

Installation

• Installation Tasks Summary, on page 1

Installation Tasks Summary

The following table summarizes the steps to complete Microsoft Hyper-V installation.

Task	Reference
Deploy HX Data Platform Installer	Step 1 - Deploying HX Data Platform Installer, on page 1
Configure Cisco UCS Manager <i>(using HX Data Platform Installer)</i>	Step 2 - Cisco UCS Manager Configuration, on page 9
Install Microsoft Windows Server	Step 3 - Microsoft OS Installation, on page 18
Hypervisor configuration, HX Data Platform and Cluster deployment	Step 4 - Hypervisor Configuration, HX Data Platform and Cluster Deployment , on page 29

Step 1 - Deploying HX Data Platform Installer

Deploy HX Data Platform Installer using **Microsoft Hyper-V Manager** to create a HX Data Platform Installer virtual machine.

Procedure

Step 1	Locate and download the HX Data Platform Installer.vhdx zipped file (for example, Cisco-HX-Data-Platform-Installer-v3.0.1a-build-hyperv.vhdx) from the Cisco Software Downloads site.
Step 2	Extract the zipped folder to your local computer and copy the .vhdx file to the Hyper-V host where you want to host the HX Data Platform Installer. For example, \\hyp-v-host01\\HX-Installer\Cisco-HX-Data-Platform-Installer-v3.0.1a-29499-hyperv.vhdx
Step 3	In Hyper-V Manager, navigate to one of the Hyper-V servers.

Step 4 Select the Hyper-V server, and right click and select New > Create a virtual machine. The Hyper-V Manager New Virtual Machine Wizard displays.

a					Hyper-V Ma	nager
File Action	n View Help					
Hyper-VI	New >	Machines Virtual Machine	CPILIIsage	Assigned Memory	Untime	Status
	Import Virtual Machine Hyper-V Settings Virtual Switch Manager Virtual SAN Manager	Hard Disk Floppy Disk	CFO Usage	No virtual machin	es were found on t	this server.
	Edit Disk Inspect Disk	-				
	Stop Service Remove Server Refresh					
	View >	ints				
				No virtua	al machine selecte	d.

Step 5 In the **Before you Begin** page, click **Next**.

🖳 New Virtual Machine Wiza	rd	×
💴 🛛 Before You	Begin	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	This wizard helps you create a virtual machine. You can use virtual machines in place of physical computers for a variety of uses. You can use this wizard to configure the virtual machine now, and you can change the configuration later using Hyper-V Manager. To create a virtual machine, do one of the following: • Click Finish to create a virtual machine that is configured with default values. • Click Next to create a virtual machine with a custom configuration.	
	< Previous Next > Finish Cancel	

Step 6 In the **Specify Name and Location** page, enter a name and location for the virtual machine where the virtual machine configuration files will be stored. Click **Next**.

Note As a best practice, store the VM together with the .vhdx file.

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8	New Virtual Machine Wizard	x
Specify Nar	me and Location	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Summary	Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you easily identify this virtual machine, such as the name of the quest operating system or workload. Name: HX-Installer You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server. Image: C:\clusterStorage\volume1\hr-installer\ Image: C:\clusterStorage Image: C:\cluste	
	< Previous Next > Finish Cancel	

Step 7 In the **Specify Generation** page, select **Generation 1**. Click **Next**. If you select Generation 2, the VM may not boot.

New Virtual Machine Wiz	ard ×
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	 Choose the generation of this virtual machine.
	More about virtual machine generation support
	< Previous Next > Finish Cancel

Step 8 In the Assign Memory page, set the start up memory value to 4096 MB. Click Next.

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🖳 New Virtual Machine Wizar	d	×
Assign Memo	ry	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	 Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 12582912 MB. To improve performance, specify more than the minimum amount recommended for the operating system. Startup memory: 8192 MB ✓ Use Dynamic Memory for this virtual machine. (1) When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run. 	1
	< Previous Next > Finish Cancel	

Step 9 In the **Configure Networking** page, select a network connection for the virtual machine to use from a list of existing virtual switches. Click **Next**.

New Virtual Machine Wizard		×
Configure No	etworking	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter t virtual switch. or it can remain disconnected.	ncel

Step 10 In the **Connect Virtual Hard Disk** page, select **Use an existing virtual hard disk**, and browse to the folder on your Hyper-V host that contains the .vhdx file. Click **Next**.

I

a.	New Virtual Machine Wizard	x
Connect Vi	rtual Hard Disk	
Before You Begin Specify Name and Location Specify Generation Assign Memory	A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties. Create a virtual hard disk Use this option to create a VHDX dynamically expanding virtual hard disk.	
Configure Networking Connect Virtual Hard Disk Summary	Name: HX-Installer.vhdx Location: C:\ClusterStorage\volume1\hx-installer\HX-Installer\Virtual Hard Di: Size: 127 GB (Maximum: 64 TB)	
	Ose this option to attach an existing virtual hard disk, ethicit virb of virb to virb to mattach and the existing virtual hard disk. Location:	
	< Previous Next > Finish Cancel]

Step 11 In the **Summary** page, verify that the list of options displayed are correct. Click **Finish**.

Before You Begin Specify Name and Location	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description:
spearty Generation Assign Memory Configure Networking Connect Virtual Hard Disk Summary	Name: HX-Installer Generation: Generation 1 Memory: 8192 MB Network: newprivate Hard Disk: C:\Users\Administrator.WIN-5RKBSHE0CFP\Desktop\ztemp\build\Cisco-HX-Data-Platfor
	< To create the virtual machine and close the wizard, click Finish.

Step 12

- After the VM is created, power it ON, and launch the GUI.
 - a) Right-click on the VM and choose Connect.
 - b) Choose Action > Start (Ctrl+S).
 - c) When the VM is booted, make a note of the URL (IP address of the VM). You will need this information in the following steps in the installation.

Step 2 - Cisco UCS Manager Configuration

The following procedure describes configuring Cisco UCS Manager using HX Installer.

Procedure

Step 1

Log into the HX Data Platform Installer using the following steps:

- a) In a browser, enter the URL for the VM where HX Data Platform Installer was installed. If you do not have the URL, go back to Step 13 in the earlier section on Step 1 Deploying HX Data Platform Installer.
- b) Use the credentials: username: root, password: Cisco123

Important Systems ship with a default password of Ciscol23 that must be changed during installation. You cannot continue installation unless you specify a new user supplied password.

- c) Read the EULA. Click I accept the terms and conditions.
- d) Verify the product version listed in the lower right corner is correct. This version must be 3.0(1a) or later. Click Login.

