

Installing and Upgrading VMware

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Upgrading from VMware Releases 5.x to VMware Release 6.0

The steps to upgrade are as follows:

Note

Do not install VMware vSphere 5.5 Patch 2702864 with Cisco Nexus 1000V. The VMware vSphere 5.5 Patch 2702864 is not supported on Cisco Nexus 1000V.

SUMMARY STEPS

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Installing the vCenter Server

Before You Begin

- Download the upgrade ISO file that contains the ESXi image and the Cisco Nexus 1000V software image files.
- See the *Cisco Nexus 1000V and VMware Compatibility Information* document to determine the correct VIB Version, VEM Bundle, Host Build, vCenter Server, and Update Manager versions.
- **Step 1** Mount the vCenter Server 6.0 ISO image.
- **Step 2** Unzip the ISO image.
- **Step 3** If autorun doesn't start, double-click **autorun.exe**.
- Step 4 In the VMware vCenter Installer window, select vCenter Server for Windows and click Install.
- Step 5 Click Next.
- **Step 6** Accept the license agreements.
- **Step 7** Enter the vCenter Single Sign On password and the service account password if applicable and click Next.
- **Step 8** After the pre-upgrade checks are complete, accept the default ports and click **Next**.
- **Step 9** Check the box to verify that you have backed up this vCenter Server and its database and click **Upgrade**.
- Step 10 Click Finish.

What to Do Next

Complete the steps in Upgrading the vSphere Client, on page 3.

Upgrading the vSphere Client

Step 1 Run the vSphere Client installer.

- Start the vCenter Server installer. Double-click the autorun.exe file and select vSphere Client.
- If you downloaded the vSphere Client, double-click the VMware-viclient-build number.exe file.

Step 2	Click Next.
Step 3	Accept the terms in the license agreements and click Next.
Step 4	Click Next.
Step 5	Click Install.
Step 6	Click Finish after the installation completes.

What to Do Next

Complete the steps in Upgrading the vCenter Update Manager to Release 6.0, on page 3.

Upgrading the vCenter Update Manager to Release 6.0

Before You Begin

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You have upgraded the vCenter Server to the vSphere Client to a compatible version.

SUMMARY STEPS

- 1. In the VMware vCenter Installer window, select vCenter Update Manager Server and check Use Microsoft SQL Server 2012 Express as the embedded database.
- 2. Click Install.
- 3. Choose a language and click OK. The vCenter Update Manager Installer appears.
- 4. Click OK.
- 5. Click Next to being the upgrade.
- 6. View the patent agreement and click Next.
- 7. Click the I agree to the terms in the license agreement radio button and click Next.
- 8. Verify the IP address and username in the VMware vCenter Server Information area .
- 9. In the Password field, enter your password and click Next.
- 10. Click Next.
- 11. Click the Yes, I want to upgrade my Update Manager database radio button and click Next.
- 12. Verify the Update Manager port settings and click Next.
- 13. Verify the proxy settings and click Next.
- 14. Click Install to begin the database upgrade.
- **15.** Click **OK** to acknowledge that a reboot will be required to complete the setup. During the upgrade, the vSphere Client is disconnected.
- **16.** Click **Cancel** for the attempt to reconnect.
- 17. Click OK in the Server Connection Invalid window.
- 18. Click Finish.
- **19.** Reboot the vCenter Update Manager and vCenter Server.
- **20.** Select **Other (Planned)** from the Option drop-down list in the Shut Down Windows dialog box and enter a value in the comment field.
- 21. Click OK.
- **22.** After the system reboots, navigate to the C:\ProgramData\VMware Update Manager\Logs\folder and open the vmware-vum-server-log4cpp file.
- 23. Choose Manage Plug-ins from the VMware vCenter Server's Plug-in menu.
- 24. Click Download and Install for VMware vSphere Update Manager Extension under Available Plug-ins..

DETAILED STEPS

 Step 1
 In the VMware vCenter Installer window, select vCenter Update Manager Server and check Use Microsoft SQL
 Server 2012 Express as the embedded database.

Note If the Installer window is not open, run the autorun.exe file.

