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CHAPTER **1**

Cisco Nexus 1000V Series Switch Commands

This chapter provides information about the Cisco Virtual Security Gateway (VSG) related commands on the Cisco Nexus 1000V Series switch and the Cisco Nexus 1010 networking appliance.

■ clear vsn connection

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clear vsn connection

To clear Cisco VSG connections, use the **clear vsn connection** command.

clear vsn connection [module *module-number*]

Syntax Description	module (Optional) Clears a specific module. <i>module-number</i> Module number. The range is from 3 to 66.
---------------------------	--

Defaults	None
-----------------	------

Command Modes	EXEC Global configuration (config)
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SupportedUserRoles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to clear Cisco VSG connections:
	vsm# clear vsn connection

Related Commands	Command	Description
	show vsn	Displays Cisco VSG information.

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clear vsn statistics

To clear Cisco VSG statistics, use the **clear vsn statistics** command.

```
clear vsn statistics [module module-number | vlan vlan-number ip ip-address [module module-number]]
```

Syntax Description	module (Optional) Clears a module. module-number Module number. The range of values is from 3 to 66. vlan (Optional) Clears a VLAN. vlan-number VLAN number. ip (Optional) Clears a device at a specific IP address. ip-address IP address. The format is A.B.C.D.
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Defaults	None
-----------------	------

Command Modes	EXEC Global configuration (config)
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SupportedUserRoles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to clear Cisco VSG statistics: vsm# clear vsn statistics
-----------------	---

Related Commands	Command	Description
	show vsn	Displays Cisco VSG information.

switchport mode

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switchport mode

To set the port mode of an interface, use the **switchport mode** command. To remove the port mode configuration, use the **no** form of this command.

switchport mode {access | private-vlan {host | promiscuous} | trunk}

no switchport mode {access | private-vlan {host | promiscuous} | trunk}

Syntax Description	
access	Sets the port mode access.
private-vlan	Sets the port mode to private VLAN.
host	Sets the port mode private VLAN to host.
promiscuous	Sets the port mode private VLAN to promiscuous.
trunk	Sets the port mode to trunk.

Defaults	Switchport mode is not set.
-----------------	-----------------------------

Command Modes	Interface configuration (config-if) Port profile configuration (config-port-prof)
----------------------	--

SupportedUserRoles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to set the port mode of an interface:
	<pre>vsm# configure vsm(config)# interface vethernet 1 vsm(config-if)# switchport mode private-vlan host vsm(config-if)#</pre>

This example shows how to remove the mode configuration:

```
vsm# configure
vsm(config)# interface vethernet 1
vsm(config-if)# no switchport mode private-vlan host
vsm(config-if)#
```

Related Commands	Command	Description
	show interface	Displays interface information.

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switchport access vlan

To set the access mode of an interface, use the **switchport access vlan** command. To remove the access mode configuration, use the **no** form of this command.

switchport access vlan *vlan-id*

no switchport access vlan *vlan-id*

Syntax Description	<i>vlan-id</i> VLAN identification number. The range of values is from 1 to 3967.
---------------------------	---

Defaults	Access mode is not set.
-----------------	-------------------------

Command Modes	Interface configuration (config-if) Port profile configuration (config-port-prof)
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SupportedUserRoles	network-admin
---------------------------	---------------

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

Examples	This example shows how to set the access mode of an interface:
-----------------	--

```
vsm# configure
vsm(config)# interface vethernet 1
vsm(config-if)# switchport access vlan 100
vsm(config-if)#

```

This example shows how to remove the access mode configuration:

```
vsm# configure
vsm(config)# interface vethernet 1
vsm(config-if)# no switchport access vlan
vsm(config-if)#

```

Related Commands	Command	Description
	show interface	Displays interface information.

state (port profile)

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state (port profile)

To enable the operational state of a port profile, use the **state** command. To disable the operational state of a port profile, use the **no** form of the command.

state enabled

no state enabled

Syntax Description	enabled	Enables or disables the port profile.
Defaults	Disabled	
Command Modes	Port profile configuration (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 enable the operational state of a port profile:	
	<pre>vsm# configure vsm(config)# port-profile testprofile vsm(config-port-prof)# state enabled vsm(config-port-prof)# </pre>	
Related Commands	Command	Description
	show port-profile	Displays port profile information.

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copy running-config startup-config

To copy the running configuration to the startup configuration, use the **copy running-config startup-config** command.

copy running-config startup-config

Syntax Description This command has no arguments or keywords.

Defaults None

Command Modes Any command mode

SupportedUserRoles network-admin
network-operator

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

Usage Guidelines Use this command to save configuration changes in the running configuration to the startup configuration in persistent memory. When a device reload or switchover occurs, the saved configuration is applied.

