# Installation



# 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** *(using HX Data Platform Installer)* | 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.

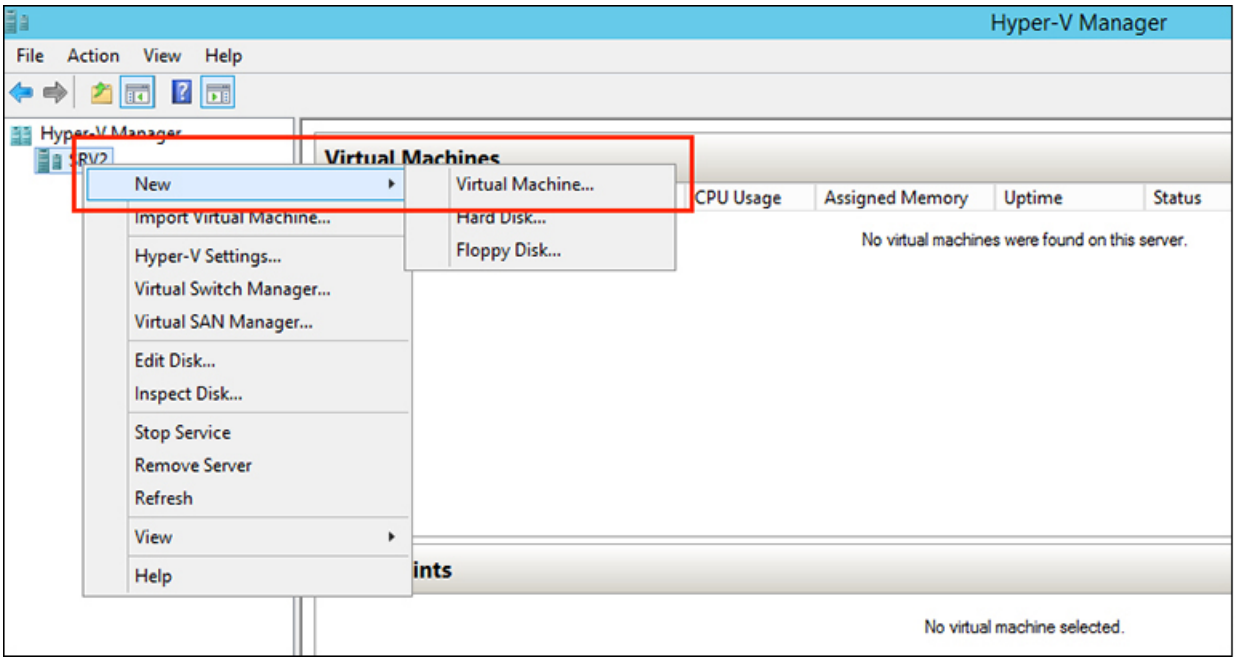
### Procedure

**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.

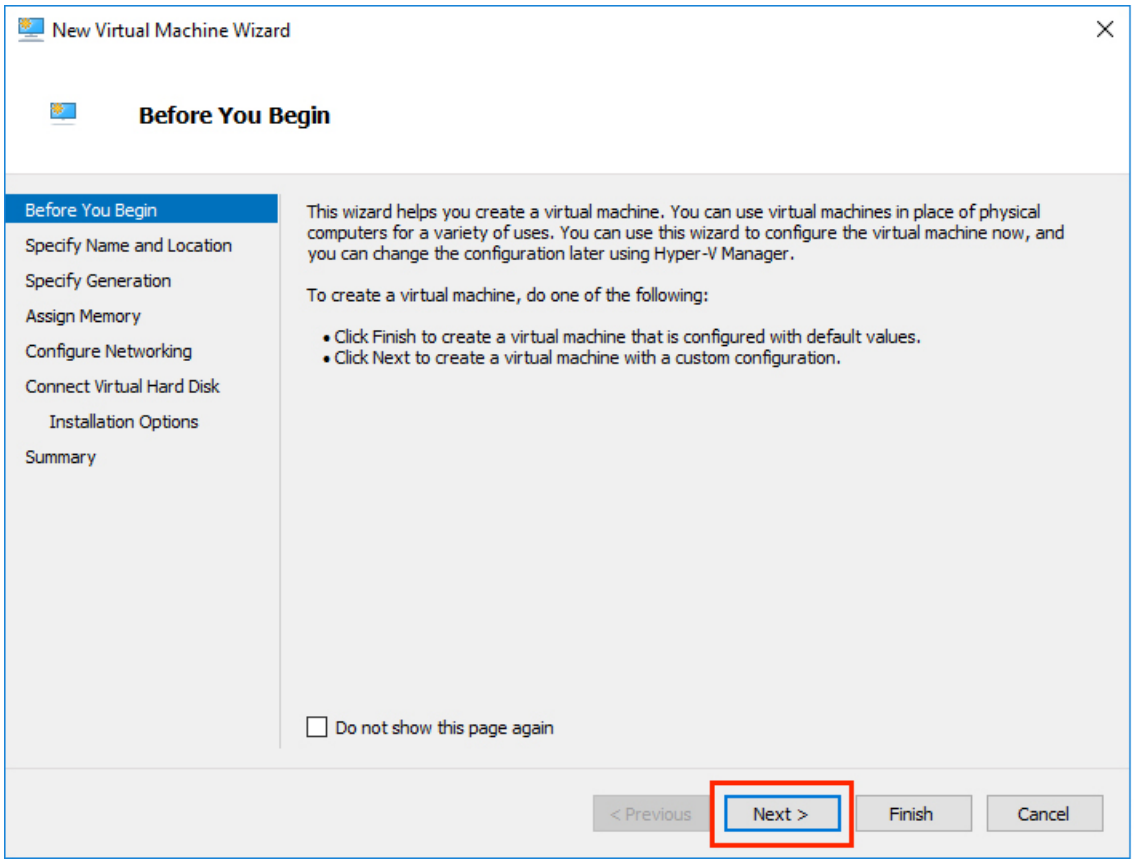
**Step 2** Extract the zipped folder to your local computer and copy the `.vhdx` file to the Hyper-V host where you want to host the HX Data Platform Installer. For example, `\\hyp-v-host01\....\HX-Installer\Cisco-HX-Data-Platform-Installer-v3.0.1a-29499-hyperv.vhdx`

**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.

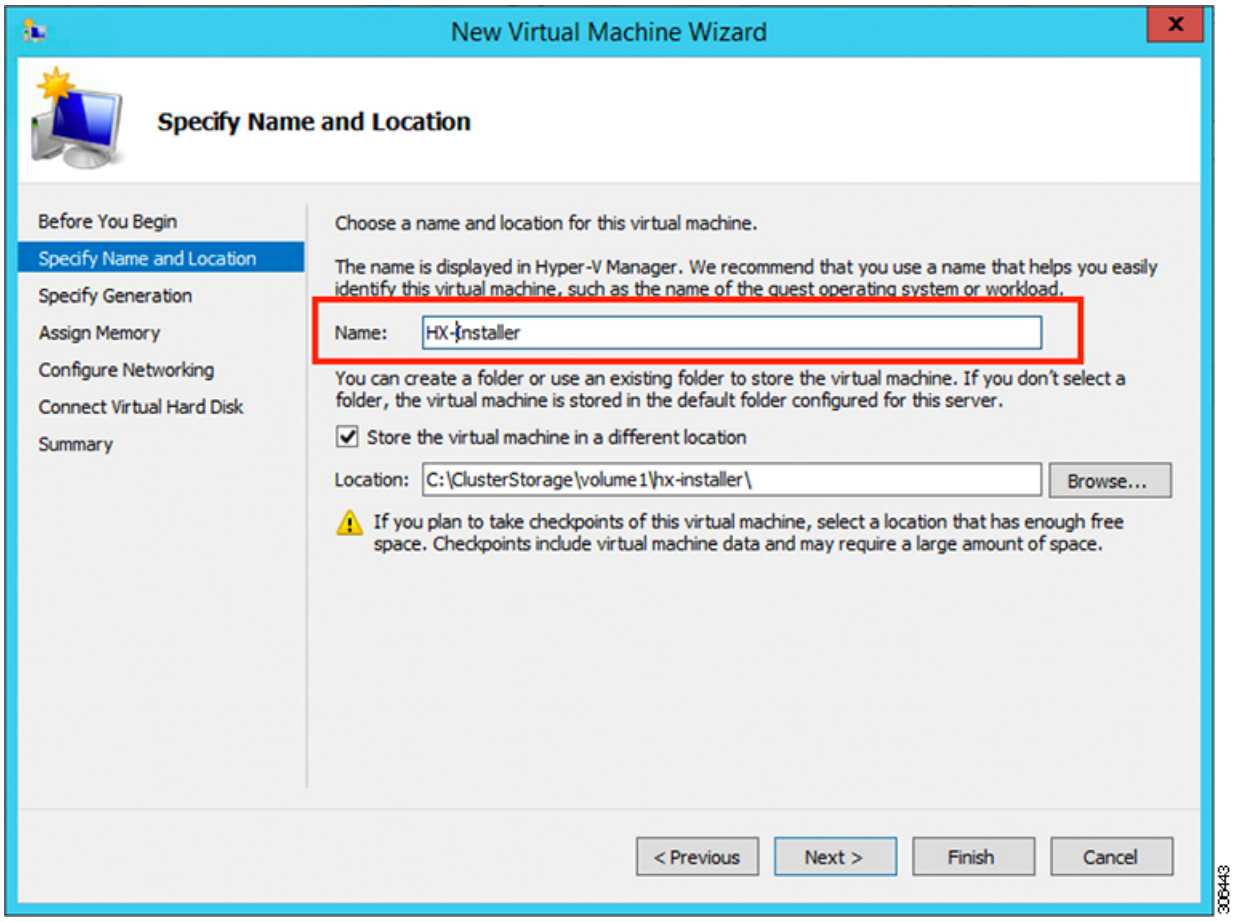



**Step 5** In the **Before you Begin** page, click **Next**.

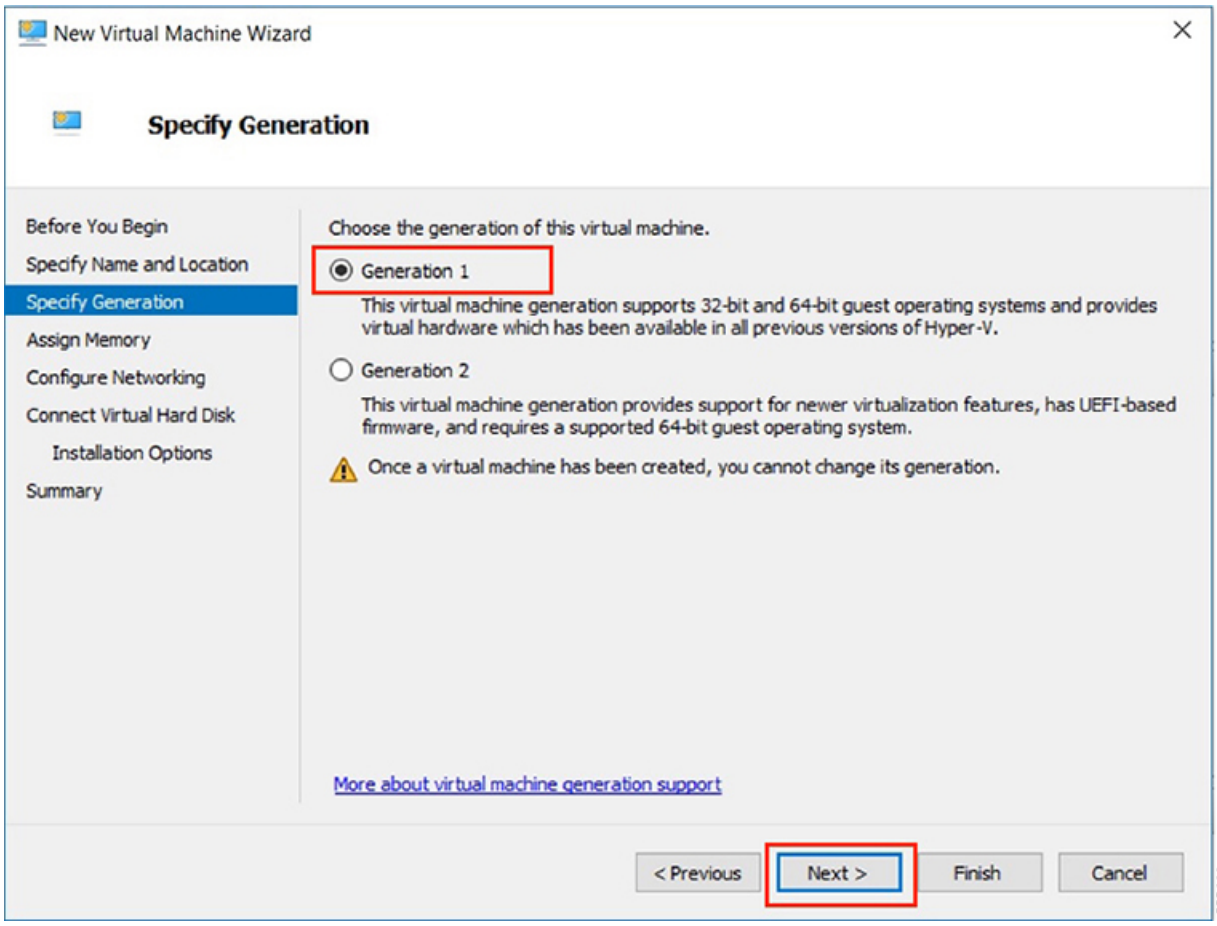



**Step 6** In the **Specify Name and Location** page, enter a name and location for the virtual machine where the virtual machine configuration files will be stored. Click **Next**.