Step 2	Click Install.
Step 3	Choose a language and click OK. The vCenter Update Manager Installer appears.
Step 4	Click OK.
Step 5	Click Next to being the upgrade.
Step 6	View the patent agreement and click Next.
Step 7	Click the I agree to the terms in the license agreement radio button and click Next.
Step 8	Verify the IP address and username in the VMware vCenter Server Information area.
Step 9	In the Password field, enter your password and click Next.
Step 10	Click Next.
Step 11	Click the Yes, I want to upgrade my Update Manager database radio button and click Next.
Step 12	Verify the Update Manager port settings and click Next.
Step 13	Verify the proxy settings and click Next.
Step 14	Click Install to begin the database upgrade.
Step 15	Click OK to acknowledge that a reboot will be required to complete the setup. During the upgrade, the vSphere Client is disconnected.
Step 16	Click Cancel for the attempt to reconnect.
Step 17	Click OK in the Server Connection Invalid window.
Step 18	Click Finish.
Step 19	Reboot the vCenter Update Manager and vCenter Server.
Step 20	Select Other (Planned) from the Option drop-down list in the Shut Down Windows dialog box and enter a value in the comment field.
Step 21	Click OK.
Step 22	After the system reboots, navigate to the C:\ProgramData\VMware Update Manager\Logs\folder and open the vmware-vum-server-log4cpp file.
Step 23	Choose Manage Plug-ins from the VMware vCenter Server's Plug-in menu.
Step 24	Click Download and Install for VMware vSphere Update Manager Extension under Available Plug-ins
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What to Do Next

Complete the steps in Creating a Customized Upgrade ISO with a VMware ESX Image and a Cisco Nexus 1000V VEM Image, on page 5.

Creating a Customized Upgrade ISO with a VMware ESX Image and a Cisco Nexus 1000V VEM Image

Before You Begin

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- Install the VMware PowerCLI on a Windows platform. For more information, see the *vSphere PowerCLI* Installation Guide.
- On the same Windows platform, where the VMware PowerCLI is installed, do one of the following:
 - Download the ESX depot, which is a .zip file, to a local file path.

• Download the VEM offline bundle, which is a .zip file, to a local file path.

- **Step 1** Start the VMWare PowerCLI application.
- **Step 2** Run the **Set-ExecutionPolicy unrestricted** command.
- **Step 3** Connect to the vCenter Server by using the Connect-VIServer *IP_address* -User Administrator -Password *password name* command.
- **Step 4** Load the ESXi depot by using the **Add-ESXSoftwareDepot** path name/file name command.
- **Step 5** Display the image profiles by using the **Get-EsxImageProfile** command.
- **Step 6** Clone the ESX standard image profile by using the New-ESxImageProfile -CloneProfile *ESXImageProfile_name* -Name *clone_profile* command.
 - **Note** The image profiles are usually in READ-ONLY format. You must clone the image profile before adding the VEM image to it.
- **Step 7** Load the Cisco Nexus 1000V VEM offline bundle by using the **Add-EsxSoftwareDepot** VEM offline bundle command.
- **Step 8** Confirm that the n1kv-vib package is loaded by using the **Get-EsxSoftwarePackage -Name** package name command.
- **Step 9** Bundle the n1kv-package into the cloned image profile by using the Add-EsxSoftwarePackage -ImageProfile n1kv-Image -SoftwarePackage cloned_image_profile command.
- **Step 10** Verify that the Cisco VIB is present by listing all the VIBs in the cloned image profile by entering the following commands.
 - a) **\$img = Get-EsxImageProfile** *n1kv-Image*
 - b) **\$img.vibList**

Verify that the Cisco VIB is present by listing all the VIBs in the cloned image profile.

Step 11 Export the image profile to an ISO file by using the **Export-EsxImageProfile -ImageProfile** *nlkv-Image* **-FilePath** *iso_filepath* command.

This example shows how to create an upgrade ISO with a VMware ESX image and a Cisco VEM image.



The example may contain Cisco Nexus 1000V versions and filenames that are not relevant to your release. Refer to the *Cisco Nexus 1000V and VMware Compatibility Information* for your specific versions and filenames.

vSphere PowerCLI> Connect-VIServer 10.105.231.40 -User administrator -Password 'XXXXXXXX

Working with multiple default servers?