Cisco HyperFlex Connect × C Not Secure https://hx-eap-01-mgmt.r	iscolab dk/#/clusters/1	\$
	alialis	
	cisco	
	Cisco HyperFlex Connect	
	HyperFlex	
	3.0(1a)	
	1 JUSER NAME	
	PASSWORD I	
	Login	

Step 2 From the HX Data Platform Installer **Workflow** page, select **I know what I'm doing, let me customize my workflow**.



Step 3 On the next screen, click **Run UCS Manager Configuration** and then **Continue**.

• • • Hyperflex Installer	×								θ
← → C ▲ Not Secure M	ps://10.101.1.228/W/credentials							☆	🛛 i
alaa) cisci	"HyperFlex Installer			0	0	0	o ~		
			Workflow						
	elect a Workflow								
		0	Run UCS Manager Configuration						
			Run Hypervisor Configuration						
			Depioy HX Somware						
		Create MI Chatter	 Exclused bit (Sursey Over Supported). 						
			C colored or control from additional						
6	Show me the standard workflows					Continue			

Caution Do not choose any other workflow option at this point.

Step 4 Click **Confirm** in the pop-up that displays.

Warning	×
You have selected a custom option that splits the installation or expansion workflow. You must complete If your nodes are data-at-rest encryption capable, custom installation is not supported. Cancel to return to the standard workflow. Confirm and Proceed to continue with a custom workflow.	all tasks in the workflow to ensure a working HX storage cluster.
	Cancel Confirm and Proceed

Step 5 UCS Manager Credentials

At this point the right side of the page is unused. Further in the setup process a configuration JSON is saved, so in subsequent installations the JSON file can be imported to add the data quickly.

Complete the following fields for UCS Manager.

Field	Description
UCS Manager Host Name	FQDN or the VIP address of the UCSM.
UCS Manager User Name and Password	Administrator user and password or an user with UCSM admin rights.

• • • Hyperflex	installer ×					θ
← → C ▲ Not See	cure Milps://10.101.1.228/#/credentials					* 🛛 i
	under HyperFlex Installer				0 0 0 0 0 ~	
	Credentials		Server Selection		UCSM Configuration	
	UCS Manager Credentials UCS Manager Heat Name ucs-hn-eap cliscolata dk	UCS Manager User Name admin	Pasword	•	Configuration Charge and drage configuration filtes here or Select a File	

Click **Continue** to proceed. The installer will now try to connect to the UCSM and query for available servers. The configuration pane will be populated as the installer progresses. You can at any time save the JSON file so you can re-use it for subsequent installations. This feature works on all the different workflows in the installer. After the query finishes then you will get a screen with the available servers

Choose all the servers that you want to install in the cluster and click Continue.

Not Secure htt	lps://10	.101.1.2	28/#/servers										\$
abab cisco	;	Нуре	Flex Installer								٥	o ~	
			Credentials			Server Selec	tion		UCSM	Configuration			
s	Server	Selection Hyper	ion •V only runs on MS	servers. The list be	low is restricted to MS s	Configurers.	gure Server Ports	Refresh	Configur	ation		•	
Ŀ	Unas	sociated	(4) Associate	d ((0)					UCS Manage	r Host Name 😡	s-hx-eap.ciscola	b.dk	
		*	Server Name	Status	Model	Senal W792149070V	Assoc State	Actions	UCS Manage	r User Name		Imin	
	0		Server 2	unassociated	HXAF220C-MSSX	W2P21480781	none	Actions ~					
	0	(D)	Server 3	unassociated	HKAF220C-M5SX	WZP214807RE	none	none					
			Server 4	unassociated	HKAF220C-M55X	WZP2148075C	none	none					
									C Bac	k	Continue		



Step 6 VLAN Configuration

HyperFlex needs to have at least 4 VLANs to function, each needs to be on different IP subnets and extended from the fabric interconnects to the connecting uplink switches, to ensure that traffic can flow from the Primary Fabric Interconnect (Fabric A) to the Subordinate Fabric Interconnect (Fabric B).

Name	Usage	ID
hx-inband-mgmt	Hyper-V and Hyperflex VM mgmt	10
hx-storage-data	HyperFlex storage traffic	20
hx-livemigrate	Hyper-V Live Migration network	30
vm-network	VM guest network	100,101

Use the following illustration as a reference for entering values in this screen.

VLAN for Hypervisor and Hype	erFlex management	VLAN for HyperFlex storage	e traffic
VLAN Name	VLAN ID	VLAN Name	VLAN ID
hx-inband-mgmt		hx-storage-data	
VLAN for VM Live Migration	VLAN ID	VLAN for VM Network	VLAN ID(s)

• Do not use VLAN 1 as it is not best practice and can cause issues with disjoint layer 2.

• vm-network can be multiple VLANs added as a comma separated list.

Caution Renaming the 4 core networks is not supported.

Step 7 Enter the remaining network configuration.

Field	Description	Value
MAC pool prefix	MAC address pool for the HX cluster, to be configured in UCSM by the installer. Ensure that the mac address pool isn't used anywhere else in your layer 2 environment.	00:25:b5: xx
IP blocks	The range of IP addresses that are used for Out-Of-Band management of the hyperflex nodes.	10.193.211.124127
Subnet Mask	The subnet mask for the Out-Of-Band network	255.255.0.0
Gateway	The gateway address for the Out-Of-Band network	10.193.0.1

• The Out-Of-Band network needs to be on the same subnet as UCS Manager.

• You can add multiple blocks of addresses as a comma separated line.

MAC Pool Prefix		
00:25:85:		
'hx-ext-mgmt' IP Pool for Out-of-b	and CIMC	
'hx-ext-mgmt' IP Pool for Out-of-b IP Blocks	and CIMC Subnet Mask	Gateway

iSCSI Storage and FC Storage are used for adding external storage to the HyperFlex cluster. This is currently r supported for the Hyper-V Edition.

Step 8 Advanced Section

Field	Description	Example Value
UCS Firmware Server Version	Choose the appropriate UCS Server Firmware version.	3.2(3a)
HyperFlex Cluster Name	This user defined name will be used as part of the service profile naming In UCSM for easier identification.	
Org Name	The org. name is used for isolating the HX environment from the rest of the UCS platform to ensure consistency.	HX-Cluster1
		HX-Cluster1

Note

- The UCS C and B bundles must exist on the Fabric interconnect otherwise the installation will fail. If the right version is not available in the drop-down list, then upload it to UCSM before proceeding with this procedure.
 - Currently supported version for HyperFlex Hyper-V is 3.2(3a).