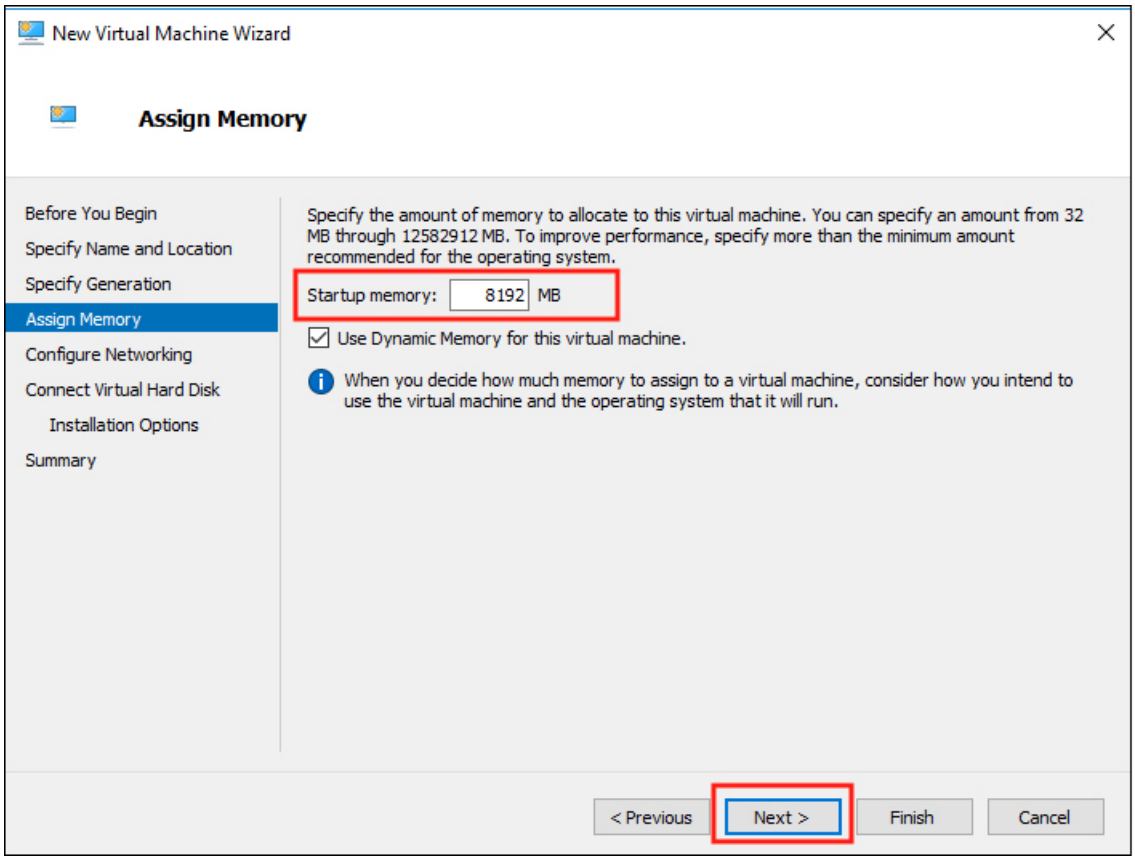
**Note** As a best practice, store the VM together with the `.vhdx` file.



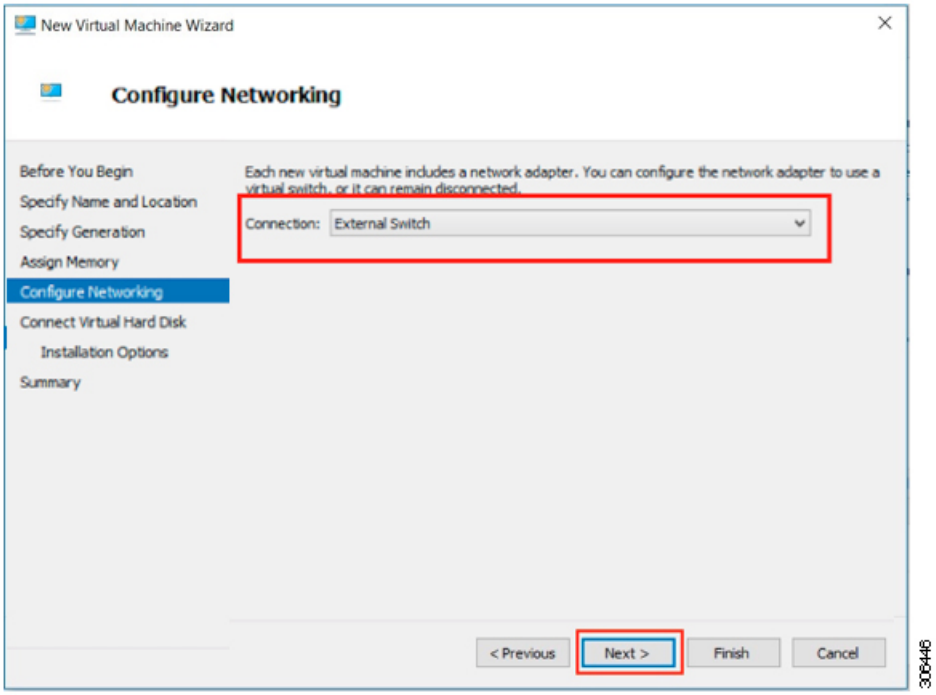

**Step 7** In the **Specify Generation** page, select **Generation 1**. Click **Next**.If you select Generation 2, the VM may not boot.