Select [Y] if you want to work with more than one default servers. In this case, every time when you connect to a different server using Connect-VIServer, the new server connection is stored in an array variable together with the previously connected servers. When you run a cmdlet and the target servers cannot be determined from the specified parameters, the cmdlet runs against all servers stored in the array variable.

Select [N] if you want to work with a single default server. In this case, when you run a cmdlet and the target servers cannot be determined from the specified parameters, the cmdlet runs against the last connected server.

WARNING: WORKING WITH MULTIPLE DEFAULT SERVERS WILL BE ENABLED BY DEFAULT IN A FUTURE RELEASE. You can explicitly set your own preference at any time by using the DefaultServerMode parameter of Set-PowerCLIConfiguration.

 [Y] Yes
 [N] No
 [S] Suspend
 [?] Help (default is "Y"): Y

 Name
 Port
 User

 --- --- ---

 10.105.231.40
 443
 administrator

vSphere PowerCLI> Add-EsxSoftwareDepot 'C:\Documents and Settings\Administrator\Desktop\upgrade\229\VEM550-201612340113-BG-release.zip'

Depot Url

zip:C:\Documents and Settings\Administrator\Desktop\upgrade\229\VMware-ESXi-...

vSphere PowerCLI> Get-EsxImageProfile

Name	Vendor		Last Modified	Acceptance Level
ESXi-5.1.0-20121201001s-no	VMware, 1	Inc.	02/02/2016 7:	. PartnerSupported
CN1-CY	CISCO		4/22/2015 11	PartnerSupported
ESXi-5.1.0-20121204001-stan	VMware, 1	Inc.	12/7/2015 7:	PartnerSupported
ESXi-5.1.0-20121201001s-sta	VMware, 1	Inc.	12/7/2015 7:	PartnerSupported
ESXi-5.1.0-799733-no-tools	VMware, 1	Inc.	8/2/2015 3:0	PartnerSupported
ESXi-5.1.0-20121204001-no-t	VMware, 1	Inc.	12/7/2015 7:	PartnerSupported
ESXi-5.1.0-799733-standard	VMware, 1	Inc.	8/2/2015 3:0	PartnerSupported

vSphere PowerCLI> New-EsxImageProfile -CloneProfile VEM550-201612340113-BG-release.zip ESXi-5.1.0-799733-standard -Name ESXi-N1Kv-bundle

cmdlet New-EsxImageProfile at command pipeline position 1
Supply values for the following parameters:
(Type !? for Help.)
Vendor: CISCO

Name	Vendor	Last Modified	Acceptance Level
ESXi-N1Kv-bundle	CISCO	09/09/2016 3:0.	PartnerSupported

vSphere PowerCLI> Add-EsxSoftwareDepot 'C:\Documents and Settings\Administrator\Desktop\upgrade\229 \VEM510-201612340107-BG-release.zip

Depot Url

zip:C:\Documents and Settings\Administrator\Desktop\upgrade\229\cisco-vem-v1...

vSphere PowerCLI> Get-EsxSoftwarePackage cisco*

Name	Version	Vendor	Creation Date
		e	
cisco-vem-v320-esx	5.2.1.3.2.5.0-3.2.1	Cisco Partner Supported	2016-09-09

vSphere PowerCLI> Add-EsxSoftwarePackage -SoftwarePackage cisco-vem-v170-esx -ImageProfile ESXi-N1Kv-bundle

Name	Vendor	Last Modified	Acceptance Level
ESXi-N1Kv-bundle	CISCO	09/09/2016 3:	. PartnerSupported

vSphere PowerCLI> **\$img = Get-EsxImageProfile ESXi-N1Kv-bundle**

vSphere PowerCLI> **\$img.vibList**

Name	Version	Vendor	Creation Dat
			е
scsi-bnx2i	1.9.1d.v50.1-5vmw.510.0.0.7	VMware	8/2/2012
sata-sata-promise	2.12-3vmw.510.0.0.799733	VMware	8/2/2012
net-forcedeth	0.61-2vmw.510.0.0.799733	VMware	8/2/2012
esx-xserver	5.1.0-0.0.799733	VMware	8/2/2012
misc-cnic-register	1.1-1vmw.510.0.0.799733	VMware	8/2/2012