/LAN for Hypervisor and Hy	perFlex management	VLAN for HyperFlex stor	age traffic	Credentials	
VLAN Name	VLAN ID	VLAN Name	VLAN ID	UCS Manager H	lost Name ucs-hx-eap.ciscolab.d
hx-inband-mgmt	2696	hx-storage-data	2697	UCS Manager U	lser Name admir
				Server Selecti	on
VLAN for VM Live Migration		VLAN for VM Network		Server 2	WZP214807RI / HXAF220C-M5S
VLAN Name	VLAN ID	VLAN Name	VLAN ID(s)	Server 3	WZP214807RE / HXAF220C-M55
hx-livemigrate	2698	vm-network	2699	Server 1	WZP2148075Y / HXAF220C-M55
				Server 4	WZP2148075C / HXAF220C-M55
00:25:85: 51					
00:25:85:51 hx-ext-mgmt' IP Pool IP Blocks 10.101.2.243-247	for Out-of-band CIMC Subnet Mask 255.255.255.0	Gate	way .101.2.1		
00-25:85:51 'hx-ext-mgmt' IP Pool IP Blocks 10.101.2.243-247 ≻ ISCSI Storage	for Out-of-band CIMC Subnet Mask 255.255.255.0	Gate	way .101.2.1		
00-25:85:51 "hx-ext-mgmt" IP Pool IP Blocks 10.101.2.243-247 > ISCSI Storage > FC Storage	for Out-of-band CIMC Subnet Mask 255.255.255.0	Gate	way 101.2.1		
00-25-85-51 "hx-ext-mgmt" IP Pool IP Blocks 10.101.2.243-247 > ISCSI Storage > FC Storage Advanced	for Out-of-band CIMC Subnet Mask 255.255.255.0	Gate	way .101.2.1		
00-25:85:51 'hx-ext-mgmt' IP Pool IP Blocks 10.101.2.243-247 > ISCSI Storage > FC Storage Advanced UCS Server Firmware Version	for Out-of-band CIMC Subnet Mask 255.255.255.0 HyperFlex Cluster Nam	Gate 10 10	way .101.2.1		



Step 10

When the HX Data Platform Installer is finished, then you are ready to proceed to next step, Step 3 - Microsoft OS Installation, on page 18.

Start	Validations	UCSM Configuration
✓ UCSM Configuration Success	ful	

Step 3 - Microsoft OS Installation

For Microsoft OS installation, you will need to first configure a vMedia policy in Cisco UCS Manager to map the following two image files:

- Customer provided Windows 2016 Datacenter edition ISO, and
- Cisco provided Cisco HyperFlex Driver image.

These image files must be placed on a share that is reachable from Cisco UCS Manager and the Out-of-band subnet that was used in the previous installation step. If you do not have a location to serve the files from, then you can use the installer to host the files. Please see the section: How to upload the ISO and img file to the installer VM using WinSCP.



Note Ensure network connectivity exists between the fileshare and all server management IP addresses.

Procedure

Step 1 Launch Cisco UCS Manager::

- a) In your web browser, type the Cisco UCS Manager IP address.
- b) Click Launch UCS Manager.
- c) In the login screen, enter the with the username as **admin** and the password set in the beginning of the installation. Click **Log in**.
- **Step 2** Create a vMedia policy for the Windows OS and Cisco driver images:
 - a) In the Navigation pane, click Servers.
 - b) Expand Servers > Policies > root > Sub-Organizations > hx-cluster_name > vMedia Policies
 - c) Right-click vMedia Policies and select Create vMedia Policy HyperFlex.

	FI-6332-A - Unified Com; ×		θ	-		×
÷ -	C A Not secure https://10.29.1	49.205/app/3_2_3a/index.html			Qţ	ž
alialia cisco	UCS Manager		0	00	۲	e
æ	Policies 👻	Policies / root / vMedia Policies				
	 Policies 	vMedia Policies				
	▼ root	+ - Ty Advanced Filter				٥
유	 Adapter Policies 	Name Type				
	 BIOS Defaults 	No data available				
	 BIOS Policies 					
	 Boot Policies 					
₽	 Diagnostics Policies 					
-	 Graphics Card Policies 					
-	 Host Firmware Packages 					
	 IPMI Access Profiles 					
	 KVM Management Policies 					
30	 Local Disk Config Policies 					
	 Maintenance Policies 					
	 Management Firmware Packages 					
	 Memory Policy 					
	 Power Control Policies 					
	 Power Sync Policies 					
	 Scrub Policies 					
	 Serial over LAN Policies 					
	 Server Pool Policies 					
	 Server Pool Policy Qualifications 					
	 Threshold Policies 					
	 ISCSI Authentication Profiles 					
	 vMedia Policies Create vMedia Policy 					
	 vNIC/vHBA Placement Policies 					

d) In the Create vMedia Policy dialog box, complete the following fields:

Field Name	Description
Name	The name of the vMedia policy. For example, <i>HX-vMedia</i> .
	This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.
Description	A description of the policy. We recommend including information about where and when the policy should be used. Maximum 115 characters.

Field Name	Description
Retry on Mount Failure	Designates if the vMedia will continue mounting when a mount failure occurs. This can be:
	• Yes • No
	Note The default setting is Yes . When Yes is selected the remote server will continue to try to mount the vMedia mount process until it is successful or you disable this option. If you select No, a warning message will appear indicating retry on mount failure will not work in case of mount failure.

Refer to the following screeshot as an example:

reate	e vMedia Po	olicy						? ×
ime iscription try on M Media N	: HX- n : fount Failure : Nounts	vMedia lo • Yes						
	Ty Advanced Filter	♠ Export	🖶 Print					٥
lame	Туре	Protocol	Authentica	Server	Filename	Remote Pa	User	Remap on
			(+) ▲	dd 🕅 Delet	e 🖲 Info			
			0.4					
							ок	Cancel

e) On the icon bar under the vMedia Mounts pane, click + Add. In the Create vMedia Mount dialog box, complete the following fields:

Field Name	Description	Example Value
Name	Name for the mount point.	Windows-ISO
Description	Can be used for more information.	Windows Server 2016 image

Field Name	Description	Example Value
Device Type	 Type of image that you want to mount. This can be: CDD—Scriptable vMedia CD. HDD—Scriptable vMedia HDD. 	CDD
Protocol	The protocol used for accessing the share where the ISO files are located.	НТТР
Hostname/IP Address	IP address or FQDN of the server hosting the images.	10.101.1.92
Image Name Variable	This value is not used in HyperFlex installation.	None
Remote File	The filename of the ISO file that you want to mount.	
Remote Path	The path on the remote server to where the file resides	
Username	If you use CIFS or NFS a username might be necessary	
Password	If you use CIFS or NFS a password might be necessary	

Refer to the screenshot below as an example:

Create vMed	ia	Mount	? ×
Name	:	Windows-ISO	
Description	:	Windows Server 2016 Image	
Device Type	:		
Protocol	:		
Hostname/IP Address	:	10.29.149.212	
Image Name Variable	:	None Service Profile Name	
Remote File	:	en_windows_server_2016_x64_dvd_9327751.iso	
Remote Path	:	/images/	
Username	:		
Password	:		
Remap on Eject	:		
		ОК С	ancel

f) Click **OK**. When you click **OK**, you will now be returned to the **vMedia Policies** screen, and you should see the information that you just submitted.