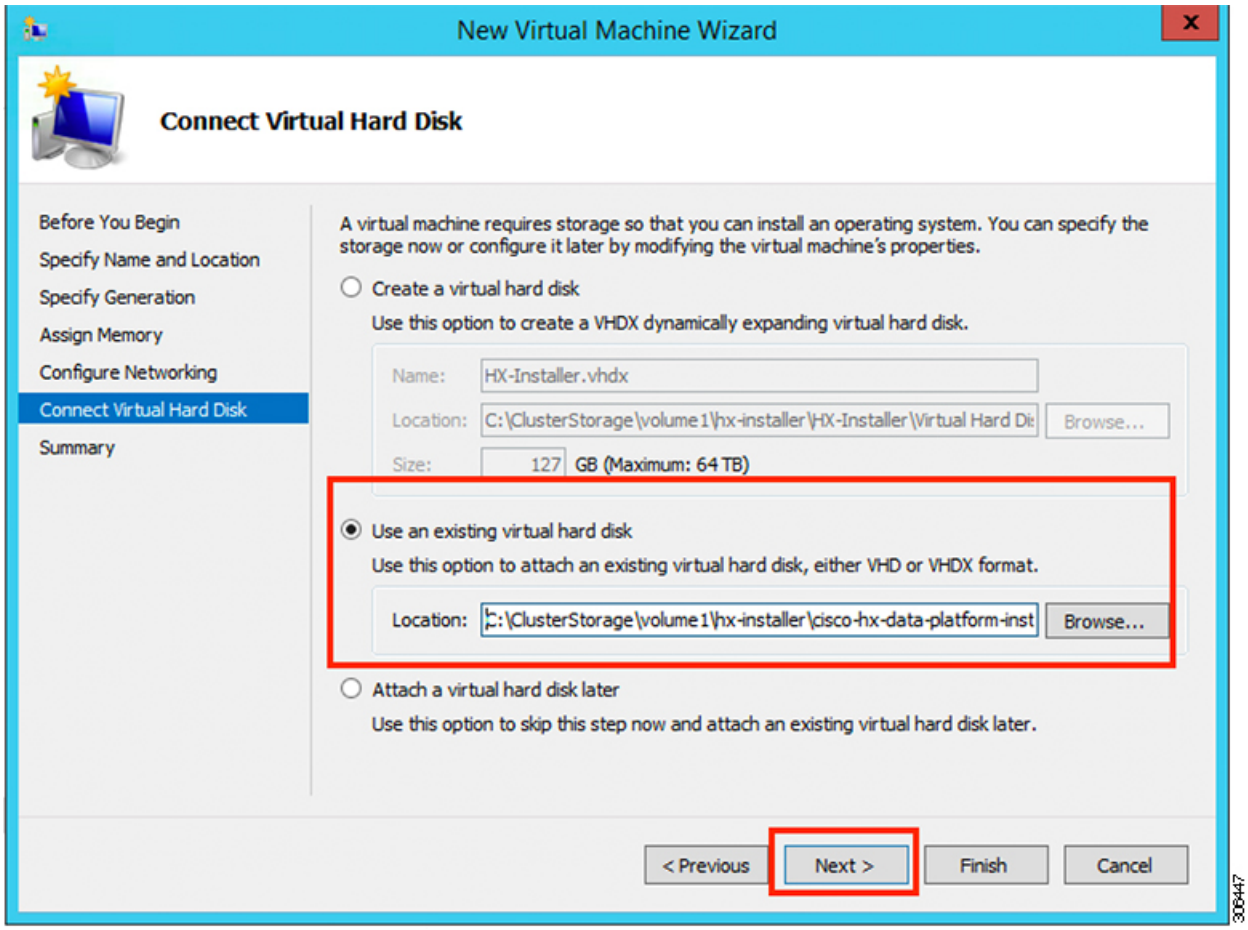

**Step 8** In the **Assign Memory** page, set the start up memory value to `4096 MB`. Click **Next**.



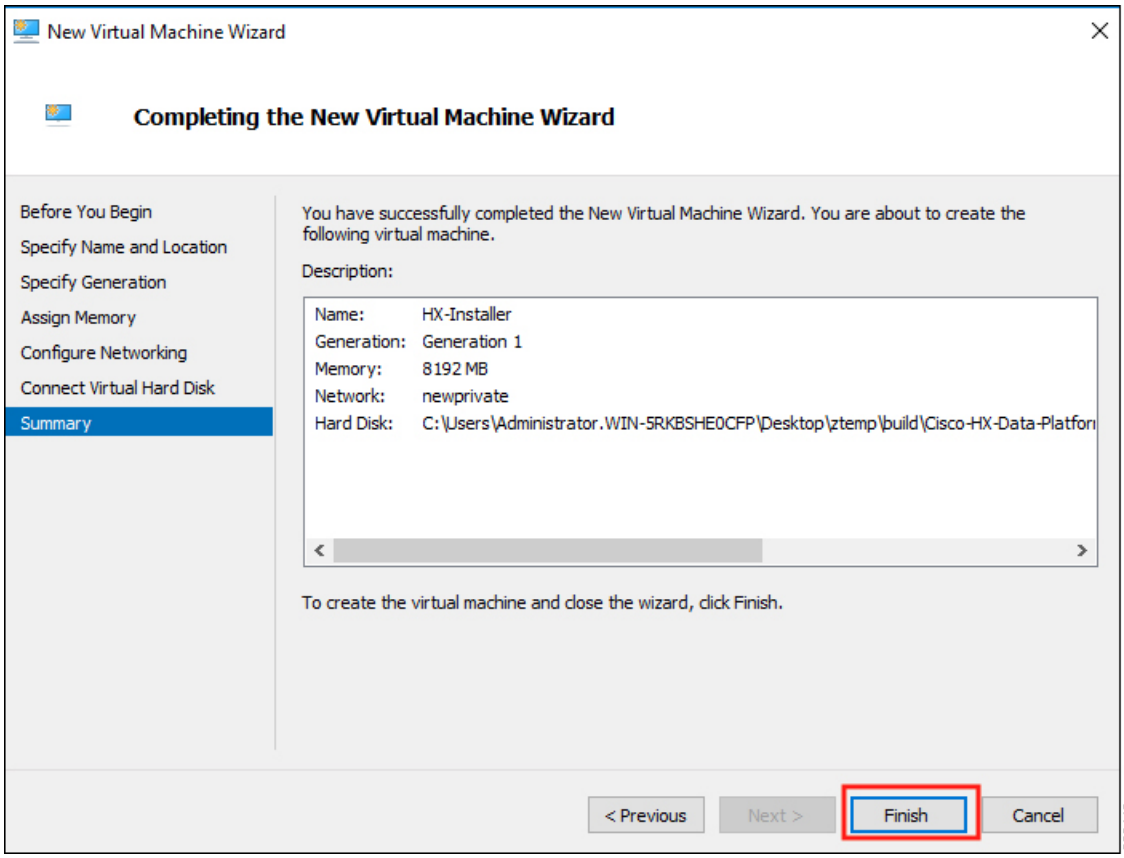

**Step 9** In the **Configure Networking** page, select a network connection for the virtual machine to use from a list of existing virtual switches. Click **Next**.




**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**.




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

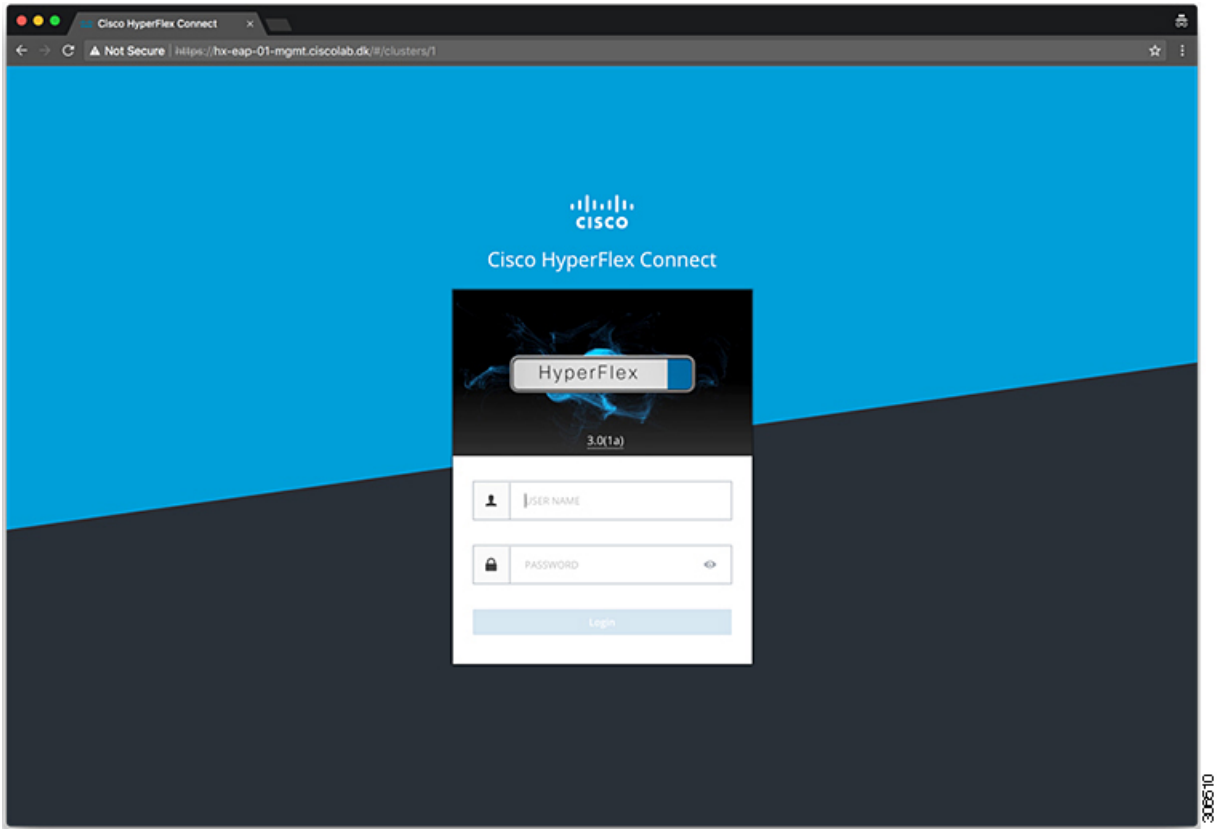
a) In a browser, enter the URL for the VM where HX Data Platform Installer was installed. If you do not have the URL, go back to Step 13 in the earlier section on Step 1 - Deploying HX Data Platform Installer.

b) Use the credentials: `username`: root, `password`: Cisco123

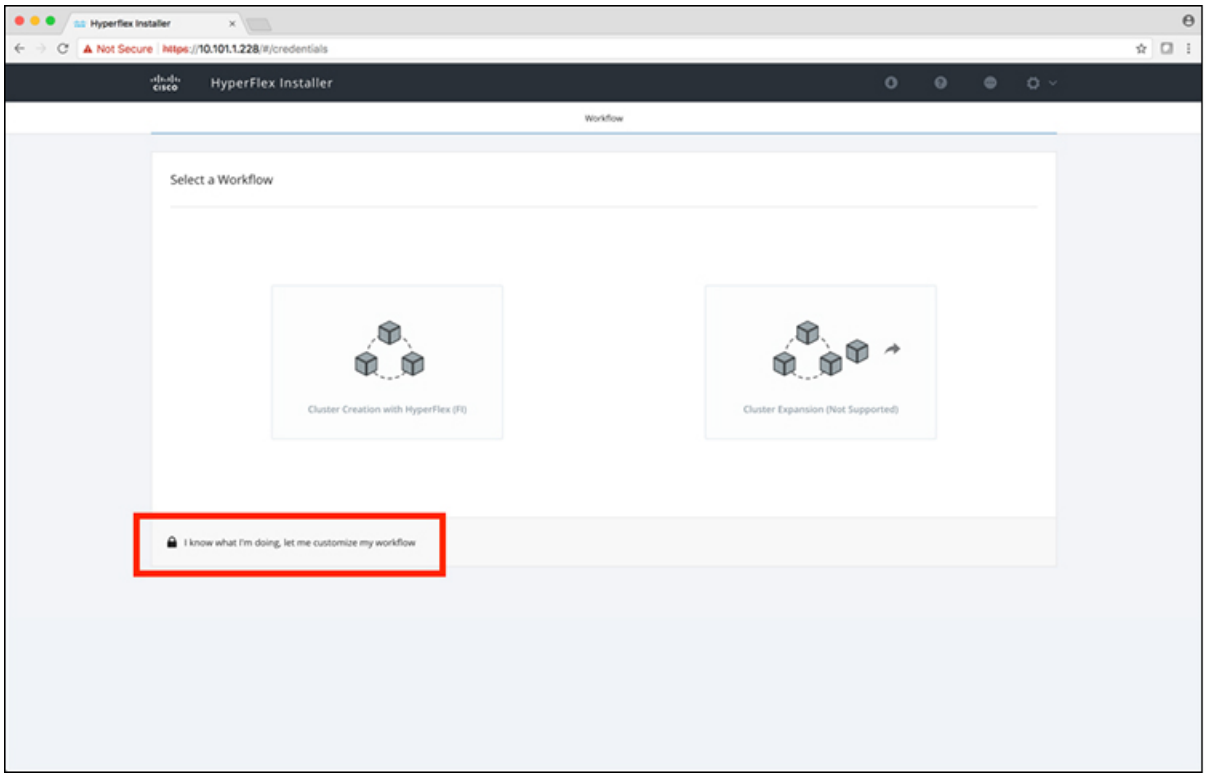
**Important** Systems ship with a default password of `Cisco123` that must be changed during installation. You cannot continue installation unless you specify a new user supplied password.

c) Read the EULA. Click **I accept the terms and conditions**.

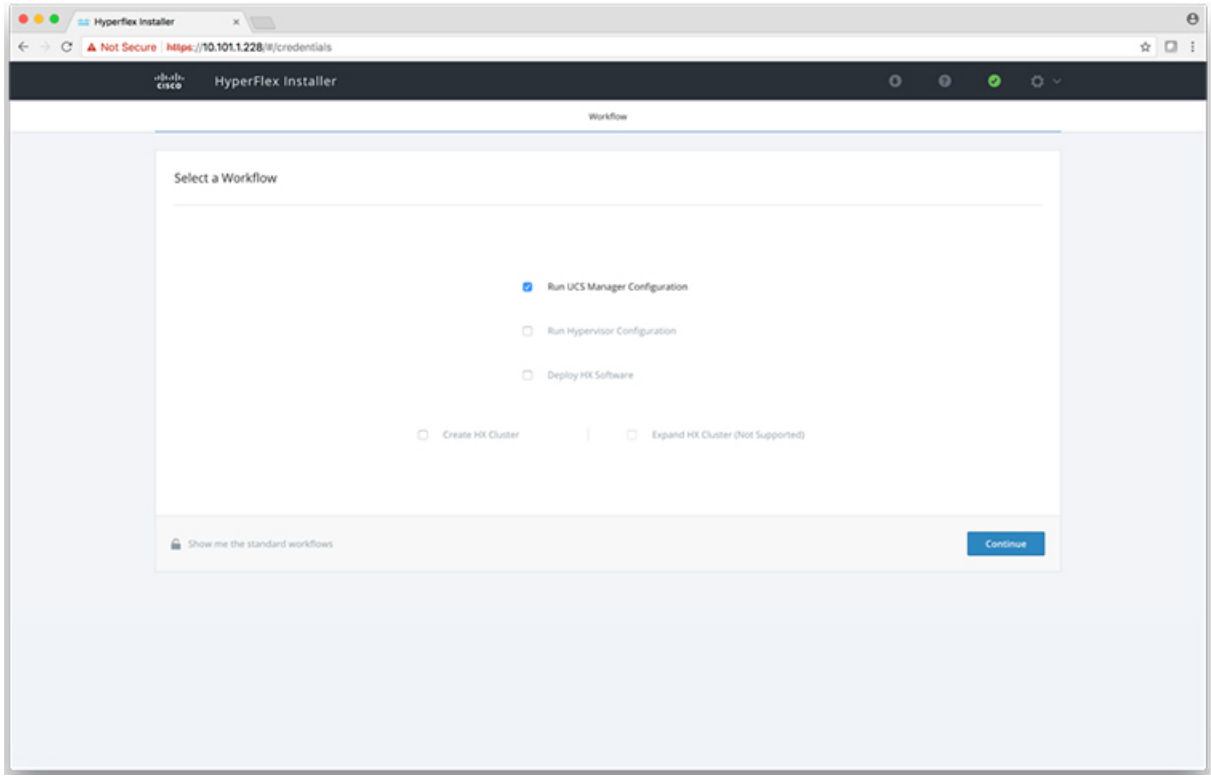
d) Verify the product version listed in the lower right corner is correct. This version must be 3.0(1a) or later. Click **Login**.




