



CHAPTER

19

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 is from 3 to 66.				
Defaults	None				
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>5.2(1)SK1(1.1)</td><td>This command was introduced.</td></tr> </tbody> </table>	Release	Modification	5.2(1)SK1(1.1)	This command was introduced.
Release	Modification				
5.2(1)SK1(1.1)	This command was introduced.				
Usage Guidelines	Specify a range of VEMs by using a dash. For example, 3-9 or 20-30.				
Examples	<p>This example shows how to create a VEM and enter the VEM slot configuration mode:</p> <pre>n1000v# configure terminal Enter configuration commands, one per line. End with CNTL/Z. n1000v(config)# vem 10 n1000v(config-vem-slot)# </pre> <p>This example shows how to remove a VEM:</p> <pre>n1000v# configure terminal Enter configuration commands, one per line. End with CNTL/Z. n1000v(config)# no vem 10 n1000v(config)# </pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show module vem</td><td>Displays information about the VEM module.</td></tr> </tbody> </table>	Command	Description	show module vem	Displays information about the VEM module.
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vemporlog

To show portlog information, use the following command:

vemporlog show info

To show all entries in the specified portlog, use the following command:

vemporlog show all cookie portlog_number

To show the last *number_of_entries* entries in the specified portlog, use the following command:

vemporlog show last number_of_entries cookie portlog_number

To show a continuous tail, similar to the **tail -f** command in UNIX, use the following command:

vemporlog show tail

To show the port bring up events and logs for the specified LTL number, use the following command:

vemporlog show ltl ltl_number

Syntax Description	<p><i>ltl_number</i> Specifies an LTL number.</p> <p><i>number_of_entries</i> Specifies the number of entries to show, starting from the last entry.</p> <p><i>portlog_number</i> Specifies a portlog number.</p>
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Defaults	The vemporlog is on by default.
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Command Modes	None
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SupportedUserRoles	Any
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Command History	Release	Modification
	5.2(1)SK1(2.1)	This command was introduced.

Examples	This example shows the output of the vemporlog show info command:
	<pre>n1000v# vemporlog show info Enabled: No Total Entries: 1062 Wrapped Entries: 0 Lost Entries: 0 Skipped Entries: 830 Available Entries: 27594 Stop After Entry: Not Specified</pre>

vimportlog

This example shows the port bringup logs for LTL number 49:

```
n1000v# vimportlog show ltl 49
Timestamp          Entry   CPU    Mod    Lv  Message
Oct  8 08:30:38.455555      12     2      1      8  Info [ltl:49]sf_create_port: Creating
                                                Physical / Virtual Port ltl (49)
Oct  8 08:30:38.460913      13     2      1      8  Info [ltl:49]sf_create_port: Success
```

Related Commands

Command	Description
vemcmd show port	Displays the LTL number of an interface.
vemlog	Displays all of the VEM logs, including port bring up events.

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	None
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Command Modes	NetFlow flow exporter configuration (config-flow-exporter).
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SupportedUserRoles	network-admin
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Command History	Release	Modification
	5.2(1)SK1(1.1)	This command was introduced.

Examples	This example shows how to configure version 9 for a Netflow flow exporter:
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```
n1000v# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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
	flow exporter	Creates a Flexible NetFlow flow exporter.
	flow monitor	Creates a Flexible NetFlow flow monitor.
	flow record	Creates a Flexible NetFlow flow record.
	option exporter-stats timeout	Specifies a timeout period for resending NetFlow flow exporter data.

Command	Description
option interface-table timeout	Specifies a timeout period for resending the NetFlow flow exporter interface table.
show flow exporter	Displays information about the NetFlow flow exporter.
show flow monitor	Displays information about the NetFlow flow monitor.
show flow record	Displays information about NetFlow flow records.
template data timeout	Specifies a timeout period for resending NetFlow flow exporter template data.

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 | configuration id | dot1Q tag native | filter access_map vlan-list id}

no vlan {id | configuration id | dot1Q tag native | filter access_map vlan-list id }
```

Syntax Description	id	VLAN identification number. The range is from 1-4094 or range(s): 1-5, 10 or 2-5,7-19.
	configuration	Specifies the VLAN configuration mode.
	dot1Q tag native	Specifies an IEEE 802.1Q virtual LAN.
	filter	Specifies access control for packets.
	<i>access_map</i>	Access map name. The maximum size is 64 alphanumeric, case-sensitive characters.
	vlan-list	Specifies list of VLANs to apply access control.

Defaults The default VLAN is VLAN 1.

Command Modes Global configuration (config)

SupportedUserRoles network-admin

Command History	Release	Modification
	5.2(1)SK1(1.1)	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
Enter configuration commands, one per line. End with CNTL/Z.
n1000v(config)# vlan 10
n1000v(config-vlan)#

```

This example shows how to remove a VLAN:

```
n1000v# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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.
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Defaults	None
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Command Modes	Role configuration (config-role)
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SupportedUserRoles	network-admin
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Command History	Release	Modification
	5.2(1)SK1(1.1)	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.
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Examples	This example shows how to enter the VLAN configuration mode and deny all VLAN access for the role:
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```
n1000v# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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.

vlan policy deny

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

vxlan udp port

To configure a VXLAN UDP destination port, use the **vxlan udp port** command. To remove a VXLAN UDP destination port, use the **no** form of this command.

vxlan udp port [port_number]

no vxlan udp port [port_number]

Syntax Description	<i>port_number</i>	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).
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Defaults The default port number is 8472.

Command Modes Global configuration (config)

SupportedUserRoles network-admin

Command History	Release	Modification
	5.2(1)SK1(2.1)	This command was introduced.

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 2934
n1000v(config)#
```

This example shows how to remove a VXLAN UDP destination port:

```
n1000v# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
n1000v(config)# no vxlan udp port 2934
n1000v(config)#
```

Related Commands This command has no related commands.

■ vxlan udp port