



V Commands

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

vem

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)				
Supported User Roles	network-admin				
Command History	<table><thead><tr><th>Release</th><th>Modification</th></tr></thead><tbody><tr><td>4.0(4)SV1(1)</td><td>This command was introduced.</td></tr></tbody></table>	Release	Modification	4.0(4)SV1(1)	This command was introduced.
Release	Modification				
4.0(4)SV1(1)	This command was introduced.				
Usage Guidelines	Specify a range of VEMs 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: <pre>n1000v# configure terminal n1000v(config)# vem 10</pre>				

```
n1000v(config-vem-slot)#
```

This example shows how to remove a VEM:

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

Related Commands

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 version 9** form of this command.

version 9

no version 9

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes NetFlow flow exporter configuration (config-flow-exporter)

SupportedUserRoles network-admin

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

Examples 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	<i>vsd-name</i> Creates and names a virtual service domain.
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Defaults	None
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Command Modes	Port profile configuration (config-port-prof)
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SupportedUserRoles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(2)	This command was introduced.

Examples This example shows how to configure a port profile for a VSD:

```
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
```

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-service-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	
<i>id</i>	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)

Supported User Roles	
	network-admin

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

Usage Guidelines	
	Specify a VLAN range 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 terminal
n1000v(config)# vlan 10
n1000v(config-vlan)#
```

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.

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.

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	<i>folder</i>	(Optional) Name of the folder.
	<i>name</i>	Switch name.

Defaults	None
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Command Modes	SVS connection configuration (config-svs-conn)
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SupportedUserRoles	network-admin
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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 **svs connection** 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 folder name in the vCenter, the VSM administrator must manually update the DVS name in the VSM too using the **vmware dvs datacenter-name** command. This action is required because the DVS name is not automatically updated in the VSM, and if the names do not match, the connection between the VSM and DVS is broken.

Examples This example shows how to create a VMware virtual switch:

```
n1000v# configure terminal
n1000v(config)# svs connect s1
n1000v(config-svs-conn)# vmware dvs datacenter-name dc1
n1000v(config-svs-conn)#
```

This example shows how to remove a VMware virtual switch:

```
n1000v# configure terminal
n1000v(config)# svs connect s1v
n1000v(config-svs-conn)# no vmware dvs datacenter-name dc1
n1000v(config-svs-conn)#
```

Related Commands	Command	Description
	show svcs	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	<i>name</i> Specifies the name of the VMware port group.				
Defaults	None				
Command Modes	Port profile configuration (config-port-prof)				
SupportedUserRoles	network-admin				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(4)SV1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(4)SV1(1)	This command was introduced.
Release	Modification				
4.0(4)SV1(1)	This command was introduced.				
Usage Guidelines	To create the VMware port group, you must be in port profile configuration mode.				
Examples	<p>This example shows how to create a VMware port group:</p> <pre>n1000v# configure terminal n1000v(config)# port-profile testprofile n1000v(config-port-prof)# vmware port-group testgroup n1000v(config-port-prof)#</pre> <p>This example shows how to remove the VMware port group:</p> <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	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show port-profile <i>name</i></td> <td>Displays configuration information about a particular port-profile.</td> </tr> </tbody> </table>	Command	Description	show port-profile <i>name</i>	Displays configuration information about a particular port-profile.
Command	Description				
show port-profile <i>name</i>	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	<i>key</i> Extension key number. The range of valid values is 1 to 80.				
Defaults	The key does not exist.				
Command Modes	Global configuration (config)				
SupportedUserRoles	network-admin				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(4)SV1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(4)SV1(1)	This command was introduced.
Release	Modification				
4.0(4)SV1(1)	This command was introduced.				
Usage Guidelines	An extension key is used to connect to an instance of Virtual Center.				
Examples	<p>This example shows how to create an extension key:</p> <pre>n1000v# configure terminal n1000v(config)# vmware vc extension-key 10 n1000v(config)#</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show vmware vc extension-key</td> <td>Displays extension key information.</td> </tr> </tbody> </table>	Command	Description	show vmware vc extension-key	Displays extension key information.
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 arguments 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 the upgrade status, you cannot repeat this procedure.

Examples This example shows how to clear the upgrade status:

```
n1000v# vmware vem upgrade complete
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 arguments 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 arguments 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# vmware vem upgrade proceed
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.

■ vmware vem upgrade proceed