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

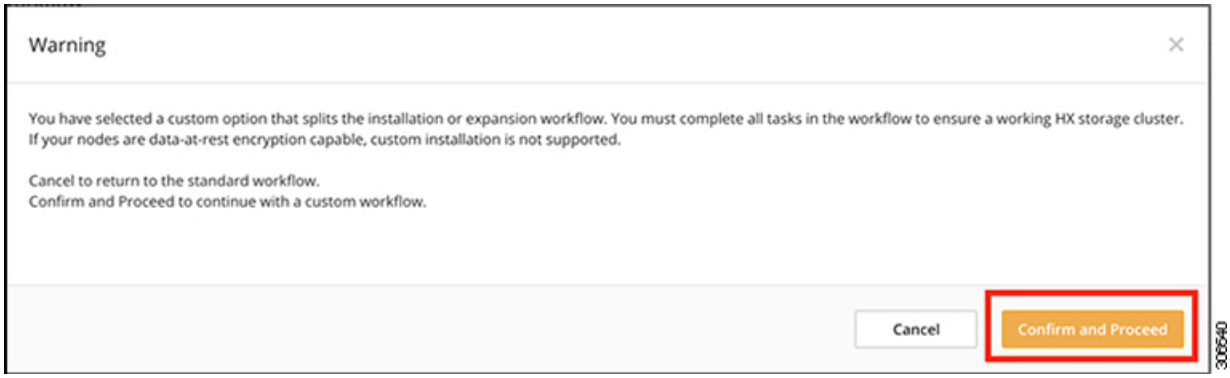



**Step 3** On the next screen, click **Run UCS Manager Configuration** and then **Continue**.



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

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

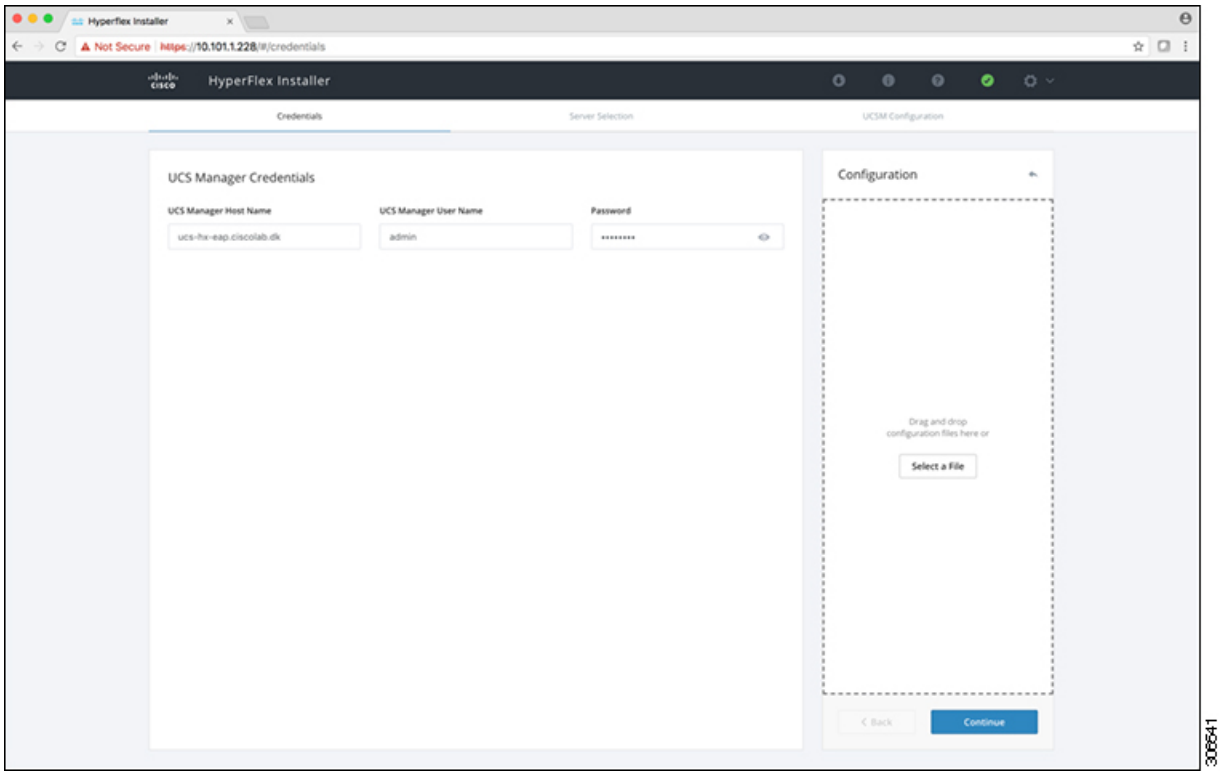



**Step 5** **UCS Manager Credentials**

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.

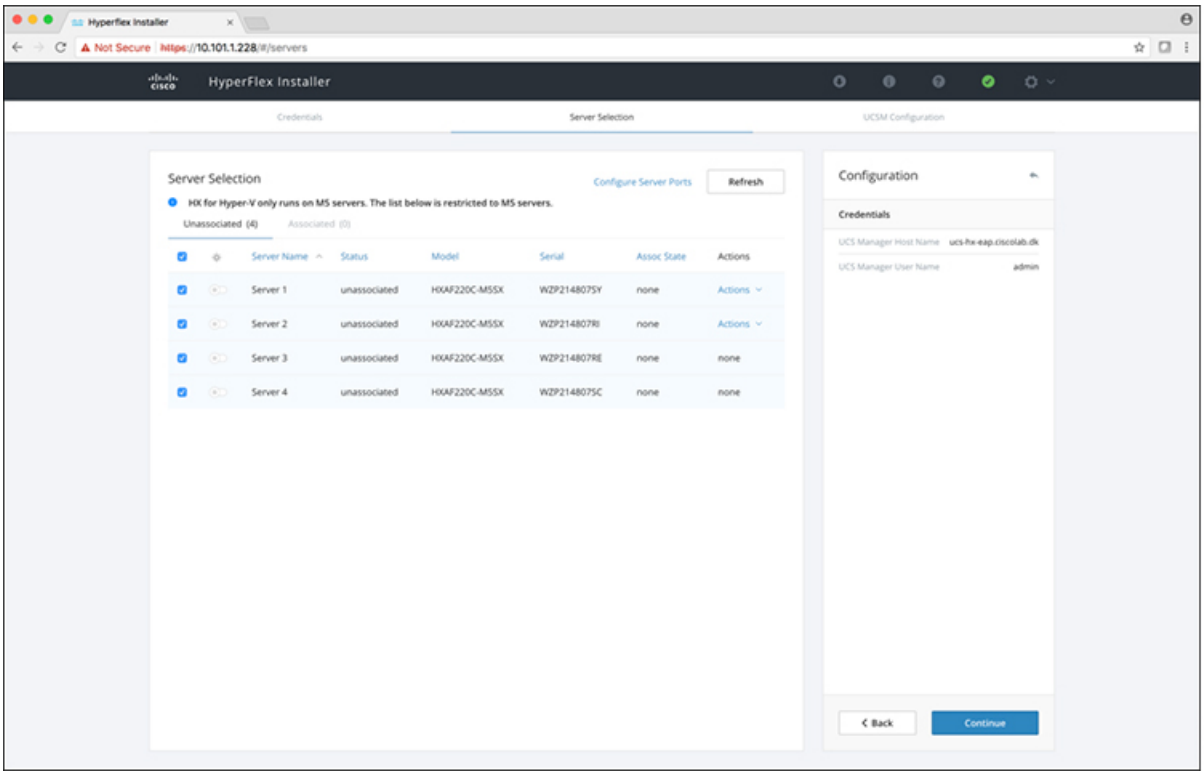
Complete the following fields for UCS Manager.

| 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. |




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**.



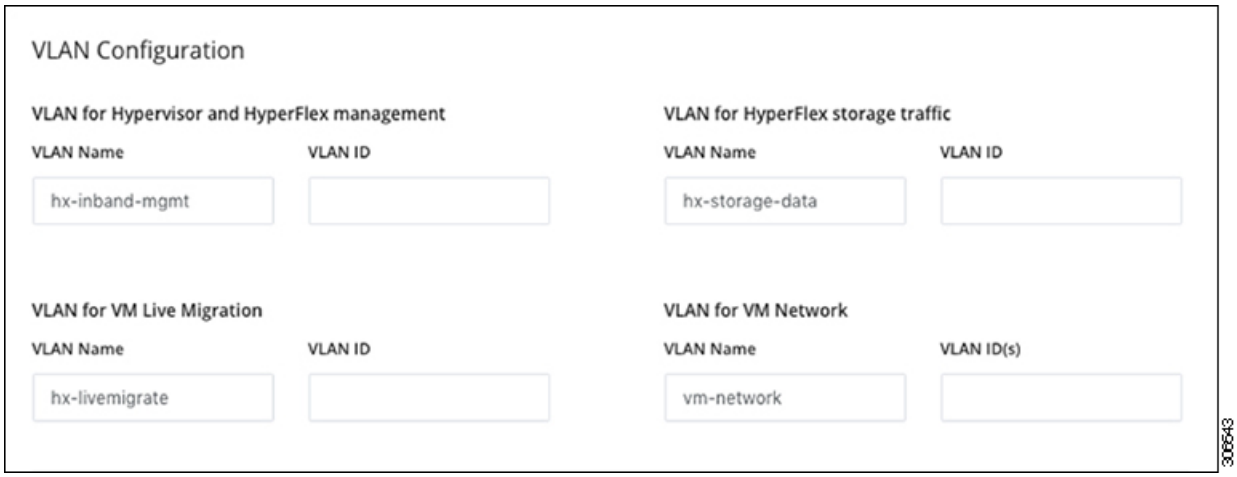

**Note** HyperFlex for Hyper-V does only support M5 Servers.

### 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.




**Note**
- 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.

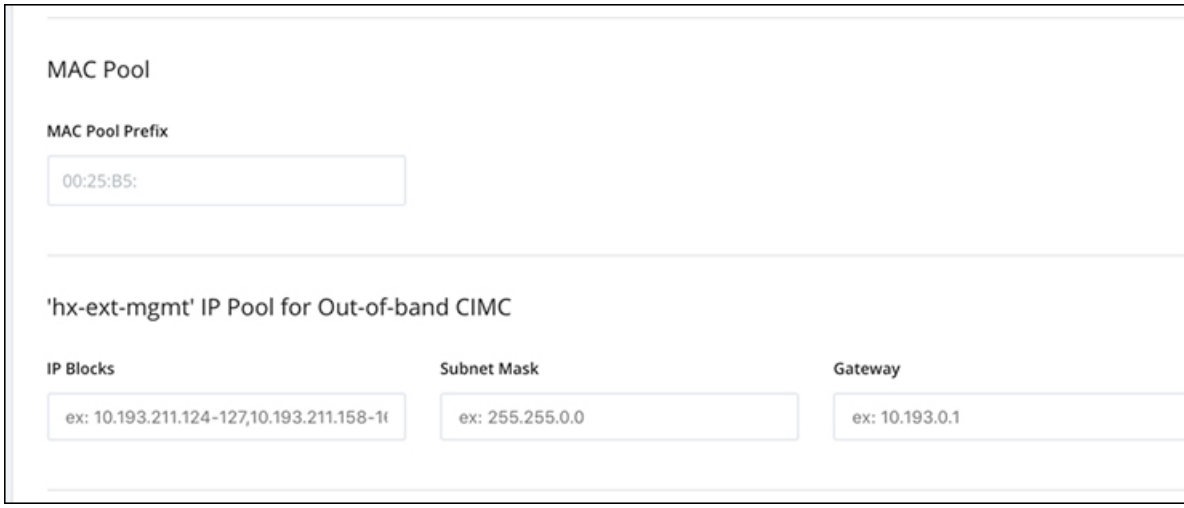
**Caution** Renaming the 4 core networks is not supported.

**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. | 10.193.211.124-.127 |
| 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 |

**Note**

- 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.