1

	0 440) F0 4 4 F40 0 0 F		
net-tg3	3.110h.v50.4-4vmw.510.0.0.7	VMware	8/2/2012
scsi-megaraid-sas	5.34-4vmw.510.0.0.799733	VMware	8/2/2012
scsi-megaraid-mbox	2.20.5.1-6vmw.510.0.0.799733	VMware	8/2/2012
scsi-ips	7.12.05-4vmw.510.0.0.799733	VMware	8/2/2012
net-e1000e	1.1.2-3vmw.510.0.0.799733	VMware	8/2/2012
	3.0-13vmw.510.0.0.799733		
sata-ahci		VMware	8/2/2012
sata-sata-svw	2.3-3vmw.510.0.0.799733	VMware	8/2/2012
net-cnic	1.10.2j.v50.7-3vmw.510.0.0	VMware	8/2/2012
net-e1000	8.0.3.1-2vmw.510.0.0.799733	VMware	8/2/2012
ata-pata-serverworks	0.4.3-3vmw.510.0.0.799733	VMware	8/2/2012
scsi-mptspi	4.23.01.00-6vmw.510.0.0.799733	VMware	8/2/2012
ata-pata-hpt3x2n	0.3.4-3vmw.510.0.0.799733	VMware	8/2/2012
net-s2io	2.1.4.13427-3vmw.510.0.0.79	VMware	8/2/2012
	5.1.0-0.0.799733	VMware	8/2/2012
esx-base			
net-vmxnet3	1.1.3.0-3vmw.510.0.0.799733	VMware	8/2/2012
net-bnx215-esx	5.2.1.3.2.5.0-3.1.2	Cisco	2016-09-09
scsi-megaraid2	2.00.4-9vmw.510.0.0.799733	VMware	8/2/2012
ata-pata-amd	0.3.10-3vmw.510.0.0.799733	VMware	8/2/2012
ipmi-ipmi-si-drv	39.1-4vmw.510.0.0.799733	VMware	8/2/2012
scsi-lpfc820	8.2.3.1-127vmw.510.0.0.799733	VMware	8/2/2012
ata-pata-atiixp	0.4.6-4vmw.510.0.0.799733	VMware	8/2/2012
esx-dvfilter-generic		VMware	8/2/2012
2			
net-sky2	1.20-2vmw.510.0.0.799733	VMware	8/2/2012
scsi-qla2xxx	902.k1.1-9vmw.510.0.0.799733	VMware	8/2/2012
net-r8169	6.011.00-2vmw.510.0.0.799733	VMware	8/2/2012
sata-sata-sil	2.3-4vmw.510.0.0.799733	VMware	8/2/2012
scsi-mpt2sas	10.00.00.00-5vmw.510.0.0.79	VMware	8/2/2012
sata-ata-piix	2.12-6vmw.510.0.0.799733	VMware	8/2/2012
scsi-hpsa	5.0.0-21vmw.510.0.0.799733	VMware	8/2/2012
ata-pata-via	0.3.3-2vmw.510.0.0.799733	VMware	8/2/2012
scsi-aacraid	1.1.5.1-9vmw.510.0.0.799733	VMware	8/2/2012
scsi-rste	2.0.2.0088-1vmw.510.0.0.799733		8/2/2012
ata-pata-cmd64x	0.2.5-3vmw.510.0.0.799733	VMware	8/2/2012
-	2.01.31-1vmw.510.0.0.799733		8/2/2012
ima-qla4xxx		VMware	
net-igb	2.1.11.1-3vmw.510.0.0.799733	VMware	8/2/2012
scsi-qla4xxx	5.01.03.2-4vmw.510.0.0.799733	VMware	8/2/2012
block-cciss	3.6.14-10vmw.510.0.0.799733	VMware	8/2/2012
scsi-aic79xx	3.1-5vmw.510.0.0.799733	VMware	8/2/2012
tools-light	5.1.0-0.0.799733	VMware	8/2/2012
uhci-usb-uhci	1.0-3vmw.510.0.0.799733	VMware	8/2/2012
sata-sata-nv	3.5-4vmw.510.0.0.799733	VMware	8/2/2012
sata-sata-sil24	1.1-1vmw.510.0.0.799733	VMware	8/2/2012
net-ixqbe	3.7.13.6iov-10vmw.510.0.0.7	VMware	8/2/2012
ipmi-ipmi-msghandler	39.1-4vmw.510.0.0.799733	VMware	8/2/2012
scsi-adp94xx	1.0.8.12-6vmw.510.0.0.799733	VMware	8/2/2012
scsi-fnic	1.5.0.3-1vmw.510.0.0.799733	VMware	8/2/2012
ata-pata-pdc2027x	1.0-3vmw.510.0.0.799733	VMware	8/2/2012
misc-drivers	5.1.0-0.0.799733	VMware	8/2/2012
net-enic	1.4.2.15a-1vmw.510.0.0.799733	VMware	8/2/2012
net-be2net	4.1.255.11-1vmw.510.0.0.799733	VMware	8/2/2012
net-nx-nic	4.0.558-3vmw.510.0.0.799733	VMware	8/2/2012
esx-xlibs	5.1.0-0.0.799733	VMware	8/2/2012
net-bnx2x	1.61.15.v50.3-1vmw.510.0.0	VMware	8/2/2012
ehci-ehci-hcd	1.0-3vmw.510.0.0.799733	VMware	8/2/2012
ohci-usb-ohci	1.0-3vmw.510.0.0.799733	VMware	8/2/2012
net-r8168	8.013.00-3vmw.510.0.0.799733	VMware	8/2/2012
	5.1.0-0.0.799733		8/2/2012
esx-tboot		VMware	
ata-pata-sil680	0.4.8-3vmw.510.0.0.799733	VMware	8/2/2012
ipmi-ipmi-devintf	39.1-4vmw.510.0.0.799733	VMware	8/2/2012
scsi-mptsas	4.23.01.00-6vmw.510.0.0.799733	vruware	8/2/2012