Create vMedia Po	olicy						(? ×
Name : HX- Description : Retry on Mount Failure : VMedia Mounts	vMedia o • Yes						
+ - Ty Advanced Filter	🕈 Export 🔮	Print					٥
Name Type	Protocol	Authentica	Server	Filename	Remote Pa	User	Remap on
Windo COD	nir	Derauit	10.23.143	en_windo	/images/		NO
		(+) Ac	d 🖲 Delete	Info			
						ОК	Cancel

- g) Repeat Steps 2e and 2f, however, change the type to HDD and the remote file name to the Cisco HyperFlex driver image.
- h) At the end of this step, the two vMedia mounts will be listed in the Create vMedia Policy screen as shown in the following screenshot:

Create v	Media Po	olicy					? ×
Name Description Retry on Mount vMedia Mount	: HX- : t Failure : N nts	vMedia					
+ - 72	Advanced Filter	♠ Export	🖶 Print				٥
Name	Туре	Protocol	Authentica	Server	Filename	Remote Pa User	Remap on
HX-Cis	HDD	HTTP	Default	10.29.149	HXInstall	/images/	No
Windo	CDD	HTTP	Default	10.29.149	en_windo	/images/	No
			⊕ A(dd 🗊 Delete	1 Info		
						ОК	Cancel

Step 3 Associate the vMedia Policy to a Service Profile:

a) In the Navigation pane, select Servers > Service Profile Templates > root > Sub-Organizations > hx-cluster_name > Service Template hx-nodes_name (example:hx-nodes-m5)

A F	I-6332-A - Unified Comp ×	
← →	C A Not secure https://10.29.1	49.205/app/3_2_3a/index.html
uluilu cisco	UCS Manager	
æ	Service Profile Templates	Service Profi / root / Sub- Organizations / HyperFlex / Service Tem
	Service Profile Templates root Sub-Organizations	General Storage Network iSCSI vNICs vMedia Policy Boot Order Policies Actions
575 王	 HyperFlex Service Template compute-nodes 	Modify vMedia Policy Global vMedia Policy Name
Q	 Service Template compute-nodes- Service Template hx-nodes 	Wedia Policy Policy </th
	Service Template hx-nodes-m5 Sub-Organizations	vMedia Mounts + - Ty Advanced Filter ↑ Export ⊜ Print
		Name Type Protocol Authentic Server Filename Remote P No data available

- b) Click the vMedia Policy tab. Then, click Modify vMedia Policy
- c) Choose the vMedia Policy that you created earlier from the drop-down selection, and click OK twice.

Addify v	Media Pol	icy					
Name Description Retry on M	Select vMedia Create a Speci vMedia Policies HX-vMedia	Policy to us fic vMedia	se Policy	nstall software o	n HyperFlex ser	vers	
vMedia M	HyperFlex	♠ Export	🚔 Print	J			
Name	Туре	Protocol	Authent	icat Server	Filename	Remote Path	User

d) Under the General tab, verify that the vMedia policy is added to the Service Profile.

altalta cisco	UCS Manager	8	♥ 🛆 🔇 4 1 1		. 🖨
黒	Service Profiles	Service Profiles / root / Sub- Organizations	HyperFlex / Service Profil		
8	Service Profiles root	General Storage Network	SCSI vNICs vMedia Policy	Boot Order Virtual N	Aachines FC Zones Policies Se
쁆	 Sub-Organizations HyperFlex 	Actions Modify vMedia Policy	Global vMedia Policy Name : HX-v	vMedia	
	rack-unit-1 (HXCLUS)		vMedia Policy Instance : org- Description :	root/mnt-cfg-policy-HX-vN	fedia
Q	 rack-unit-2 (HXCLUS) rack-unit-3 (HXCLUS) 		Retry on Mount Failure : Yes vMedia Mounts		
=	 rack-unit-4 (HXCLUS) 		+ - Ty Advanced Filter	🕈 Export 🖷 Print	
	 Sub-Organizations 		Name Type	Protocol Authentic	Server Filename Remote P
			HX-Cis HDD	HTTP None	10.29.149 HXInstall /images/
			Windo CDD	HTTP None	10.29.149 en_windo /images/

- **Step 4** Modify Boot Policy and set the boot order to have CIMC CD/DVD to the list:
 - a) In the Navigation pane, click the Servers tab.
 - b) Expand Servers > Policies > root > > Boot Policies > *Boot Policy HyperFlex-m5*