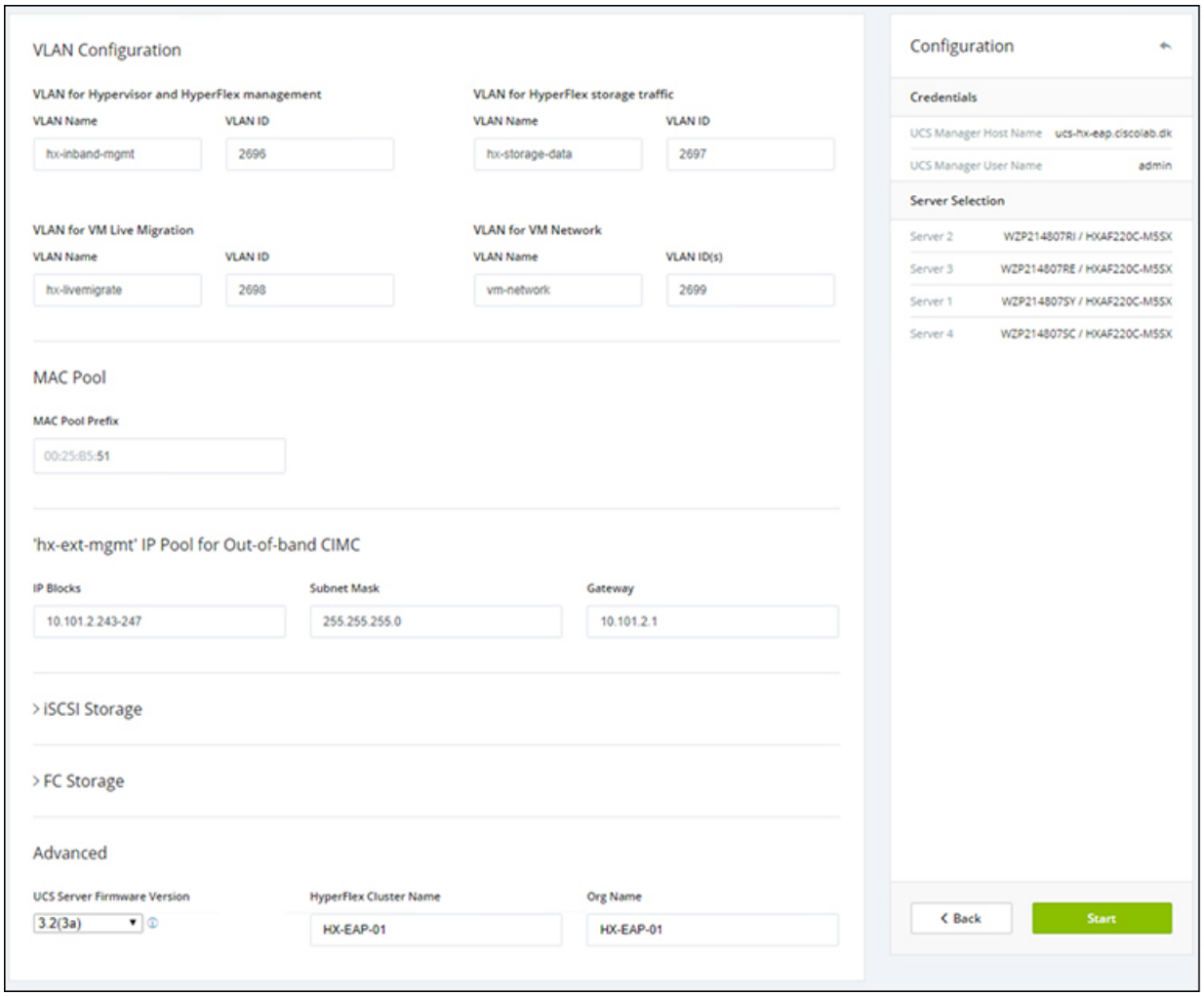

iSCSI Storage and FC Storage are used for adding external storage to the HyperFlex cluster. This is currently n
supported for the Hyper-V Edition.

**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 |

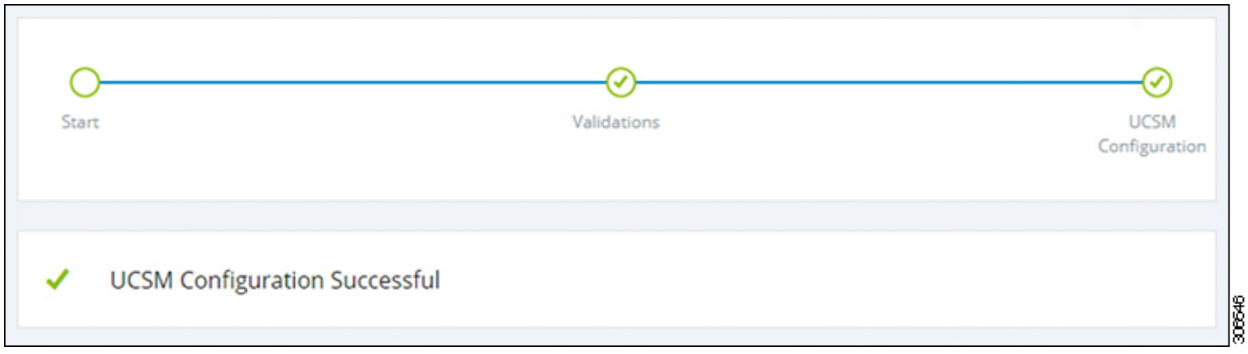
**Note**

- 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).




**Step 9** When you click **Start**, the installer validates your input and then begins configuring the UCS Manager.

**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.



# 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.

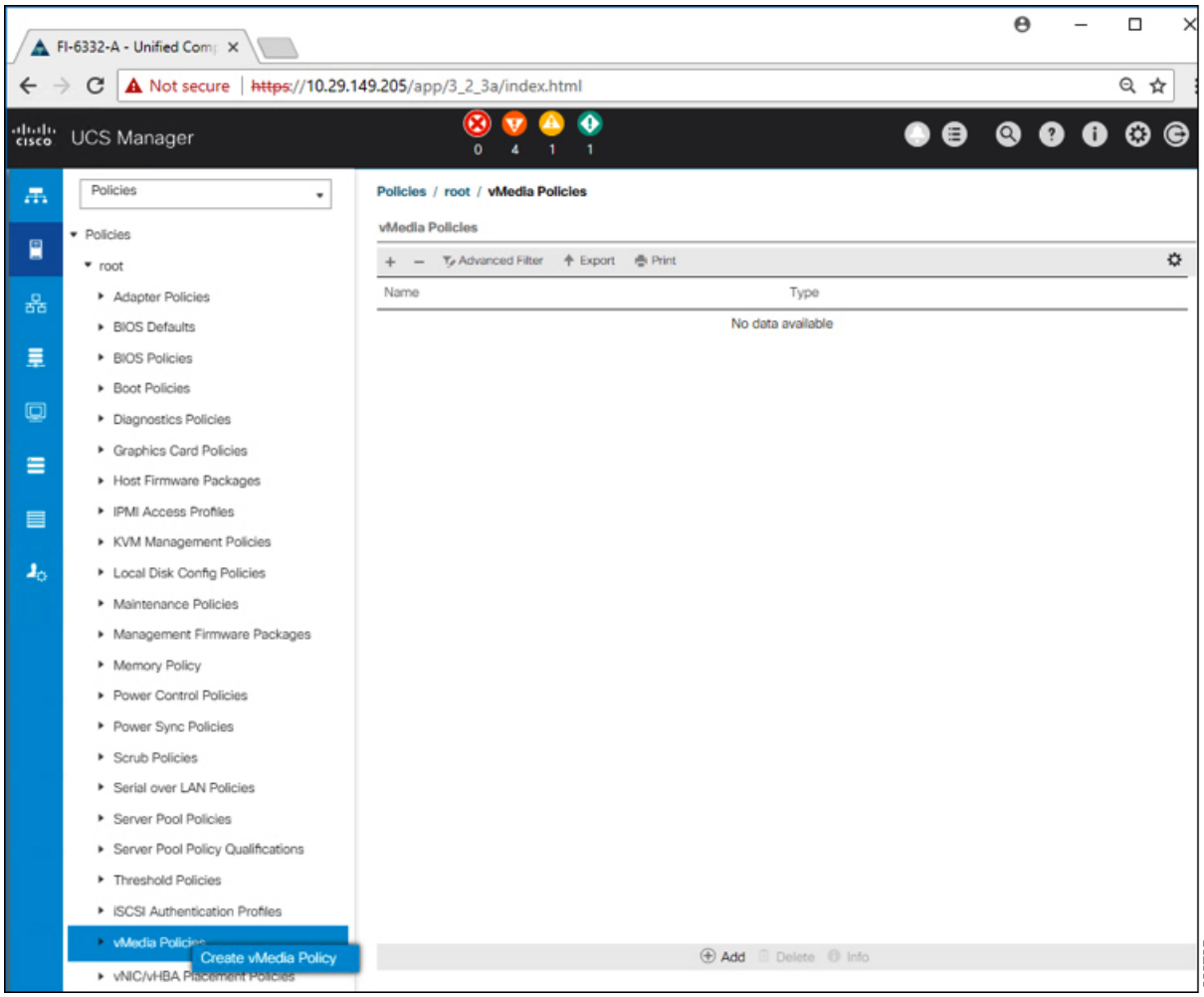
### Procedure

**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**.

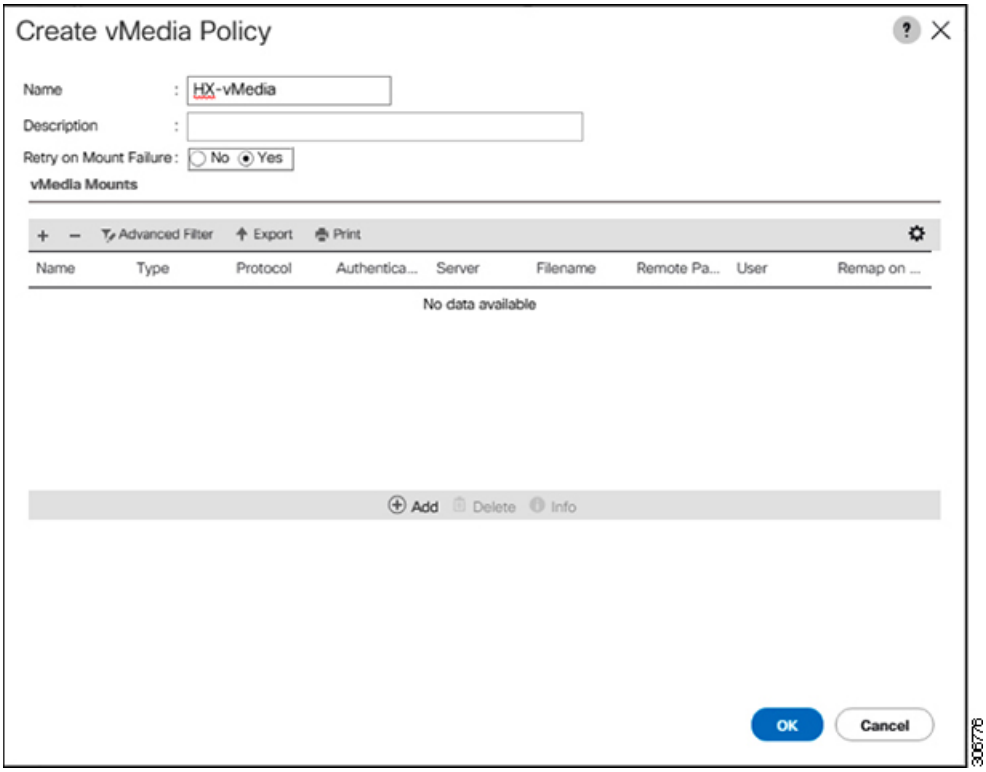



d) In the **Create vMedia Policy** dialog box, complete the following fields:

| Field Name | Description |
|---|---|
| **Name** | The name of the vMedia policy. For example, *HX-vMedia*.<br><br>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:<br>• **Yes**<br>• **No**<br>**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:

