

# **V** Commands

This chapter describes the Cisco Nexus 1000V commands that begin with V.

#### vem

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To configure a Virtual Ethernet Module (VEM), use the **vem** command. To remove a VEM configuration, use the **no** form of this command.

**vem** *module-number* [- *module-number*]

**no vem** module-number [- module-number]

Syntax Description	<i>module-number</i> Specifies a module number. The range of valid values is 3 to 66.			
Defaults	None			
Command Modes	Global configuration (	config)		
SupportedUserRoles	network-admin			
Command History	<b>Release</b> 4.0(4)SV1(1)	Modification This command was introduced.		
Usage Guidelines		Ms by using a dash. For example, 3-9 or 20-30.		
Examples	This example shows how to create a VEM and enter the VEM slot configuration mode: n1000v# configure terminal n1000v(config)# vem 10			

n1000v(config-vem-slot)#

This example shows how to remove a VEM:

n1000v# configure terminal n1000v(config)# no vem 10 n1000v(config)#

<b>Related Commands</b>	Command	Description
show module vem		Displays information about the VEM module.

#### version 9

To designate NetFlow export version 9 in the NetFlow exporter, use the **version 9** command. To remove version 9, use the **no** form of this command.

version 9

no version 9

Syntax Description	This command has no arguments or keywords.
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Defaults

- **Command Modes** NetFlow flow exporter configuration (config-flow-exporter)
- SupportedUserRoles network-admin

None

Command History	Release	Modification
4.0(4)SV1(1)		This command was introduced.

**Examples** 

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This example shows how to configure version 9 for a Netflow flow exporter:

```
n1000v# config t
n1000v(config)# flow exporter ExportTest
n1000v(config-flow-exporter)# version 9
n1000v(config-flow-exporter-version-9)#
```

This example shows how to remove version 9 from the Netflow flow exporter:

```
n1000v# config t
n1000v(config)# flow exporter ExportTest
n1000v(config-flow-exporter)# version 9
n1000v(config-flow-exporter-version-9)# no version 9
n1000v(config-flow-exporter)#
```

Related Commands	Command	Description	
	option exporter-stats timeout	Specifies a timeout period for resending NetFlow flow exporter data.	
	option interface-table timeout	Specifies a timeout period for resending the NetFlow flow exporter interface table.	
	template data timeout	Specifies a timeout period for resending NetFlow flow exporter template data.	

Command	Description
flow exporter	Creates a Flexible NetFlow flow exporter.
flow record	Creates a Flexible NetFlow flow record.
flow monitor	Creates a Flexible NetFlow flow monitor.
show flow exporter	Displays information about the NetFlow flow exporter.
show flow record	Displays information about NetFlow flow records.
show flow monitor	Displays information about the NetFlow flow monitor.

# virtual-service-domain

To classify and separate traffic for network services, use the **virtual-service-domain** command. To remove a virtual service domain, use the **no** form of this command.

virtual-service-domain vsd-name

no virtual-service-domain

Syntax Description	vsd-name	Creates and nan	nes a virtual service domain.		
Defaults	None				
Command Modes	Port profile con	figuration (config-	port-prof)		
SupportedUserRoles	network-admin				
Command History	Release	Modific	ation		
ooniniana mistory	4.0(4)SV1(2)		mmand was introduced.		
Examples	This example shows how to configure a port profile for a VSD: <pre>n1000v# config t n1000v(config)# port-profile vsd1_member n1000v(config-port-prof)# vmware port-group n1000v(config-port-prof)# switchport access vlan 315 n1000v(config-port-prof)# virtual-service-domain vsd1 n1000v(config-port-prof)# no shutdown n1000v(config-port-prof)# state enabled</pre>				
	This example shows how to remove the virtual service domain configuration:				
	n1000v# config t n1000v(config)# port-profile vsd1_member n1000v(config-port-prof)# no virtual-service-domain vsd1				
Related Commands	Command		Description		
	show virtual-s	ervice-domain	Displays a list of the VSDs currently configured in the VSM, including VSD names and port profiles.		

# vlan

To create a VLAN and enter the VLAN configuration mode, use the **vlan** command. To remove a VLAN, use the **no** form of this command.

vlan {id | dot1Q tag native}

**no vlan** {*id* | **dot1Q tag native**}

Syntax Description	id	VLAN identification number. The range of valid values is 1 to 4094.	
	dot1Q tag native	Specifies an IEEE 802.1Q virtual LAN.	
Defaults	The default VLAN is	VLAN 1.	
Command Modes	Global configuration	(config)	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
	4.0(4)SV1(1)	This command was introduced.	
Usage Guidelines	Specify a VLAN rang	ge by using a dash. For example, 1-9 or 20-30.	
Examples	This example shows	how to create a VLAN and enter the VLAN configuration mode:	
	n1000v# configure t n1000v(config)# vla n1000v(config-vlan)	an 10	
	This example shows how to remove a VLAN:		
	n1000v# configure terminal n1000v(config)# no vlan 10 n1000v(config)#		
Related Commands	Command	Description	
	show vlan	Displays VTP VLAN status.	