C A Not secure Neps//192.10	and the object services								
UCS Manager		8 🗸 🤇	9 📀 1 23				0		
M Server Pool Policies Server Pool Policy Qualifications	Servers / Policies / root / Sub- Organizations / so Conorat Events	ale-mx / Boot Policies / Boot Policy							
 Threshold Policies 	Actiona	Properties							
 GCSI Authentication Profiles 	Delene	Name	hx-compute-m5						
 Weda Polcies 	Show Policy Usage	Description	Recommended boot policy for Hyper	Flex servers					
 vNC/vH6A Placement Policies 	Use Olobal	Owner	Local						
 Sub-Organizations 		Reboot on Boot Order Chang							
 scale-mx 		Entroise VACIVHEAUSCSI Na Boot Mode	(Relation Class						
 Adapter Policies 		BOCK MODE	· Southet Const						
 BIOS Policies 	Warning								
BIOS Policies Boot Pulicies	Warning The type (primary/secondary) does not indicate a l	boot order presence.							
Boot Policies Boot Policies Boot Policy Itx-compute	Warning The type (primary/secondary) does not indicate a The effective order of boot devices within the sam if Enforce uNCAHERATIC's Name is selected an	boot order presence. e device class (LAV/Stocage/SCS) is determined 1 3 the vNC/velaV/SCS does not exist, a config em	by POie bus scan order. or will be reported.						
BICS Policies Boot Pulicies Boot Policy fix-compute Boot Policy fix-compute Root Policy fix-compute-en	Warning The type (primary/hecondary) does not indicate a The effective order of boot devices within the sam if Endroces VECNMENACE Name is elected an if it an not selected, the vNCaAMBAs are selected	bot order presence. e deuce class (LAV/Storage/SCS) is determined if the vVC/VHSAVSCS does not exait, a config em if they exait, otherwise the uVC/VHSA with the low	by PCIe bus scan order. In all be reported. rest PCie bus scan order is used.						
BIOS Polices Boot Polices Boot Polices Boot Police In-compute Doot Policy In-compute Boot Policy In-compute Boot Policy HyperFiles	Warning The type (primary/hecondary) does not indicate a The effective order of boot divices within the sam of offsets and MCM/MMACES than an is selected of it is not selected, the vNCs/vHiMe are selected	boot order presence. e device class (LAN/Stocage/IGCS) is determined the vVC/VHSA/SCS does not exist, a config error # they exist, otherwise the LANC/VHSA with the low	by PCIe bus scan order. or will be reported. red PCIe bus scan order is used.						
EICS Polices Elocit Polices Boot Polices Boot Police in-compute Doot Policy In-compute inf Boot Policy MyperRex Boot Policy MyperRex	Warning The topic [commary] theoretical of the output of the output of the effective order of boot drawns, within the same if if Inforce aNEC/NELASCER Name is selected at if a read selected. The vNCa/nHAR are selected (i) Local Devices	Lost order presence. e deuter class (LAV/Storage/MCS) is determined of the VAC/MBA/BCS does not exet, a config en- of they exat, otherwise the VAC/MBA with the low Best Onder	by PCIe bue scan order. In will be reported. well PCIe bue scan order is used.						
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EIDS Palaces Eost Palaces Eost Palaces Eost Palaces Eost Palaces Eost Palace Mail and an annual service and an annual service and annual service annual service and annual service annunut service an	Warning The type [primary/shearshim] does not induce a little The efficience adder of local devices within the sam of Efficience adder/NEMASCH Name is selected and Efficience adder/NEMASCH Name is selected If is not advanced, the sheColonBlue are selected If is Local Devices Image: CIMC Mounted vMedia	tot ode presno. et diver das (JAV/Bouge/ACS) is determined d the vRC/HBAVEC dates not exect, a configu- f leng sout, offenen build/ABAU with the tor Best Order + - *_yAbaroot Film * Tome Cost	by PCIe bus scan order. or all be regioned with PCIe bus scan order is used. Sepon ● Print w ● vACO-MBASSC. Type	UUN Nome	www	SutNumber	Boot Name	Boot Parts	Q Description
BOS Polices BOS Polices BOS Polices BOS Polices BOS Polices BOS Police No-compute we BOS Policy Nacompute we BOS Policy Nacompute we BOS Policy Nacompute we BOS Policy Nacom BOS Polices Organics Polices	Wenning The specifying of the set inducts a The specifying of the set inducts a The set of the set inducts and the set inducts a The set of setsected and the sets sets of the set inducts are sets of the set inducts and the sets of th	toot online presence. In the data of the control o	ty PDe but scar order. In all be reported ent PDe but scan order is vend. Coport	LUN Name	www.	Statiunter	Boot Name	Boot Parts	Queoription
BOX Palaces BOX Palaces BOX Palaces BOX Palaces BOX Palaces BOX Palace her-compute Degrade Card Palaces Hopd Finneare Packages	Warning The space joins within of local depress within the same of local depress within the same of local depress within the same of local depress. @ Local Devices @ Local Devices @ CMC Mounted vMedia @ VMCs	bot other preserve. e device data (LAV)/InsuperVSC9 is determined if they exact, otherwise the vACL+REA with the low Best Order +	lay PCIs but scare order. The PCIs but scare order is used. Report Φ Pret ar • VACANDA(SC., Type	UUN Name	www	Sut Number	Boot Name	Boot Parts	Q Description
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BOX Proteins Box Proteins Box Proteins Box Protein Compared Compared	Warning The type (primary) detection), detection of endoced a 1 The type (primary) detection of the type of the typ	toot online presence. In the device of data, (LAAN) the opposite SCSS is determined if they exact, confidence of each of the opposite if they exact, otherwise the vMcCAr48A with the low Percent of the opposite of the opposite of the opposite Name Opposite CoCHON 1 CoCHON 2	To PCN but start order: or all be reported well PCM but start order is used. Source & Print wr • VAICAMBARGE	UUN Name	www.	SutNumber	Boot Name	Boot Parth	O Description
BOX Proteins BOX Proteins BOX Proteins BOX Proteins BOX Protey the computer BOX Protey they report the Portuge they report the Portuge they report the Cont Drote they report the	Warning The space joins with or idea of local denses with or the same of local denses with or the same of local denses with or the same of the set set set of local denses. (*) Local Devices (*) CIMC Mounted vMedia (*) VACs (*) VHEAs (*) CCCI VNCS	bot other preserve. It down it data (LAV) the yound of the second of th	ly AGN has each rober, y AGN has pools and the pools well FCe bus sold order is used. Sount Φ Prec w • VACAMBA/GC	LUVI Narhe	www	Sut Number	Boot Name	Boot Parth	O Description
BOJ Palces Control Palces BOJ Palces BOJ Palces Control Palces BOJ Palces BOJ Palces BOJ Palces Control Palc	Warning The spic joins y become in the off tool devices within the same of tool devices within the same of tool devices. Image: tool devices	bot ode presno. e devor das (JAV/Brage/SCS) is demonsed d te vPC/SRA/SC2 dos of exerts, is defined the set of the set of the set Sector Oder <u> </u>	lyPCe but scar oder. or all be recorded of PCe but scars order is und. Door. ∳ Pret ar • VACAMBASSC	LUN Name	www	Sut Number	Boot Name	Boot Parts	Quesoription
BOJ Palaces Boo Palaces Congenerse Palaces Congenerse Palaces Congenerse Palaces Monogenerse Mono	Warring The type (preservice) determined on the index of a field on the field on the index of a field on the index	toot onling presence. In the data (LAC) through SSC33 is determined if they exact, otherwise the vMC/Ar48A with the low Percent of the second seco	Ity PCN has start order: In all be reported well PCM has start order in used. Source Φ Prec Image: A VACAMENICS. Type	UUN Name † Move Up 🛔 Mov	www.	Stat Number	Boot Name	Boot Parts	© Description
BOX Proteins BOX Proteins BOX Proteins BOX Proteins BOX Proteins BOX Protey the computer and BOX Protey Higher/Text Dox Proteins Pool And Confe Proteins Cond Data Confe Proteins Gox Analysing Proteins Management Proteins	Werning The tape lymmery/lecondary/lecondary fields not induced a table for a law of the same of the same of the same of the same selected	bot only preserve. In driver this [UV/Introperiod/25] is driver and the intervent this [UV/Introperiod/25] is driver and the intervent the second second second second second second if they want, otherwise the second	ly PGN has each roter, y PGN has perform end FCe bas sold order is unet. Equat ● Prec w • VeCAHBAICC	UUN Name	www.	Sur Number	Boot Name	Boot Parts	0 Description
BOJ Pulces Dogradical Pulces P	Warning The spic jonnary/secondaryl does not indicate a the affect baces within the same of a contract of the original secondary of the secondary of th	bot ode presno. e deve diss (JAN)Inspection() is demonsed if a vAO/stableck data which is deve vAO/stableck data which is better the set of the set better the set of the set Name Original COVO 1 Local Data 2 Instable Conception	lly PCe toa scar order. or all te reported en PCP to access order is used. Count	UUN Name	www.	SutNurber	Bost Name	Boot Parts	0 Oreanytion
BOJ Palaces Bod Palaces Constructs Construct Constru	Warring The type (preservice) detected in detected and the part (preservice) detected and the set setected and the detected and the de	toot onling presence.	In PCN law start order: In will be reported well PCM has start order in used. Source Φ Pres. In • VRCMRAYCC Type	UUN Name	WWW WWW	Suthinter	Boot Name	Boot Purb	© Description