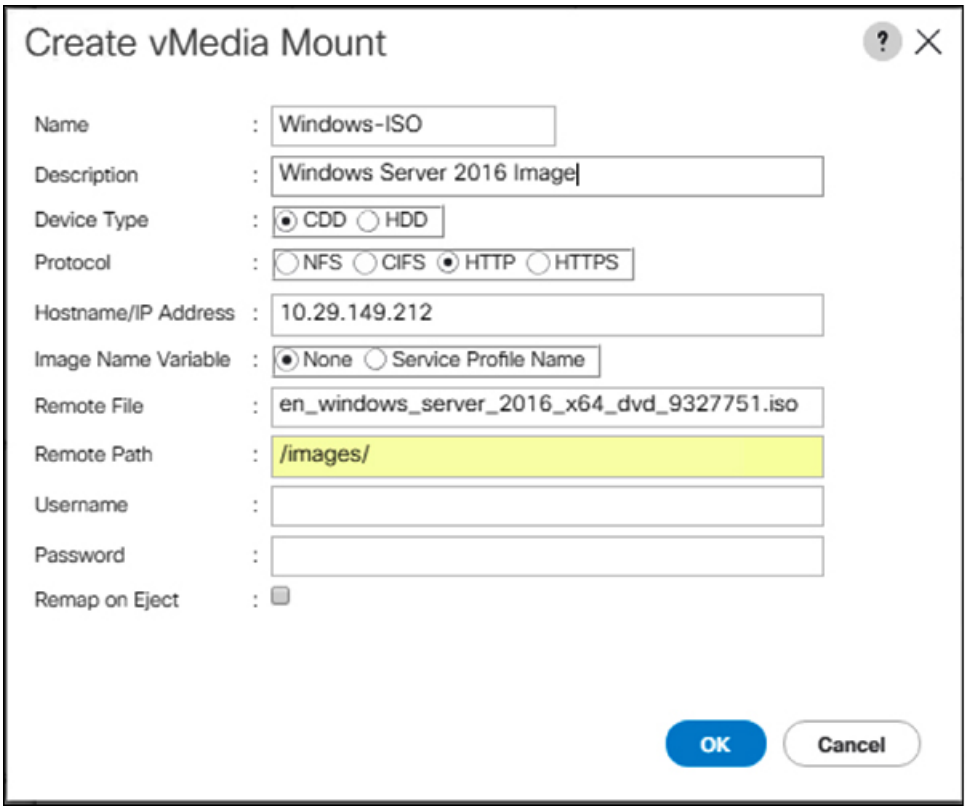



e) On the icon bar under the **vMedia Mounts** pane, click **+ Add**. In the **Create vMedia Mount** dialog box, complete the following fields:

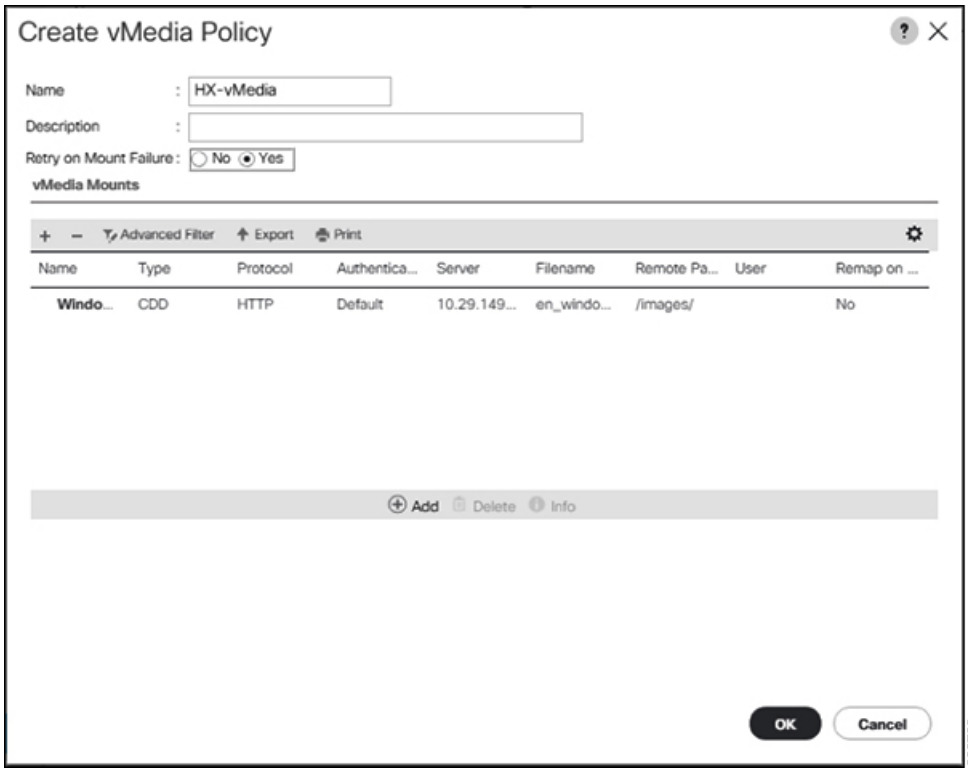
| Field Name | Description | Example Value |
|---|---|---|
| **Name** | Name for the mount point. | Windows-ISO |
| **Description** | Can be used for more information. | Windows Server 2016 image |

| Field Name | Description | Example Value |
|---|---|---|
| **Device Type** | Type of image that you want to mount. This can be:<br>• **CDD**—Scriptable vMedia CD.<br>• **HDD**—Scriptable vMedia HDD. | CDD |
| **Protocol** | The protocol used for accessing the share where the ISO files are located. | HTTP |
| **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:

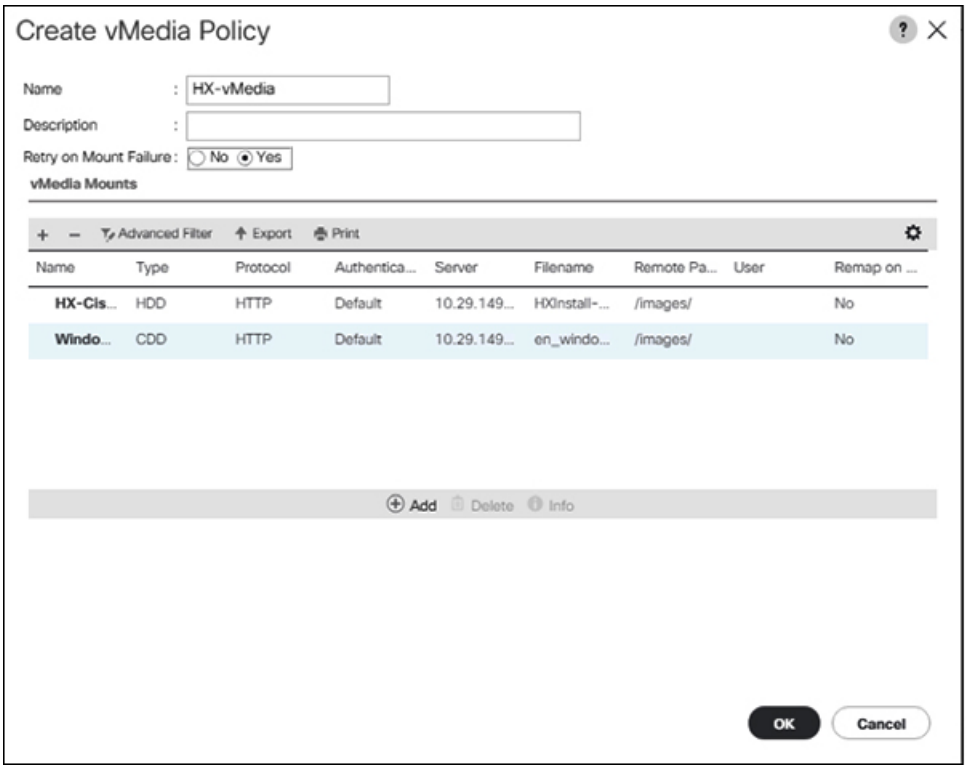



f) Click **OK**. When you click **OK**, you will now be returned to the **vMedia Policies** screen, and you should see the information that you just submitted.



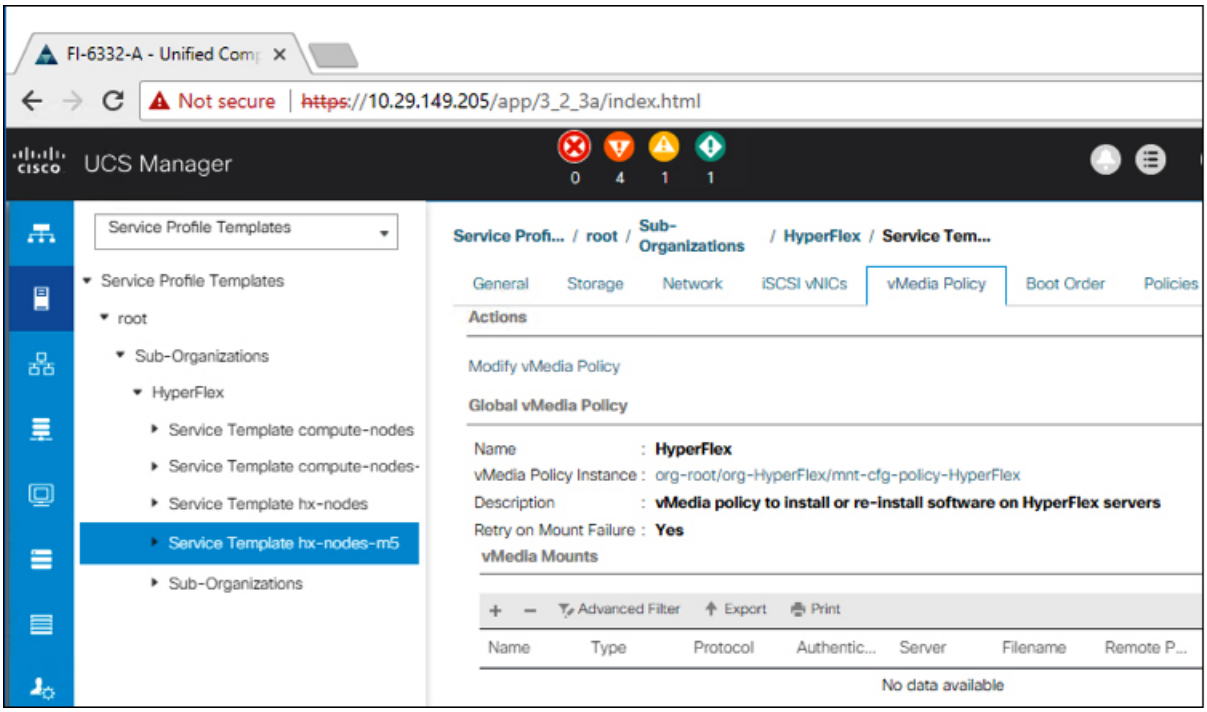

g) Repeat **Steps 2e and 2f**, however, change the type to **HDD** and the remote file name to the **Cisco HyperFlex driver image**.