vSphere PowerCLI> Export-EsxImageProfile -ImageProfile ESXi-N1Kv-bundle -FilePath 'C:\Documents and Settings\Administrator\Desktop\ESXi-N1Kv-bundle.iso' -ExportToIso

Installing VMware Release 5.x and 6.x Patches

Creating the Host Patch Baseline for 5.x or 6.x Patches

Before You Begin

- VMware release 5.x or 6.x must be installed prior to installing a patch.
- Ensure you configure the VMware Update Manager Download settings with proxy enabled and VMware production portal links for VMware ESX/ESXi in connected state and download those images into the VUM patch repository.



Do not install VMware vSphere 5.5 Patch 2702864 with Cisco Nexus 1000V. The VMware vSphere 5.5 Patch 2702864 is not supported on Cisco Nexus 1000V.

Step 1 Under Home > Solutions and Applications > Update Manager, select Baselines and Groups tab.

- **Step 2** Under **Baseline**, click **Create** to create a baseline.
- Step 3 In the Baseline Name and Type window, enter a name for the baseline, select the Host Patch radio button and click Next.
- Step 4 In the Patch Options window, select the Fixed radio button and click Next.
- **Step 5** In the **Patches** window, select the required patch to upgrade to and move the selected patch to **Fixed patches to Add** column and click **Next**.
 - **Note** To find the 6.x or 5.1 update 1 and later patches, refer to http://www.vmware.com/patchmgr/findPatch.portal
 - **Note** In the combined upgrade scenario, add the required Cisco Nexus 1000V VEM patch that corresponds to 6.x and 5.x releases to the **Fixed patches to Add** column along with ESXi 6.x and 5.x patches. You can get the required Cisco Nexus 1000V VEM patches into the VUM patch repository either from www.cisco.com, VMWare production portal links or through the VSM home page.

Upgrading the ESXi Hosts to Release 5.x or 6.x Patches Using VMware Update Manager

Note

Follow the same procedure to upgrade ESXi hosts 5.0 to 5.0 Update 1 and later.