- c) In the **Boot Order** configuration pane, click **CIMC Mounted CD/DVD**. Then, click **Add CIMC Mounted CD/DVD** to add this to the boot order. Move it to the top of the boot order using the **Move up** button.
 - Important As shown in the screenshot below, the CIMC Mounted CD/DVD option must be highest in the boot order preceding the other options, Embedded Local Disk and CD/DVD.

Soot Order									
+ - Yr Advanced Filte	r 🕈 Exp	ort 🖷 Prir	t						\$
Name	Order.	vNIC/v	Туре	LUN N	WWN	Slot N	Boot N	Boot P	Descri
CIMC Mounted CD	1								
CD/DVD	2								
Local Disk	3								
		t Mo	ve Up 🖣	Move Dow	n 🖻 Del	oto			

d) Click Save Changes, and click OK in the Success dialog box. The modified boot policy is saved.

Step 5 Verify successful vMedia mounting:

- a) On the **Equipment** tab, select one of the servers.
- b) Click **Inventory** > **CIMC**, scroll down and ensure for mount entry #1(OS image) and mount entry #2 (Cisco HyperFlex driver image) you see status as **Mounted** and there are no failures.

.1)1.1)1. CISCO	UCS Manager	8	🔽 🙆 🔇 4 - 1	0		• •	990 96
ж.	All	Equipment / Rack-Mounts / Servers /	/ Server 1				
8	▼ Equipment Chassis	General Inventory Virtual M Motherboard CMC CPUs	GPUs 1	Hybrid Display Installed F Memory Adapters HE	îrmware SEL Logs Cl Mas NICs ISCSI vNICs	MC Sessions VIF P Storage	aths Power Control Monitor> >
*	 Rack-Mounts FEX 			Boot-loader Version: 3.1(Running Version : 3.1(3a)	3a)		
₽	Servers Secure 1			Package Version: 3.2(3a) Backup Version: 3.1(2d)	c		
۵	 Server 2 			Startup Version : 3.1(3a) Activate Status : Ready			
=	 Server 3 Server 4 O 			Actual vMedia Mounts			
•	 Fabric Interconnects Fabric Interconnect A (primary) 👽 			Mapping Name :	Windows-ISO	Туре	CDD
J 0	 Fans 			Protocol :	нттр	Server	10.29.149.212
	Fixed Module PSUs			Port	80	Filename: en_window	s_server_2016_x64_dvd_93277:
	 Fabric Interconnect B (subordinate) 😳 			Remote Path : Status :	/images/ Mounted	User Mount Failure Reason	None
	Fans Fixed Module			Authentication Protocol : Actual Mount Entry 2	None	Remap on Eject	No
	Ethernet Ports FC Ports			Mapping Name :	HX-Cisco-Driver	Туре	HDD
	 PSUs Policies 			Protocol : Port :	нттр 80	Server	: 10.29.149.212 : HXInstall-HyperV-
	Port Auto-Discovery Policy						DatacenterCore-v3.0.1b- 29665.img
				Remote Path :	/images/	User	
				Status :	Mounted	Mount Failure Reason	None
				Authentication Protocol :	None	Remap on Eject	No

- c) In the menu bar, click Servers and choose the first HyperFlex service profile.
- d) Click the General tab and choose Actions > KVM Console>>.
 - **Note** The KVM console will try to open in a new browser. Be aware of any pop-up blockers. Allow the pop-ups and re-open the KVM



- e) Reboot the host, launch the KVM Console, and power on the server to monitor the progress of the Windows installation. You should see the Loading Files screen appear. Windows should install automatically without user intervention. You should see a blue screen and within a few moments you should see the Setup is starting message. If automated installation does not begin, double-check that both images are mounted to the server.
- f) Once Windows installation completes, a command prompt will show up. Wait for the installation to complete. The host will then reboot a few times. The installation is complete when you get a clear command prompt at c:\users\administrator>
 - Note Ignore the prompt with the The system cannot find the file specified message.
 - Important Ensure that you have completed Steps e and f, on ALL servers that will be part of the HX cluster.
- g) Login to each server, enter the command C>Users>Administrator>Get-ScheduledTask and verify that the HX Install Bootstrap Launcher task is running.

Step 6 Remove the vMedia policy from the service profile:

- a) To un-map the vMedia policy from the service profile, go to Servers > Service Profile Templates > root > Sub-Organizations > hx-cluster_name > Service Template hx-nodes_name (example:hx-nodes-m5). Then, click on Modify vMedia Policy.
- b) Under the vMedia Policy drop-down selection, deselect the vMedia policy (*HX-vMedia*) previously used to map the two images.

Step 7 Restore the boot order to the one before installation:

- a) In the Navigation pane, click the Servers tab.
- b) Expand Servers > Policies > root > > Boot Policies > Boot Policy HyperFlex-m5

c) In the **Boot Order** configuration pane, use the **Move Down** button to move **CIMC Mounted CD/DVD** option to the bottom of the list.

Step 4 - Hypervisor Configuration, HX Data Platform and Cluster Deployment

After the installation of the OS is completed, perform the following steps to configure the hypervisor, install the HX Data Platform Software and configure the cluster.