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:



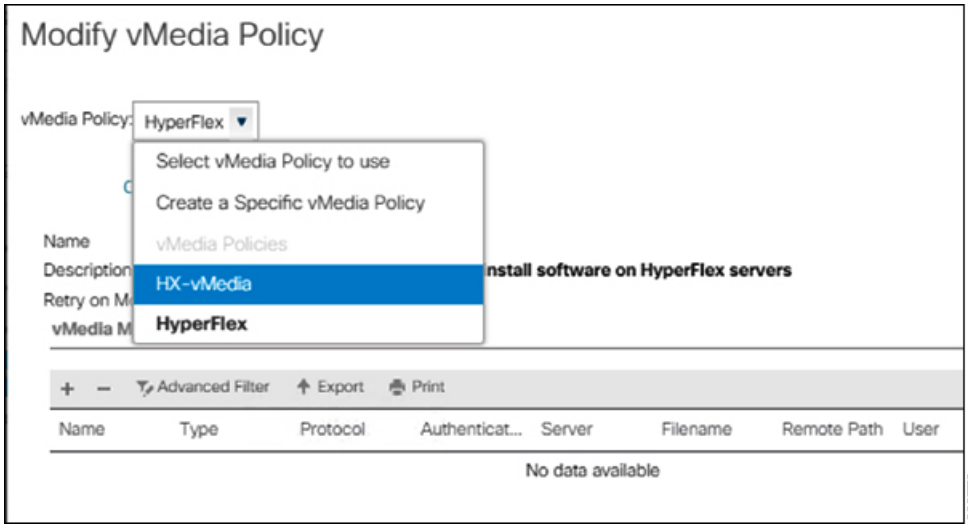

**Step 3** **Associate the vMedia Policy to a Service Profile**:

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)***

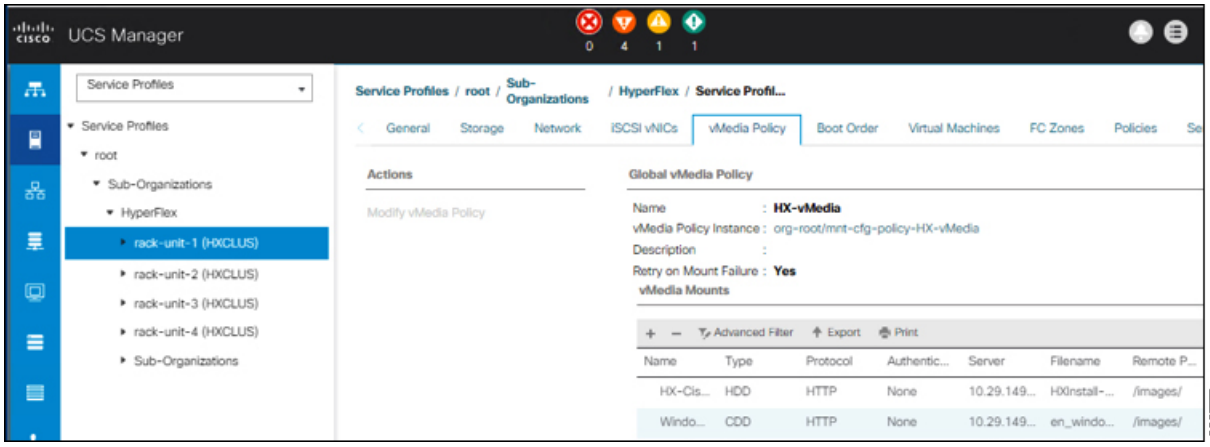


b) Click the **vMedia Policy** tab. Then, click **Modify vMedia Policy**

c) Choose the **vMedia Policy** that you created earlier from the drop-down selection, and click **OK** twice.



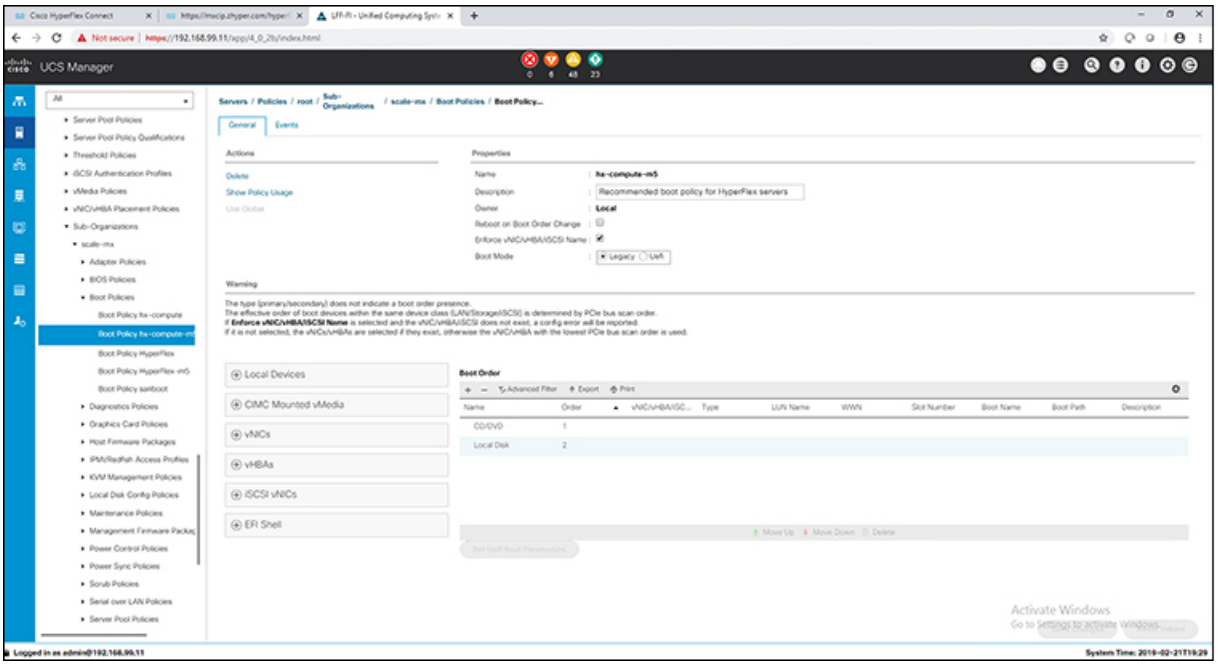

d) Under the **General** tab, verify that the vMedia policy is added to the Service Profile.




**Step 4** **Modify Boot Policy and set the boot order to have CIMC CD/DVD to the list:**

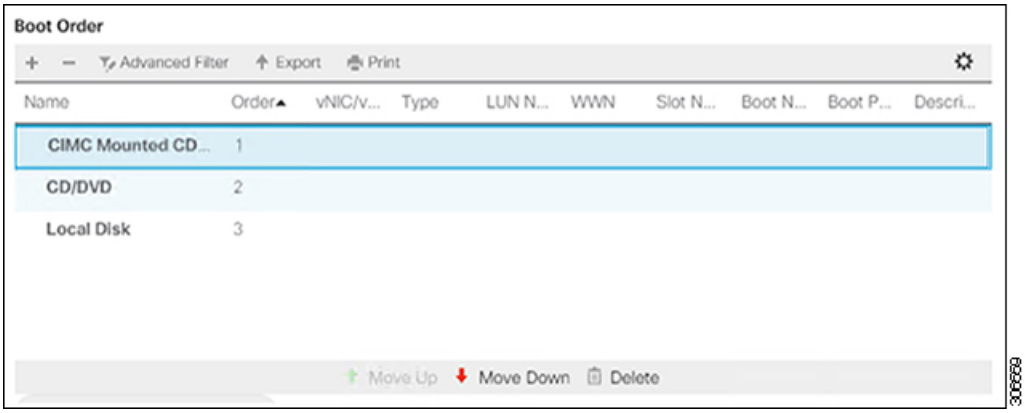
a) In the Navigation pane, click the **Servers** tab.

b) Expand **Servers** > **Policies** > **root** > > **Boot Policies** > ***Boot Policy HyperFlex-m5***




c) 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**.

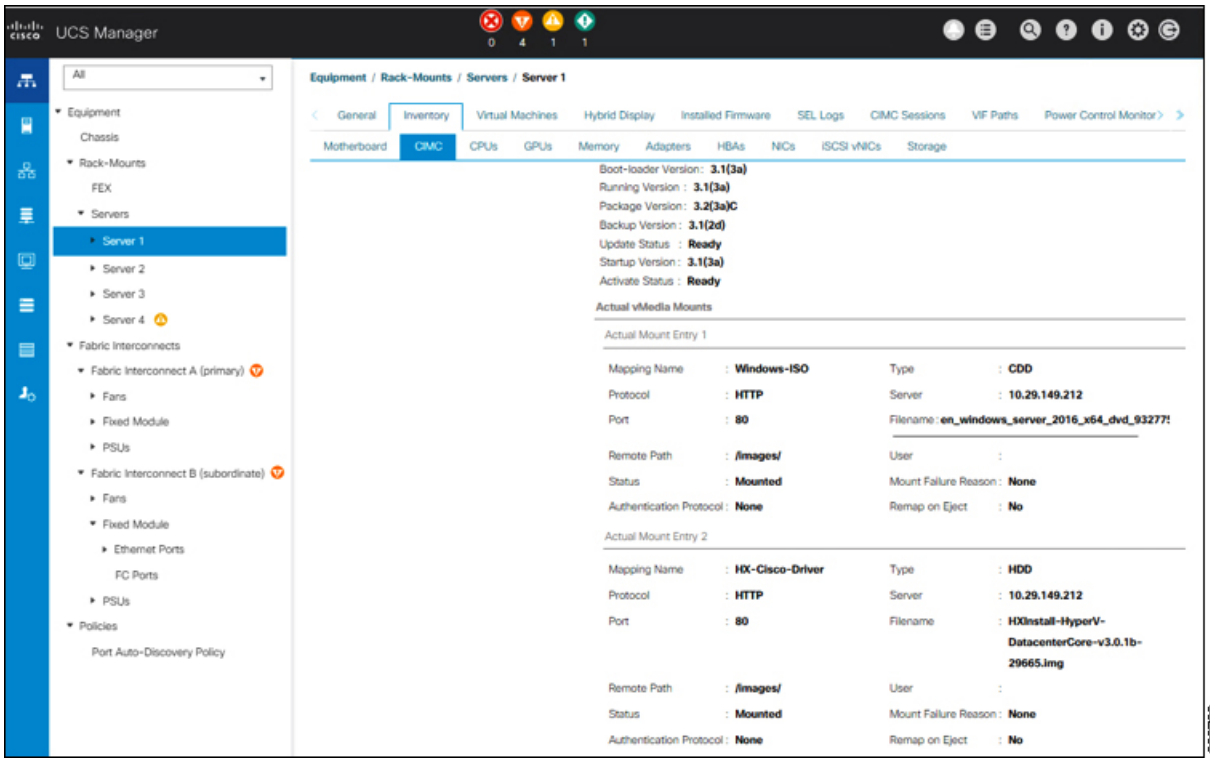



d) Click **Save Changes**, and click **OK** in the **Success** dialog box. The modified boot policy is saved.

**Step 5** **Verify successful vMedia mounting:**

a) On the **Equipment** tab, select one of the servers.

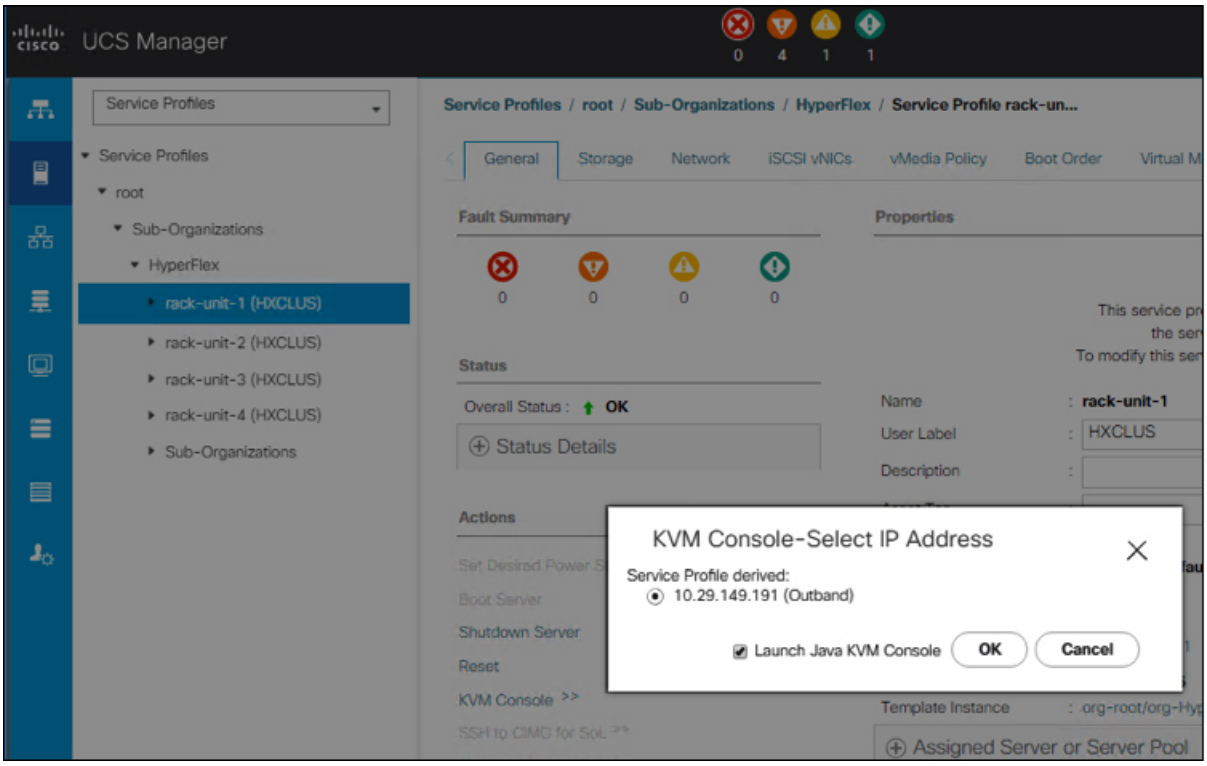
b) Click **Inventory** > **CIMC**, scroll down and ensure for mount entry #1(OS image) and mount entry #2 (Cisco HyperFlex driver image) you see status as **Mounted** and there are no failures.




