VMM grants file share access to the Active Directory computer account for the virtualization cluster and the VMM cluster management account. For unmanaged file share.         To bring a file share into management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster         To bring a file share into management: in the VMM console, open the Fabric workspace, click the Providers node, and then click "Add Storage Device."         OK       Cancel         Repair       Add.	Available Storage	Add File Share				×	GB	1,024.00 GB
Shared Volumes Virtual Switches Virtual Switches Custom Properties File share path: Whyperv-team.hv-ad1.local/ds1 To register a file share to this cluster, select a managed file share from the list or enter the UNC path for an unmanaged file share. For managed shares, VMM grants file share access to the Active Directory computer account. For unmanaged file share, ensure that the Active Directory computer account for the virtualization cluster and the VMM cluster management account have access to the file share. To bring a file share into management in the VMM console, open the Fabric workspace, click the Providers node, and then click "Add Storage Device."  Repair Add. Remove	File Share Storage		Louis 1		10.1			
Shared Volumes       deployment         Virtual Switches       File share path: Whyperv-team.hv-ad1.local/ds1 v         Custom Properties       To register a file share to this cluster, select a managed file share from the list or enter the UNC path for an unmanaged file share.         For managed shares, VMM grants file share access to the Active Directory computer account for the virtualization cluster and the VMM cluster management account. For unmanaged file shares, ensure that the Active Directory computer account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster and the VMM cluster and the VMM cluster management account for the virtualization cluster and the VMM cl		Specify a value	d SMB share	path to use fo	or VM			
Virtual Switches File share path: Whyperv-team.hv-ad1.local/ds1  To register a file share to this cluster, select a managed file share from the list or enter the UNC path for an unmanaged file share. For managed shares, VMM grants file share access to the Active Directory computer account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account for the virtualization cluster and the VMM cluster management account have access to the file share. To bring a file share into management in the VMM console, open the Fabric workspace, click the Providers node, and then Click "Add Storage Device."  Repair Add. Remove	Shared Volumes	deployment						
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Repair Add Remove		For managed sha computer accoun management acco Directory comput cluster management	res, VMM grants in the for the virtualiza- ount. For unmana- ter account for the ent account have are into managem	file share access to tion cluster and th ged file shares, en e virtualization clu access to the file s ent: in the VMM c	the Active Direct the VMM cluster issure that the Active That the Active ster and the VMI share.	tive M Fabric		
		To bring a file sha workspace, click t	the Providers nod	e, and then click "/	OK Ca	incel		

**Step 5** When mapping completes, the share is added as shown in the screenshot below.

ucs900wfc.HV-AD1.local Pro	operties					×
General	File Share Storage					
Status	The following file shares will be ava	ilable as storage	locations for VMs	deployed to no	des in this cluster:	
	File Share Path	Access Status	Classification	Free Space	Total Capacity	
Available Storage	Whyperv-team.hv-ad1.local\ds1	0	Remote Storage	897.12 GB	1,024.00 GB	
File Share Storage	1					1
Shared Volu File Share Storage						
Virtual Switches						
Custom Properties						
			Repai	r Add	Remove	
				_	_	
View Script				OK	Cancel	

**Step 6** Click **OK** and exit VMM. The HyperFlex Share is now mapped and VMs can be created on this share using SCVMM.

### **Re-enabling Windows Defender**

Run the following commands to re-enable Windows Defender.

#### Install Defender from PowerShell

Install-WindowsFeature -Name Windows-Defender

#### (Optional) Install Defender GUI from PowerShell

Install-WindowsFeature -Name Windows-Defender-GUI

### VM Migration between Hosts

#### Before you begin

Follow the steps below to perform VM migration between a standalone host and an HX Hyper-V host. Prior to performing this procedure, make sure that your environment meets the following prerequisites:

- The source and destination computers either belong to the same Active Directory domain or belong to domains that trust each other.
- In Failover Cluster Manager, configure Live Migration settings on both the source and destination Hyper-V hosts.
- Step 1 Open Hyper-V Manager.
- **Step 2** In the navigation pane, select, **HXHVINFRA2**.
- **Step 3** In the Action pane, click **Hyper-V Settings** > Live Migrations.
- **Step 4** In the **Live Migrations** pane, check **Enable incoming and outgoing live migrations**.
- **Step 5** Under **Incoming live migrations**, select **Use the IP addresses for live migration**. Click **Add**, and then click **OK**. This opens the Move Wizard.
- **Step 6** Use the wizard pages to choose the type of move, destination server, and options.
- Step 7 On the Summary page, review your choices and then click Finish.