Procedure

```
Step 1
```

1 Hypervisor configuration

- a) Re-open the HX Data Platform Installer and log in.
- b) You might need to "start over" because the previous workflow was finished. Click on the gear icon in the top right corner and select **Start Over**.
- c) In the main menu, select I know what I'm doing, let me customize my workflow. In the Warning dialog box, click Confirm and Proceed.
- d) Complete information for the UCS Manager, Domain Information and Hypervisor Credentials.

Field	Description	Default Value
UCS Manager Host Name	FQDN or the VIP address of the UCSM	
UCS Manager User Name	Admin user or an user with UCSM admin rights	Admin
Password	Password for the UCS Manager User Name	
Domain Name	Active Directory domain name that the HyperFlex cluster is going to be a member off.	
Local Administrator User Name	Local Administrative username on the Hyper-V Hosts	Administrator
Local Administrator Password	Password for the local administrative user on the Hyper-V hosts	Cisco 123

Note If you haven't changed the Administrator password for the Windows Hyper-V in the previous step the default value is as shown above.

The HX Data Platform Installer now connects to UCS Managaer and lists the relevant servers for the HX Cluster. The HX Data Platform Installer now validates UCS Firmware etc.

- e) Validate the selected servers and click **Continue**.
- f) Complete the network information as you have done in the chapter: Cisco UCS Manager Configuration using HX Data Platform Installer and ensure the data is the same. Click Continue to proceed to next screen.
- g) Configure Hypervisor Settings. Input the values for the Hypervisor configuration as show below

Field	Description	Example Value
Configure common Hypervisor S	ettings	
Subnet Mask	Subnet mask for the hypervisor hosts management network	255.255.255.0
Gateway	Default gateway for the hypervisor hosts management network	10.101.251.1
DNS Servers	Comma separated list for the DNS Servers in the AD that the hypervisor hosts are going to be member of.	10.99.2.200,10.992.201
Hypervisor Settings		
Static IP address	Management IP address for each host	10.101.251.41
Hostname	Hostname for each host	HX-Hypv-01

Note If you leave the checkbox **Make IP Addresses and Hostnames Sequential** as checked then the installer will automatically fill the rest of the servers sequential from the first.

Click Start to begin the Hypervisor Configuration.

The installation now continues and configures the Hypervisor hosts.

Important Be aware that even if the steps are completed as shown above, the Hypervisor configuration is not completed. The servers are working in the background until the installer reports an overall completion.

Step 2 HX Data Platform Deployment

- a) You may need to start over because the previous workflow was completed. In the top right corner of the install, select **Start Over**, confirm that you wish to start over.
- b) In the HX Data Platform Installer Workflow page, select I know what I'm doing, let me customize my workflow.
- c) Check the Deploy HX Software and Create HX Cluster and click Continue.
- d) In the warning message, click Confirm and Proceed.
- e) **Domain information, Constrained Delegation, Hypervisor Credentials**. Use the following table to complete the fields in this page.

Field	Description	Example Value
Domain Information		
Domain Name	Active Directory Domain that the cluster will be a part of.	contoso.com

Field	Description	Example Value
HX Service Account	The HX service account that was created in the preinstallation phase.	hxadmin
	Important Verify that the Active Directory policies allow HX service account to have effective permissions to "Write servicePrincipalName" on the computer object created for smb namespace.	
Password	Password for the HX service account.	
Constrained Delegation		
HX Service Account and Password	Required for Constrained Delegation.	
Use HX Service Account	Uses the HX service account for Constrained Delegation. The user must be a domain administrator.	Click checkbox if HX service account is provided.
Configure Constrained Delegation now (recommended) or Configure Constrained Delegation later	Select one of the checkboxes. Constrained Delegation is required for VM Live Migration. To configure Contrained Delegation later, use the procedure described in Configuring a Static IP Address for Live Migration and VM Network.	
Advanced Attributes (optional)		
Domain Controller	FQDN for the Domain Controller that you want to use specifically for the installation.	dc.contoso.com
Organization Unit	The OU created during the preinstallation phase can be used here Then, the OU will be the home for the HX nodes in the Active Directory.	OU=HyperFlex, DC=contoso, DC=com
Hypervisor Credentials	•	·

Field	Description	Example Value
Hypervisor Local Administrator User Name	Local administrator username on the Hyper-V hosts	Default username/password: administrator/Cisco123 Important Systems ship with a default password of Cisco123 that must be changed during installation. You cannot continue installation unless you specify a new user supplied password.

Click Continue.

f) IP Addresses. Click Add Server to add the servers you need for the cluster.

Complete the hostnames for the Hyper-V hosts and the Storage Controllers running on the Hyper-V hosts. These hostnames must be added to forward and reverse look up prior to this step. Remember that only Windows AD Integrated DNS is supported.

Complete the data IP addresses for both the Hyper-V hosts and controller VMs.

Note The management VLAN uses the addresses and Data VLAN does not.

Field	Description	Example Value
Management		
Cluster Address	Hostname for the HX Connect UI	HX-EAP-01-MGMT
Subnet Mask	Subnet mask for the management VLAN	255.255.255.0
Gateway	Gateway address for the Management VLAN	10.101.251.1
Data		
Cluster Address	IP address for the HX cluster on the Data VLAN	10.101.252.50
Subnet Mask	Subnet mask for the management VLAN	255.255.255.0
Gateway	Gateway address for the management VLAN.	10.101.252.1

Use the following table to complete the fields in this page.

Click Continue.



a) Cisco HX Cluster Configuration.

Use the table below to complete the fields in this page.

Field Description		Example Value
Cisco HX Cluster		
Cluster Name (SMB Access Point)	The cluster name to be used as the FQDN for the datastores.	HX-EAP-01
Replication Factor	Select the number of redundant data replicas across the HX storage cluster. Options are 2 or 3. This cannot be changed after the cluster is created. 3 is recommended for production workloads.	3 (Default Value)
Failover Cluster Name	The name used for the Windows Failover Cluster.	
Controller VM	1	
Create Admin Password		
Confirm Administrator Password		
System Services		
DNS Servers	Comma separated lists of DNS Servers.	10.99.2.200, 10.99.2.201
NTP Servers	The controller VMs needs must be in sync with Windows Active Directory, therefore you must point to your AD domain controllers for time synchronization.	dc1.contoso.com, dc2.contoso.com
DNS Domain Name	The domain name for the Active Directory.	contoso.com
Timezone	The timezone that you want the HX controllers to report in.	
Auto Support		
Enable Connected Services	Auto Support to ship telemetry data of the HX cluster to Cisco Support.	
Send Service ticket to	Email address or alias to receive a copy of the ticket sent to Cisco.	email_address