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** **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 Settings | | |
| 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.<br>**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. | hxadmin |
| 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.<br>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<br>**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.

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

| 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 |

Click **Continue**.

**Step 3** **Cluster Configuration**

a) **Cisco HX Cluster Configuration**.

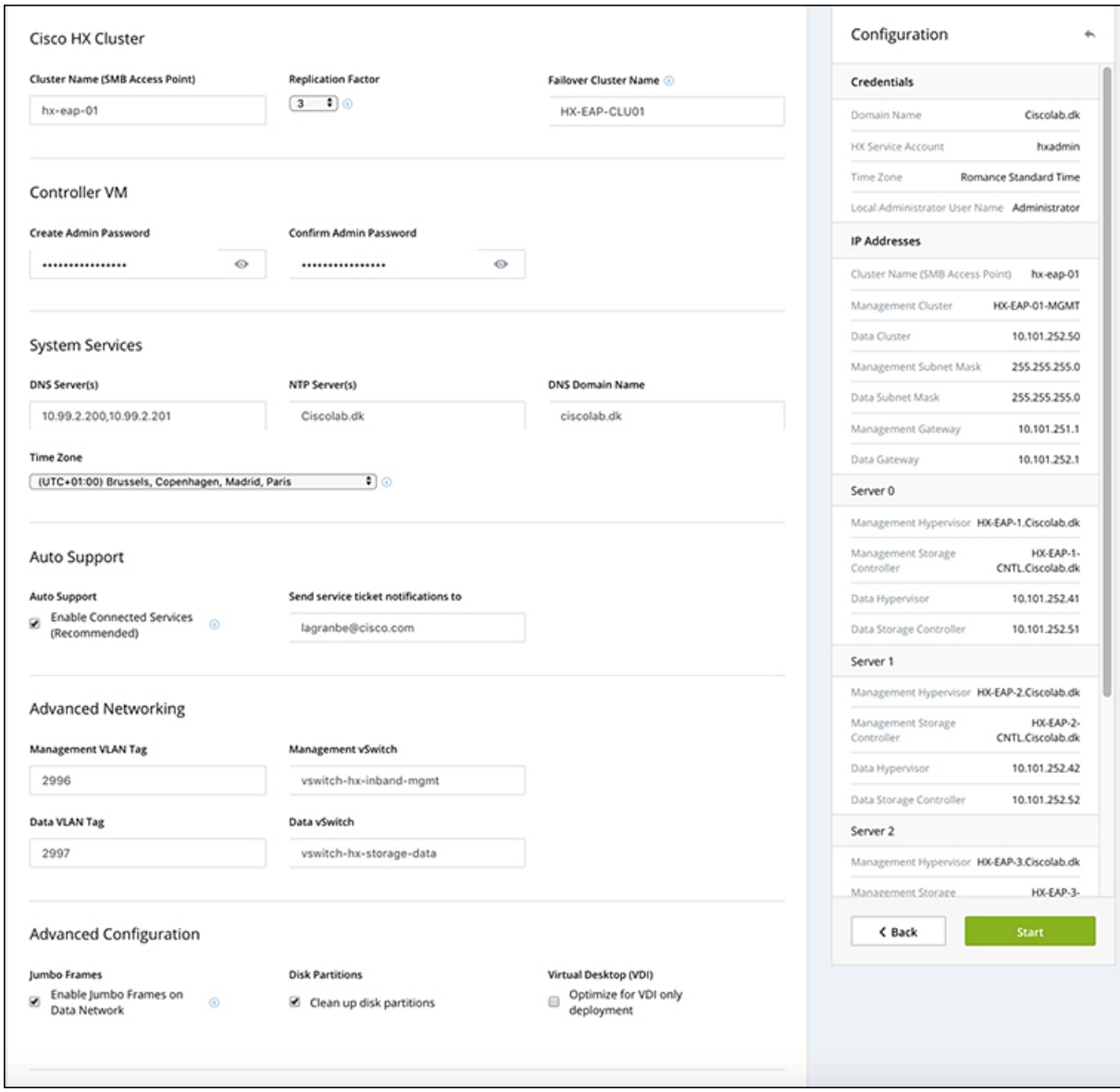
Use the table below to complete the fields in this page.

| 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** | | |
| 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* |

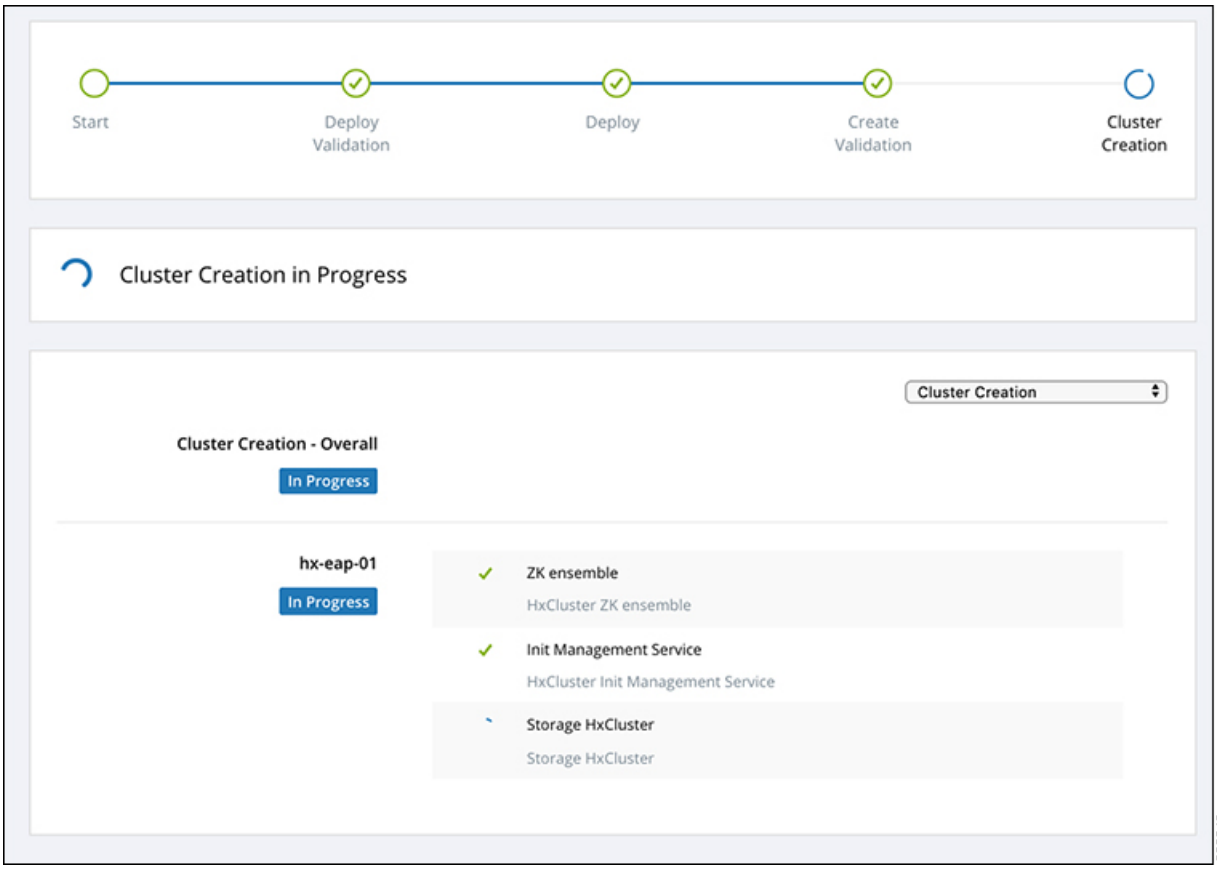
| Field | Description | Example Value |
|---|---|---|
| **Advance Networking** | | |
| Management VLAN tag | VLAN used for the Management Network. This must be the same as used earlier in the installation process for the management network. | |
| Data VLAN tag | VLAN used for the Management network. 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.<br>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.<br>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.



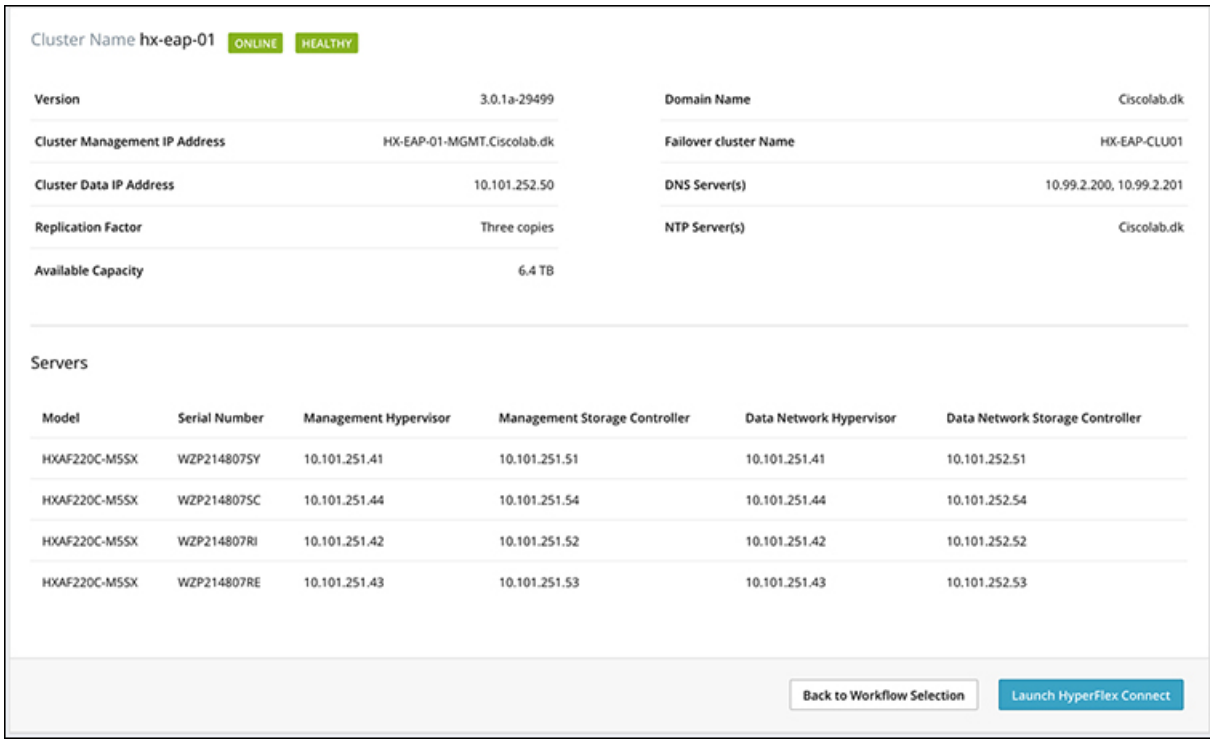

b) Click **Start** to begin the deployment. The **Progress** page displays the progress of the configuration tasks: Start, Deploy Validation, Deploy, Create Validation, Cluster Creation.




**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.




# 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.

### Procedure

| | 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: | `auto eth0 # eth0 interface`<br>`iface eth0 inet static # configures static IP for the eth0 interface`<br>`metric 100`<br>`address XX.XX.XX.XX # Static IP address fr the installer VM`<br>`netmask 255.255.0.0 # netmask for the` |

| | Command or Action | Purpose |
|---|---|---|
| | | `Static IP addresss`<br>`gateway XX.XX.X.X # gateway for the Static IP addresss`<br>`dns-nameservers XX.XX.X.XXX #DNS name servers used by the HX installer`<br>`dns-search <DNS_Search_Name>.local # DNS search domain name used by the installer` |
| **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. | |