# **Testing Upstream Failover for Storage Data Network**

Configure upstream (top-of-rack (ToR)) so storage data network jumbo frames communicate between FI-A and FI-B.



**Note** In some cases 1500 based frames are used because you are not able to configure ToR for jumbo frames as the cluster was previously configured to use 1500 sized frames. The ping test enables you to test basic 1500 frame connectivity across the ToR.

Step 1 Log into a single Hyper-V Host as HX Service account.

- Step 2 Open Server Manager > Local Server.
- Step 3 Click on Enabled for NIC Teaming.



**Step 4** Right mouse click on storage-data-a and select **Disable**.

ADAPTERS AND	INTERFACE	S	
Network Adapters	Team Interfa	ces	
Adapter	Speed	d St	ate Reason
hv-livemigrate-a	40 Gb	ops 🕥	Active
hv-livemigrate-b	40 Gb	ops 🔿	Standby
▲ team-hx-sto	orage-data (	2)	
storage-data-a	40 Gb	ops 🛈	Add to New Team
storage-data-b	40 Gb	ops 🔿	Remove From Team "team-hx-storage-data"
Name	Sent	Received	Disable
Bytes:	1,851,401	1,504,781	Properties
Packets:	7,709	8,259	
Packets discarded:	0	0	
Bytes/Second:	181,740	175,152	
Packets/Second:	455	478	Activat

This forces the storage-data-b interface on FI-B to become the active path for data.

L

ADAPTERS AND IN	TERFACES			TASKS 🔻
Network Adapters Te	am Interfaces			
Adapter	Speed	State	Reason	
hv-livemigrate-a	40 Gbps	Active		1
hv-livemigrate-b	40 Gbps	Standby		
▲ team-hx-stora	ge-data (2)			
storage-data-a	Disabled	🗙 Faulted	Not found	
storage-data-b	40 Gbps	Active	Active storag	ge data path

Test jumbo pings from local powershell window to remote host storage data ip addresses. For example:

Step 5

# ping -f -l 8000 <data ip address of other hosts>



**Step 6** Reset the storage-data-a team interface to Active by right mouse-clicking and selecting **Enable**.

ADAPTERS AND INT	TERFACES			TASKS 🔻
Network Adapters Tea	m Interfaces			
Adapter	Speed	State	Reason	
hv-livemigrate-a	Add to New	Team		
hv-livemigrate-b	Remove Fro	m Team "tea	m-hx-livemigration"	
▲ team-hx-sto	Enable			
storage-data-a	Properties			
storage-data-b	40 Gbps	<li>Stand</li>	by	

ADAPTERS AND INTE	RFACES			TASKS	•
Network Adapters Team	Interfaces			mone	
Adapter	Speed	State	Reason		
hv-livemigrate-a	40 Gbps	Active			
hv-livemigrate-b	40 Gbps	Standby	Original Configura	tion	
team-hx-storage-	data (2)				
storage-data-a	40 Gbps	<li>Active</li>			
storage-data-b	40 Gbps	Standby			~

# **Adding VLANs after Installation**

To add a VLAN to your cluster after installation is complete, perform the following:

Step 1 In Cisco UCS Manager, navigate to LAN > LAN Cloud > VLANs:

• UCS Manager			8 V O	·			• •		9
- UN	LAN / LAN Cloud / VLANs								
* LAN Coud	Ty Advanced Filter + Export	n @ Prist							4
Fabric A	Name	0	Туре	Transport	Native	VLAN Sharing	Primary VLAN Name	Multicast Policy Name	_
fabric B	VLAN default (1)	1	Lan	Ether	Yes	None			
GoS System Class	VLAN he inbend-cim	530	Lan	Ether	No	None		HyperFiex	
<ul> <li>LAN Pin Groups</li> </ul>	VLAN he-inband-cim	\$70	Lan	Ether	No	None		HyperFiex	
Threshold Policies	VLAN he-inband-mp	240	Lan	Ether	No	None		HyperFiex	
<ul> <li>VLAN Groups</li> </ul>	VLAN tw-inbend-mg.	240	Lan	Dher	740	None		HyperFiex	
VLAN	18 MV for Johnson	910.	1 an	 () A01	Course (0 tota	Marca .		Maran Plan	
VLAN tw-inband-cimc-570 (570) VLAN tw-inband-mgmt (240) VLAN tw-inband-mgmt-1024 (240	General Org Permis Fault Summary	sions VLAN Group N	Antonto Faulto Ex	ens.					
VLAN hx-inband-mgmt-210 (210) VLAN hx-inband-mgmt-240 (240) VLAN hx-inband-mgmt-ucs1021 ( VLAN hx-inband-mgt-810 (810)	Actions	<u></u>	Name Native VLAN Network Type	default Yes Lan		VLANID   1 Fabric ID   Deal If Type   Vesal			
VLAN he-inteard-rep3-970 (310) VLAN he-interrigizes (340) VLAN he-interrigizes-440 (443) VLAN he-interrigizes-440 (443) VLAN he-interrigizes-440 (543) VLAN he-interrigizes-440 (543) VLAN he-interrigize-450 (543)			Cener Muticast Policy Name Muticast Policy Instan Sharing Tupe	I Local	Nefault Taolated Community	Cruste Multicast Policy			

**Step 2** To add a new VLAN, click on the **Add** sign at the bottom of the VLAN table:

	VLANs							
VLAN ucs1110-tw-inband-cimc (570)								
VLAN uce1110-hx-inband-mgmt (240)	S Advanced Fiber IT Expert I Print							
VLAN uce1110-tw-liverrigrate (540)	Name	0	Туре	Transport	Native	VLAN Sharing	Primary VLAN Name	Multicast Policy Name
VLAN uce1110-hx-storage-data (340)	VLAN ucs1118-tx-inband-cime (S70)	570	Lan	Ether	No	None		HyperFlex
VLAN uce1110-wm-network (440)	VLAN ucs1118-tw-inband-mpmt (240)	240	Lan	Ether	No	None		HyperFlex
VLAN uce1110-sm-network440 (440)	VLAN ucs1118-tw-liverrigrate (540)	540	Lan	Ether	No	None		HyperFlex
VLAN ucs1110-stt-network441 (441)	VLAN ucs1118-tx-storage-data (340)	340	Lan	Ether	No	None		HyperFlex
VLAN uce1118-tw-inbend-cimc (570)	VLAN ucs1118-fw-vmotion (540)	540	Lan	Ether	No	None		Hyperfiles
VLAN uce1118-tw-inbend-mpmt (240)	VLAN ucc1118-um-network (440)	440	Lan	Ether	No	None		HyperFlex
VLAN ucs1118-tw-liverrigrate (540)	VLAN: ucs1118-um-network440 (440)	440	Lan	Ether	No	None		HyperFlex
VLAN ucs1118-tw-storage-data (340)	VLAN uce1118-vm-network441 (441)	441	Lan	Ether	No	None		HyperFlex
VLAN ucs1118-tw-vmction (540)				Qualit II De	inte O tels			
VLAN ucs1118-um-network (440)				9				
VLAN ucs1118-utt-network440 (440)	Outails							
VLAN uce1118-sm-network441 (441)	Council Confirmations 14.45		-					
VLAN vm-network (440)	Careful Oprevisions Solid	Croup Meridian	ing raus to	410				
VLAN vm-network-1021 (440)	Fault Summary		Properties					
VLAN vm-network-1024 (440)	@ @ @ (	2	Name	and the second of		14.41		
VLAN vm-network-410 (410)						10110		
VLAN vm-network-640 (640)			Native VLAN	NO		Fabric ID : Deef		
VLAN vm-network410 (410)	Actions		Network Type	Lan		it Type : Virtual		
VLAN vm-network440 (440)			Locale	External		Transport Type : Ether		
VLAN vm-network57 (57)	Modify VLAN One Permissions		Ounar	- I and				

Step 3 Enter the VLAN Name/Prefix and VLAN IDs:

cisco.	UCS Manager		8 😨 🚇 8			
-			0 40 7 7			
~		CAN / CAN CLOUD / YEARS				
	VLAN ucs1110-hx-inband-cime (570)	1.00				
	VLAN ucs1110-fix-inband-mgmt (240)	Create VI ANS		(1 ×		0
-	VLAN ucs1110-hx-luemigrate (540)	Name Condition V Don't S		2 C .	aring Primary VLAN Name	Multicast Policy Name
	VLAN ucs1110-hx-storage-data (340)	VLAN uss1 VLAN Name/Prefx : ucs1118-vm-ne	twork442			Hyperfiles
	VLAN ucs1110-vm-network (440)	VLAN user Multicast Policy Name : +net set>	Create Multicast Policy			HyperFiex.
	VLAN ucs1110-um-network440 (440)	VLAN unst . Common/Global . Fabric A . Fabric B	Both Fabrics Configured Differently			Hyperfiles
_	VLAN ucs1110-vm-network41 (441)	VLAN ucs1 You are creating global VLANs that map to the	same VLAN IDs in all available fabrics.			Hyperflex
-	VLAN ucs1118-tx-resend-cime (S70)	VLAN user VLAN IDs 1 442	9, 29,30,40-45, 23, 23, 23,34-45,			HyperFiex
=	VLAN ucs1110-ha-meano-mpril (24c)	VLAN until Sharing Type : None O Primary O Inc	Reted Community			Hyperfiles
	VLAN ucs1118-ba-storage-data (342)	VLAN ucs1				HyperFiex
40	VLAN ucs1118-ha-smotion (540)	WLAN unit				Hoofiex
	VLAN ucs1118-vm-network (440)	Barth Martin				
	VLAN ucs1118-vm-network440 (440)					
	VEAN ucs1118-vm-network441 (441)	Details				
	VLAN wm-network (A40)	General				
	VLAN wm-network-1021 (440)					1
	VLAN wm-network - 1024 (440)	Fmail Surren				
	VLAN wm-network-410 (410)	8			641	
	VLAN wm-network-440 (440)	0	Che	ck Overlap (K) Cancel		
	VLAN vm-network#10 (#10)				intual .	
	VLAN VIN-NETWORKED (K4D)	Actions				
	Acclarces					
	Fabric A					
cisco	UCS Manager		8 10 40 21 21		••	399996
m.	Al ,	LAN / LAN Cloud / VLANs				
	M.AN use 1110-be-industriation (120)	VLANs				
	VLAN uss1110-te-intent-more (240)	To Advanced Filter + Export + Print				0
**	VLAN ucs1110-he-liverrigrate (540)	Name • 10	Type Transport	Native VLAN S	naring Primary VLAN Name	Multicest Policy Name
-	VLAN ucs1110-tw-storage-data (340)	ADAR DELLIGATION CONTRACTOR LINES	Car Coar	No No		regular rega
	VLAN ucs1110-um-network (440)		Lan Inter	NO NOTO		Payoernes
	VLAN ucs1110-um-network440 (440)	MAN until 118-ba-based and 1.400 540	Las Ettar	No. No.		Hosefler
	VLAN ucs1110-vm-network481 (441)	VLAN urs 1118-te-stream -teta (340) 340	Lan Eller	No. None		Huterflex
=	VLAN uce1118-te-inband-cimc (570)	VLAN ucs1118-tx-senotion (540) 540	Lan (the	No Note		HyperFlex
-	VLAN ucs1118-tw-inband-ingent (240)	WAN ucs1118-un-network (in		Norma		HyperFlex
	VLAN ucs1118-he-liverrigrate (540)	VAN uss1118-um-retwork44		X		HyperFlex
40	VLAN uce1118-tw-storage-data (140)	VLAN unit118-um-networkat	ed fabric/lan/net-ucs1118-um-network442. LAN will flow on all uples node which are not on	n of any Network Croup. None		HyperFlex
	VLAN uns1118-um-network (ABS)		and the second sec	-		
	VLAN ucs1118-um-network480 (440)			( ok		
	VLAN uce1118-vm-network441 (441)	Details				
	VLAN ucs1118-um-network642 (442)		to the terms			
	VLAN vm-network (440)	Contractions Afree Goals Members	- 110 1995			
	VLAN vm-network-1021 (440)	Fault Summary P	roperties			
	VLAN vm-network-1024 (640)	8 0 0 0	iame default	VLANID	1	
	VLAN vm-network-#10 (#10)	0 0 0 0	Native VLAN : Yes	Fabre D I	Nat .	
	VLAN vm-network-640 (640)		Vetwork Type : Lan	f Tupe	fetual	
	VEAN vm-network410 (410)	Actions		- 1		
	VLAN VIII- NEDWORKED (EAS)					
	Acceleration					
L					Contraction of the local division of the loc	And a subscription of the local division of

**Step 4** Tag the new VLAN on the required Hyper-V VMs.

• There is no additional Hyper-V networking configuration needed.