Field	Description	Example Value
Advance Networking		<u> </u>
Management VLAN tag	VLAN used for the Management Network. This must be the same as used earlier in the installation process for the management network.	
Data VLAN tag	VLAN used for the Management network. This must be the same as used earlier in the installation process for the data network.	
Advanced Configuration		
Enable Jumbo Frames on Data network	Sets the MTU size for the storage data network on the host vSwitches and vNICs, and each storage controller VM. The default value is 9000. To set your MTU size to a value other than 9000, contact Cisco TAC.	
	Ensure that jumbo frames run on the links connected to the storage VMs.	
Disk Partitions	Removes all existing data and partitions from all nodes added to the storage cluster. You must backup any data that should be retained. Select this option to delete existing data and partitions. This is for manually prepared servers. Do not select this option for factory prepared systems. The disk partitions on factory prepared systems are properly configured.	
VDI	Configures for VDI only environments. To change the VDI settings after the storage cluster is created, shutdown or move the resources, make changes, and restart the cluster.	
Hypervisor Settings		
Primary DNS suffix	Completed in earlier steps in the installation.	

Field	Description	Example Value
Additional DNS suffixes	Complete this field if you need more suffices appended on your Hyper-V hosts.	

Refer to the illustration below as a sample entries for the various fields in this page.

Chuster Name (CMB Access Dojot)	Papilication Easter	Exilence Churter Mana	de la desta la
Liuster Name (SMB Access Point)	Replication Factor	Failover Cluster Name 🕖	Credentials
hx-eap-01		HX-EAP-CLU01	Domain Name Ciscolab.dk
			HC Service Account hxadmin
Controller VM			Time Zone Romance Standard Time
	010/07/09/07		Local Administrator User Name Administrator
Create Admin Password	Confirm Admin Password		IP Addresses
••••••		,	Cluster Name (SMB Access Point) hx-eap-01
			Management Cluster HX-EAP-01-MGMT
System Services			Data Cluster 10.101.252.50
			Management Subnet Mask 255.255.255.0
DNS Server(s)	NTP Server(s)	DNS Domain Name	Data Subnet Mask 255.255.255.0
10.99.2.200,10.99.2.201	Ciscolab.dk	ciscolab.dk	Management Gateway 10.101.251.1
Time Zone			Data Gateway 10.101.252.1
(UTC+01:00) Brussels, Copenhagen, Madrid	l, Paris 🔍 🛈		Server 0
			Management Hypervisor HX-EAP-1.Ciscolab.dk
Auto Support			Management Storage HX-EAP-1- Controller CNTL-Ciscolab.dk
Auto Support	Send service ticket notifications to		Data Hypervisor 10.101.252.41
 Enable Connected Services (Recommended) 	lagranbe@cisco.com		Data Storage Controller 10.101.252.51
			Server 1
Advanced Networking			Management Hypervisor HX-EAP-2.Ciscolab.dk
Auvanced Networking			Management Storage HX-EAP-2- Controller CNTLCiscolab.dk
Management VLAN Tag	Management vSwitch		Data Hypervisor 10.101.252.42
2996	vswitch-hx-inband-mgmt		Data Storage Controller 10.101.252.52
Data VLAN Tag	Data vSwitch		Server 2
2997	vswitch-hx-storage-data		Manazement Hypervisor HX-EAP-3 Ciscolab.dk
			Management Storage HX-EAP-3-
			C Back Start
Advanced Configuration			
Advanced Configuration	Disk Partitions	Vietual Darkton (VDI)	

b) Click **Start** to begin the deployment. The **Progress** page displays the progress of the configuration tasks: Start, Deploy Validation, Deploy, Create Validation, Cluster Creation.



Caution Do not skip validation warnings.

See the Warnings section for more details.

c) When the following screen is displayed, the installation process is completed.

I

Cluster Name hx	-еар-01 онине	HEALTHY					
Version			3.0.1a-29499	Dom	ain Name	Ciscol	ab.dk
Cluster Management	IP Address	HX-EAP-01-MGM	T.Ciscolab.dk	Failo	ver cluster Name	HX-EAP-C	LU01
Cluster Data IP Addre	-55	1	0.101.252.50	DNS	Server(s)	10.99.2.200, 10.99.	2.201
Replication Factor			Three copies	NTP	Server(s)	Ciscol	ab.dk
Available Capacity			6.4 TB				
Servers							
Model	Serial Number	Management Hypervisor	Management Storag	e Controller	Data Network Hypervis	sor Data Network Storage Controller	
HXAF220C-M5SX	WZP2148075Y	10.101.251.41	10.101.251.51		10.101.251.41	10.101.252.51	
HXAF220C-M55X	WZP2148075C	10.101.251.44	10.101.251.54		10.101.251.44	10.101.252.54	
HXAF220C-M55X	WZP214807RI	10.101.251.42	10.101.251.52		10.101.251.42	10.101.252.52	
HXAF220C-M55X	WZP214807RE	10.101.251.43	10.101.251.53		10.101.251.43	10.101.252.53	
					Back to Work	cflow Selection Launch HyperFlex Conn	ect

Configuring a Static IP Address on HX Data Platform Installer

During a default installation of the VM, the HX Installer will try and automatically obtain an IP address using DHCP. To ensure that you have the same IP address at every boot, you can assign a static IP address on the VM

Use the following commands to configure your network interface (/etc/network/interfaces) with a static IP address. Make sure you change the relevant settings to suit your network.

	Command or Action	Purpose
Step 1	Run the following command: ifdown eth0 .	Warning This step ensures that the interface is down before performing the static IP configuration. Failure to do so could lead to issues during the installation process that may require TAC support.
Step 2	Using your favorite editor, edit the /etc/network/eth0.interface file to match your environment. For example, add the following lines in the file:	<pre>auto eth0 # eth0 interface iface eth0 inet static # configures static IP for the eth0 interface metric 100 address XX.XX.XX # Static IP address fr the installer VM netmask 255.255.0.0 # netmask for the</pre>

Procedure

I

Configuring a Static IP Address on HX Data Platform Installer
Jan ga chano n rhan coc ch ni bata i natori notano.

	Command or Action	Purpose
		Static IP addresss gateway XX.XX.X.X # gateway for the Static IP addresss dns-nameservers XX.XX.X.XXX #DNS name servers used by the HX installer dns-search <dns_search_name>.local # DNS search domain name used by the installer</dns_search_name>
Step 3	Save the file so that the changes take effect.	
Step 4	Run the following command: ifup eth0	
Step 5	Reboot the installer VM.	