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#### vlan policy deny

To enter the VLAN configuration mode and deny all VLAN access for the role, use the vlan policy deny command. To remove the policy restrictions, use the **no** form of this command. vlan policy deny no vlan policy deny **Syntax Description** This command has no arguments or keywords. Defaults None **Command Modes** Role configuration (config-role) **SupportedUserRoles** network-admin **Command History** Release Modification 4.0(4)SV1(1) This command was introduced. **Usage Guidelines** After executing this command, access to any VLAN must be explicitly defined for this role by using the permit vlan command. Examples This example shows how to enter the VLAN configuration mode and deny all VLAN access for the role: n1000v# config t n1000v(config)# role name network-observer n1000v(config-role)# vlan policy deny n1000v(config-role-vlan)# This example shows how to remove policy restrictions: n1000v# config t n1000v(config)# role name network-observer n1000v(config-role)# no vlan policy deny n1000v(config-role-vlan)#

Related Commands	Command	Description	
role name		Specifies a user role and enters role configuration mode.	

Command	Description
permit vlan	Specifies the VLAN that users assigned to this role can access.
show role	Displays the role configuration.

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### vmware dvs datacenter-name

To create a VMware virtual switch, use the **vmware dvs datacenter-name** command. To remove the virtual switch, use the **no** form of this command.

vmware dvs datacenter-name [folder/] name

no vmware dvs

Syntax Description	folder	(Optional) Name of the folder.	
	name	Switch name.	
Defaults	None		
Command Modes	SVS connection c	configuration (config-svs-conn)	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
	4.0(4)SV1(1)	This command was introduced.	
Usage Guidelines	To create a virtual switch, you must be in the SVS connection configuration mode. Use the <b>svs connection</b> command to create a connection and enter that mode. The number of SVS connections that can be created is limited to one.		
After the VSM creates a DVS in the vCenter, if the ESX administrator changes the DVS for the vCenter, the VSM administrator must manually update the DVS name in the VSM too <b>vmware dvs datacenter-name</b> command. This action is required because the DVS name automatically updated in the VSM, and if the names do not match, the connection between to DVS is broken.			
Examples	This example sho	ws how to create a VMware virtual switch:	
	n1000v# <b>configure terminal</b> n1000v(config)# <b>svs connect s1</b> n1000v(config-svs-conn)# <b>vmware dvs datacenter-name dc1</b> n1000v(config-svs-conn)#		
	This example sho	ws how to remove a VMware virtual switch:	
	n1000v# <b>configure terminal</b> n1000v(config)# <b>svs connect s1v</b> n1000v(config-svs-conn)# <b>no vmware dvs datacenter-name dc1</b> n1000v(config-svs-conn)#		

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<b>Related Commands</b>	Command	Description
	show svs	Displays SVS information.
	show vmware	Displays VMware information.

#### vmware port-group

To create a VMware port group, use the **vmware port-group** command. To remove the VMware port group, use the **no** form of this command.

vmware port-group name

no vmware port-group name

Syntax Description	name Spe	ecifies the name of the VMware port group.	
Defaults	None		
Command Modes	Port profile configurat	ion (config-port-prof)	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
	4.0(4)SV1(1)	This command was introduced.	
Examples	This example shows how to create a VMware port group:		
Evamplaa	This around shows h	ou to anote a VM-use port anoun	
	n1000v# configure terminal		
	n1000v(config)# <b>port-profile testprofile</b> n1000v(config-port-prof)# <b>vmware port-group testgroup</b>		
	n1000v(config-port-prof)#		
	This example shows how to remove the VMware port group:		
	<pre>n1000v# configure terminal n1000v(config)# port-profile testprofile n1000v(config-port-prof)# no vmware port-group testgoup n1000v(config-port-prof)#</pre>		
Related Commands	Command	Description	
	show port-profile name	Displays configuration information about a particular port-profile.	

# vmware vc extension-key

To create an extension key, use the **vmware vc extension-key** command.

vmware vc extension-key key

Syntax Description	key Exte	ension key number. The range of valid values is 1 to 80.
Defaults	The key does not exist	t.
Command Modes	Global configuration (	(config)
SupportedUserRoles	network-admin	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Usage Guidelines	An extension key is us	sed to connect to an instance of Virtual Center.
Examples	This example shows h	ow to create an extension key:
	n1000v# configure terminal n1000v(config)# vmware vc extension-key 10 n1000v(config)#	
Related Commands	Command	Description
	show vmware vc extension-key	Displays extension key information.

# vmware vem upgrade complete

To clear the upgrade status, use the vmware vem upgrade complete command.