Step 1	In the vSphere Client, choose Home > Hosts and Clusters.
Step 2	From the left navigation pane, select the host or cluster that needs to be upgraded and click Update Manager.
Step 3	Click Attach.
Step 4	In the Individual Baselines by Type area, select your Patch baseline's radio button check box.
Step 5	Click Attach.
Step 6	Click Scan.
Step 7	In the Confirm Scan dialog box, check the Patches and extensions box and click Scan . Verify if all the hosts are non-compliant.
Step 8	Click Stage.
Step 9	In Baseline Selection window, keep the default selected baseline and click Next.
Step 10	In Patch and Extension exclusion window, keep the default selected baseline and click Next.
Step 11	Click Finish.
Step 12	Click Remediate and click Next .
Step 13	In Patch and Extension exclusion window, keep the default selected baseline and click Next.
Step 14	Click Next.
Step 15	In the Host Remediate Options window, under Maintenance Mode Options, select the Disable any removable media devices connected to the virtual machines on the host check box. Note If you have stateless host in your setup, select Enable Patch Remediation on Powered on PXE booted ESXi hosts radio button.
Step 16	Click Next .
Step 17	In the Cluster Remediation Options window, select all the check boxes and click Next.
Step 18	Click Finish to begin the remediation. To check the host versions, on the left-hand pane, click on each host to confirm if version 6.x and 5.x appears in the top-left corner of the right-hand pane and the version information matches the information provided under the <i>Cisco Nexus 1000V and VMware Compatibility Information</i> guide.
	You can also confirm if the upgrade was successful by executing the show module command on the VSM and check if the VEMs are running the correct build.

Upgrading the ESXi Hosts to Release 5.x or 6.x Using the CLI

You can upgrade an ESXi host by installing a VMware patch or update with the compatible Cisco Nexus 1000V VEM software.



Do not install VMware vSphere 5.5 Patch 2702864 with Cisco Nexus 1000V. The VMware vSphere 5.5 Patch 2702864 is not supported on Cisco Nexus 1000V.

Before You Begin

- You have downloaded and installed the VMware vCLI. For information about installing the vCLI, see the VMware vCLI documentation.
- You are logged in to the remote host when the vCLI is installed.



- **Note** The vSphere Command-Line Interface (vSphere CLI) command set allows you to enter common system administration commands against ESXi systems from any machine with network access to those systems. You can also enter most vSphere CLI commands against a vCenter Server system and target any ESXi system that the vCenter Server system manages. vSphere CLI commands are especially useful for ESXi hosts because ESXi does not include a service console.
- If you are using the esxupdate command, you are logged into the ESX host.
- Check the Cisco Nexus 1000V and VMware Compatibility Information for compatible versions.
- You have already copied the ESXi host software and VEM software installation file to the /tmp directory.
- You know the name of the ESXi and VEM software file to be installed.

Step 1 Download the VEM software and copy them to the local host.

Determine the upgrade method that you want to use.

Step 2

If you are using the vCLI, enter the esculi command and install the ESXi and VEM software simultaneously.

esxcli software vib install -v full-path-to-vib

Note When using the esxcli software VIB install command, you must log in to each host and enter the command. ESXi expects the VIB to be in the /var/log/vmware directory if the absolute path is not specified.

```
# esxcli software vib update -d /var/tmp/update-from-esxi5.1-5.1_update01.zip
Installation Result
Message: The update completed successfully, but the system needs to be rebooted for the
changes to be effective.
Reboot Required: true
VIBs Installed: VMware_bootbank_esx-base_5.1.0-0.12.1065491,
VMware_locker_tools-light_5.1.0-0.12.1065491
VIBs Removed: VMware_bootbank_esx-base_5.1.0-0.3.799733,
VMware_locker_tools-light_5.0.0-0.0.799733
VIBs Skipped: VMware_bootbank_ata-pata-amd_0.3.10-3vmw.510.0. 3.799733,
VMware_bootbank_ata-pata-atiixp_0.4.6-3vmw.510.0. 3.799733,
```

```
VMware bootbank_scsi-qla4xxx_5.01.03.2-3vmw.510.0.3.799733.,
VMware bootbank uhci-usb-uhci 1.0-3vmw.510.0.3.799733
```

Upgrading the VMware DVS Version Using the VSM CLI

You can upgrade the VMware DVS version from the current version (4.0 or 5.0) to 5.0 and above using the VSM commands.

Before You Begin

• You have upgraded the VSM to the current Cisco Nexus 1000V release.