#### vmware vem upgrade complete

Syntax Description	This command has no ar	guments or keywords.
Defaults	None	
Command Modes	Any	
SupportedUserRoles	network-admin network-operator	
Command History	Release	Modification
-	4.0(4)SV1(1)	This command was introduced.
Usage Guidelines	Once you have cleared th	ne upgrade status, you cannot repeat this procedure.
Examples	This example shows how to clear the upgrade status:	
	n1000v# <b>vmware vem upgrade complete</b> n1000v#	
Related Commands	Command	Description
	show vmware vem upgrade status	Monitors the upgrade of the Virtual Ethernet Module (VEM) to a new software version.
	vmware vem upgrade notify	Notifies the vCenter Server that the software on the Virtual Supervisor Module (VSM) has been upgraded.
	vmware vem upgrade proceed	Begins the upgrade of the virtual machine (VM).

## vmware vem upgrade notify

To notify the vCenter Server that the software on the Virtual Supervisor Module (VSM) has been upgraded, and that a Virtual Ethernet Module (VEM) upgrade is available, use the **vmware vem upgrade notify** command.

#### vmware vem upgrade notify

Syntax Description	This command has no ar	guments or keywords.
Defaults	None	
Command Modes	Any	
SupportedUserRoles	network-admin network-operator	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Examples	This example shows how to notify the vCenter Server that the software on the Virtual Supervisor Module (VSM) has been upgraded, and that a VEM upgrade is available: n1000v# vmware vem upgrade notify n1000v#	
Related Commands	Command	Description
	show vmware vem upgrade status	Monitors the upgrade of the VEMs to a new software version.
	vmware vem upgrade proceed	Begins the upgrade of the virtual machine (VM).
	vmware vem upgrade complete	Clears the upgrade status.

### vmware vem upgrade proceed

To begin the upgrade of the virtual machine (VM), use the vmware vem upgrade proceed command.

vmware vem upgrade proceed

Syntax Description	This command has no ar	guments or keywords.
Defaults	None	
Command Modes	Any	
SupportedUserRoles	network-admin network-operator	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Examples	This example shows how	to begin the upgrade of the VM:
	n1000v# <b>vmware vem upgrade proceed</b> n1000v#	
Related Commands	Command	Description
	show vmware vem upgrade status	Monitors the upgrade of the Virtual Ethernet Module (VEM) to a new software version.
	vmware vem upgrade notify	Notifies the vCenter Server that the software on the Virtual Supervisor Module (VSM) has been upgraded.
	vmware vem upgrade complete	Clears the upgrade status.
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## vxlan udp port

To configure a VXLAN user datagram protocol (UDP) port for VXLAN encapsulation, use the **vxlan udp port** command. To remove a VXLAN UDP port, use the **no** form of this command.

vxlan udp port [port\_number]

no vlan udp port [port\_number]

Syntax Description	port_number	VXLAN UDP destination port number. The range is from 1024 to 65535. The number that you specify for this command must be a port number that is used by VXLAN encapsulation. Port 4789 is used by the Internet Assigned Numbers Authority (IANA).	
Defaults	The default port num for this command.	aber is either 4789 or 8472, depending on the installation. See the Usage Guidelines	
Command Modes	Global configuration	n (config)	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
·····,	5.2(3)SV3(1.1)	This command was introduced.	
Usage Guidelines	You must permit this	s port through any intermediate firewall.	
	In Cisco Nexus 1000V for VMware Release 4.2(1)SV2(2.1) and earlier, the default UDP port number was 8472. Beginning with Release 5.2(1)SV3(1.1), the default UDP port number has changed to the IANA-approved UDP port number 4789. This change affects the Cisco Nexus 1000V for VMware software installation, upgrade, and VXLAN configuration in the following ways:		
	• When you upgrade to Release 5.2(1)SV3(1.1) from an earlier release that has VXLAN configured, the switch retains the UDP port number of 8472. You are not required to change the UDP number to 4789; however if you decide to change it, make sure that the VEMs are upgraded to Release 5.2(1)SV3(1.1) as well. Otherwise the <b>vxlan udp port</b> command is not available and you cannot change the UDP number.		
	• When you upgrade to Release 5.2(1)SV3(1.1) from an earlier release that does not have VXLAN configured, and then you configure VXLAN, the switch is configured with the default UDP port number 4789.		
	• •	rm a fresh Cisco Nexus 1000V for VMware installation of Release 5.2(1)SV3(1.1) re VXLAN, the switch is configured with the default UDP port number 4789.	

• You can change the UDP port number at any time using the vxlan udp port command. However, when upgrading to Release 5.2(1)SV3(1.1) from an earlier release, ensure that the VSM and VEMs are at the same release before using the vxlan udp port command. Otherwise the vxlan udp port command is not available and you cannot change the UDP port number.

Examples	This example shows how to configure a VXLAN UDP destination port:		
	n1000v# configure terminal Enter configuration commands, one per line. End with CNTL/Z. n1000v(config)# vxlan udp port 4789 n1000v(config)# This example shows how to remove a VXLAN UDP destination port:		
	<pre>n1000v# configure terminal Enter configuration commands, one per line. End with CNTL/Z. n1000v(config)# no vxlan udp port 8472 n1000v(config)#</pre>		

**Related Commands** This command has no related commands.