The VMware ESXi host should be compatible with the new DVS version. Supported DVS versions are 5.0.0, 5.1.0, 5.5.0 or 6.0.0. If the ESXi host is incompatible with the new DVS version, the upgrade process fails.

```
Step 1 Log in to sys-connection command mode in the VSM.
```

Step 2 Configure the DVS version using vmware dvs-version version_no command. vsm(config-svs-conn) # vsm(config-svs-conn) # vmware dvs-version 5.1.0

```
Step 3 Verify the DVS version upgrade using show svs connections command.
```

vsm(config-svs-conn) # show svs connections

```
connection n1k-vc:
   hostname: -
   ip address: 103.3.176.26
   ipv6 address: -
   remote port: 80
   transport type: ipv4
   protocol: vmware-vim https
   certificate: default
   datacenter name: dc-tb22
   admin:
   max-ports: 12000
   DVS uuid: a4 a7 Of 50 c8 79 ba a2-85 86 75 fd 53 7f d9 25
   dvs version: 5.1.0
   config status: Enabled
   operational status: Connected
   sync status: Complete
   version: VMware vCenter Server 6.0.0 build-2559268
   vc-uuid: 4fd42386-8cba-4055-8872-6340e2f61d86
   ssl-cert: self-signed or not authenticated
```

Verifying the Build Number and Upgrade

Note

I

The examples in the procedure may contain Cisco Nexus 1000V versions and filenames that are not relevant to your release. Refer to the *Cisco Nexus 1000V and VMware Compatibility Information* for your specific versions and filenames.

Before You Begin

• You have upgraded the VSMs and VEMs to the current Cisco Nexus 1000V release.



The VSM upgrade will not proceed if ESX/ESXi 4.0 or 4.1 is part of the DVS. You must either remove ESX 4.0 or 4.1 from the DVS and proceed with VSM upgrade or upgrade ESX 4.0 or 4.1 to 5.0 or later releases and proceed with the VSM upgrade.

- You have upgraded the vCenter Server.
- You have upgraded the VMware Update Manager.
- · You have upgraded your ESX/ESXi hosts.

Step 1	Verify the build n ~ # vmware -v VMware ESXi 5. VMware ESXi 5. ~ #	-1 5.0 build-206					
Step 2	Verify the VIB in ~ # esxcli sof cisco-vem-v340 2016-09-12 ~ #	tware vib lis		2 .8.0-3.2.1		Cisco PartnerSupported	
Step 3	Verify VEM status. ~ # vem status -v Package vssnet-esxesx2013-release Version 5.2.1.3.2.8.0-3.2.1 Build 1 Date Wed Sep 16:27:37 PST 2016 VEM modules are loaded						
	Switch Name vSwitch0 DVS Name BL VEM Agent (vem	1024	106 Used Ports 22	Configured Ports 128 Configured Ports 1024	1500	Uplinks vmnic0 Uplinks vmnic5,vmnic4,vmnic7	
	~ #		5				
Step 4	Verify VEM vers ~ # vemcmd sho VEM Version: 5 VSM Version: 5	w version .2.1.3.2.8.0- .2(1)SV3(2.8)		sebuild-2068190			

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ESX Version Update Level: 0 \sim #

Step 5 Verify the upgrade on the Cisco Nexus 1000V VSM.

switch# show module

Mod	Ports	Module-Ty	pe	Model		Status		
1 2 3 4 5 6 7	1022 1022 1022 1022	Virtual S Virtual E Virtual E Virtual E Virtual E	Supervisor Module Supervisor Module Sthernet Module Sthernet Module Sthernet Module Sthernet Module Sthernet Module	Nexus1000V NA NA NA NA				
Mod	Sw		Hw					
3 4 5	5.2(1) 5.2(1) 5.2(1) 5.2(1) 5.2(1) 5.2(1)	SV3(2.8) SV3(2.8)	0.0	0 Releasebuild-232 0 Releasebuild-362 0 Releasebuild-232 0 Releasebuild-362	23236 20759 23236 20759	(3.1) (6.0) (3.1) (6.0)		
Mod	Server	-IP	Server-UUID		Serv	ver-Name		
1 2 3 4 5	10.197 10.197 10.197 10.197 10.197	7.132.44 7.132.45	NA	bd1d-30e4dbc2baba bd1d-30e4dbc2c3ae bd1d-30e4dbc297da	NA NA NA			
* th	* this terminal session							