Examples This example shows how to save the running configuration to the startup configuration:

```
vsm# copy running-config startup-config
[#####] 100%
```

Related Commands	Command	Description
	show running-config	Displays the running configuration.
	show running-config diff	Displays the differences between the running configuration and the startup configuration.
	show startup-config	Displays the startup configuration.
	write erase	Erases the startup configuration in the persistent memory.

vnm-policy-agent

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vnm-policy-agent

To enter Cisco Virtual Network Management Center (VNMC) policy agent mode, use the **vnm-policy-agent** command.

vnm-policy-agent

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Global configuration (config)

SupportedUserRoles network-admin

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

Usage Guidelines Use the Cisco VNMC policy agent configuration mode to configure policy agents.

Examples This example shows how enter policy agent mode:

```
vsm# configure
vsm(config)# vnm-policy-agent
vsm(config-vnm-policy-agent)#
```

Related Commands	Command	Description
	configure	Enters global configuration mode.

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log-level

To set logging severity levels for the Cisco Virtual Network Management Center (VNMC) policy agent, use the **log-level** command. To reset logging levels, use the **no** form of this command.

```
log-level {critical | debug0 | debug1 | debug2 | debug3 | debug4 | info | major | minor | warn}

no {critical | debug0 | debug1 | debug2 | debug3 | debug4 | info | major | minor | warn}
```

Syntax Description	critical Sets the logging level to critical. debug0 Sets the logging level to debug 0. debug1 Sets the logging level to debug 1. debug2 Sets the logging level to debug 2. debug3 Sets the logging level to debug 3. debug4 Sets the logging level to debug 4. info Sets the logging level to information. major Sets the logging level to major. minor Sets the logging level to minor. warn Sets the logging level to warning.
---------------------------	---

Command Default	None
------------------------	------

Command Modes	Cisco VNMC policy agent configuration (config-vnm-policy-agent)
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SupportedUserRoles	network-admin
---------------------------	---------------

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

Examples	This example shows how to set the logging level to critical:
	<pre>vsm# configure vsm(config)# vnm-policy-agent vsm(config-vnm-policy-agent)# log-level critical</pre>

Related Commands	Command	Description
	vnm-policy-agent	Enables the Cisco VNMC policy agent configuration mode.

ping vsn

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ping vsn

To ping the virtual service nodes (VSN) (including the Cisco VSG) from the vPath, use the **ping vsn** command. There is no **no** form of this command.

```
ping vsn {ip vsn-ip-addr [vlan vsn-vlan-num] | all} {src-module {module-num | all | vpath-all} [timeout secs] [count count]}
```

Syntax Description	ip	Designates that a specific IP address is to be pinged.
	<i>vsn-ip-addr</i>	IP address of the specific VSN.
	vlan	(Optional) Designates a specific VLAN is to be pinged.
	<i>vsn-vlan-num</i>	Specific VLAN number.
	all	Indicates that all VSNs must be pinged.
	src-module	Designates the source module for the ping.
	<i>module-num</i>	Module number for the source path.
	vpath all	Designates that all source vPaths will be used.
	timeout	(Optional) Designates a timeout.
	<i>secs</i>	Duration of the pinging operation in seconds.
	count	(Optional) Designates a count of pings.
	<i>count</i>	Number of pings to be counted.

Command Default None

Command Modes EXEC

SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)VSG1(2)	This command was introduced.

Usage Guidelines There is no **no** form of this command.

Examples This example show how to ping a Cisco VSG.

```
vsm# ping ?
<CR>
A.B.C.D or Hostname  IP address of remote system
WORD                Enter Hostname
mpls                Ping an MPLS network
multicast           Multicast ping
vsn                VSNs to be pinged
```

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```
vsm# ping vsn
```

Input parameters:

- vsn : VSNs to be pinged.
- all : All VSNs that are currently associated to at least one VM. In other words, all VSNs specified in port-profiles that are bound to at least one VM.
- ip-addr <ip-addr> : All VSNs configured with this IP address.
- vlan <vlan-num> : All VSNs configured on this VLAN.
- src-module : Source modules to originate ping request from.
- all : All online modules.
- vpath-all : All modules having VMs associated to port-profiles that has vn-service defined.
- <module-num> : A online module number.
- timeout <secs> : Time to wait for response from VSNs, in seconds. Default is 1 sec.
- count : Number of ping packets to be sent.
- <count> : Specifies number of ping packets to be sent. Default is 5. Min 1, Max 2147483647.
- unlimited : Send ping packets until command is stopped.

Specify both ip-addr and vlan if the VSN to be ping is not associated to any VMs yet.

In the output, status of ping request for each VSN for each module is shown. On success, round-trip-time of ping request/response for a VSN, is shown in micro-seconds next to module number. On failure, failure message is shown next to module number.

Various forms:

ping vsn all src-module all	(Ping all VSNs from all modules)
ping vsn all src-module vpath-all	(Ping all VSNs from all modules having VMs associated to VSNs)
ping vsn all src-module 3	(Ping all VSNs from the specified module)
ping vsn ip 106.1.1.1 src-module all	(Ping specified VSN from all modules)
ping vsn ip 106.1.1.1 vlan 54 src-module all	(Ping specified VSN from all modules having VMs associated to VSNs)
ping vsn ip 106.1.1.1 src-module vpath-all	(Ping specified VSN from all modules having VMs associated to VSNs)
ping vsn ip 106.1.1.1 vlan 54 src-module 3	(Ping specified VSN from specified module)

Options timeout & count are applicable to all of the above commands:

```
ping vsn all src-vpath all timeout 2 count 10
ping vsn all ip 106.1.1.1 count unlimited
ping vsn ip 106.1.1.1 vlan 54 src-vpath 3 count 10
```

Errors:

VSN response timeout - VSN is down, not reachable or not responding.
 VSN ARP not resolved - VEM couldn't resolve MAC address of VSN.
 no response from VEM - VEM is not sending ping response to VSM. Can happen when VEM is down and VSM not detected it yet.

The following example shows the **ping vsn** command being used to display all of the source module traffic.

```
vsm# ping vsn all src-module all
ping vsn 106.1.1.1 vlan 54 from module 3 5, seq=0 timeout=1-sec
  module(usec) : 3(156) 5(160)
ping vsn 110.1.1.1 vlan 54 from module 3 5, seq=0 timeout=1-sec
  module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 54 from module 3 5, seq=1 timeout=1-sec
  module(usec) : 3(230) 5(151)
ping vsn 110.1.1.1 vlan 54 from module 3 5, seq=1 timeout=1-sec
```

ping vsn

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```
module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 54 from module 3 5, seq=2 timeout=1-sec
    module(usec) : 3(239) 5(131)
ping vsn 110.1.1.1 vlan 54 from module 3 5, seq=2 timeout=1-sec
    module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 54 from module 3 5, seq=3 timeout=1-sec
    module(usec) : 3(248) 5(153)
ping vsn 110.1.1.1 vlan 54 from module 3 5, seq=3 timeout=1-sec
    module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)

ping vsn 106.1.1.1 vlan 54 from module 3 5, seq=4 timeout=1-sec
    module(usec) : 3(259) 5(126)
ping vsn 110.1.1.1 vlan 54 from module 3 5, seq=4 timeout=1-sec
    module(failed) : 3(VSN ARP not resolved) 5(VSN ARP not resolved)
```

Related Commands	Command	Description
	ping	Activates a signal to verify connections with other devices on a path.

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policy-agent-image

To designate the policy agent image local URL as bootflash, use the **policy-agent-image** command. To remove the designation, use the no form of the command.

policy-agent-image bootflash:

no policy-agent-image bootflash:

Syntax Description	bootflash: Designates the policy agent image local URL as bootflash.				
Command Default	None				
Command Modes	VNMC policy agent configuration (config-vnm-policy-agent)				
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.				
Examples	<p>This example shows how to designate the local URL that contains the policy agent image:</p> <pre>vsm# configure vsm(config)# vnm-policy-agent vsm(config-vnm-policy-agent)# policy-agent-image bootflash:</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>vnm-policy-agent</td> <td>Enables the VNM policy agent configuration mode.</td> </tr> </tbody> </table>	Command	Description	vnm-policy-agent	Enables the VNM policy agent configuration mode.
Command	Description				
vnm-policy-agent	Enables the VNM policy agent configuration mode.				

pop

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pop

To pop a mode off the stack or to restore a mode, use the **pop** command.

pop *file-name*

Syntax Description	<i>file-name</i>	File name.
---------------------------	------------------	------------

Command Default	None
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Command Modes	EXEC
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SupportedUserRoles	network-admin
---------------------------	---------------

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

Examples	This example shows how to restore from a file called file1:
-----------------	---

```
vsm# pop file1
```

Related Commands	Command	Description
	push	Pushes the current mode onto the stack.

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push

To push the current mode onto stack or to save it, use the **push** command.

push *file-name*

Syntax Description	<i>file-name</i>	File name.
Command Default	None	
Command Modes	EXEC	
SupportedUserRoles	network-admin	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Examples	This example shows how to push file1 onto the stack: vsm# push file1	
Related Commands	Command	Description
	pop	Pops the current mode off the stack.

registration-ip

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registration-ip

To set the service registry IP address, use the **registration-ip** command. To discard the service registry IP address, use the **no** form of this command.

registration-ip ip-address

no registration-ip ip-address

Syntax Description	<i>ip-address</i>	Service registry IP address. The format is A.B.C.D.				
Command Default	None					
Command Modes	Cisco VNMC policy agent configuration mode (config-vnm-policy-agent)					
Supported User Roles	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.					
Examples	This example shows how to set the service registry IP address:					
	<pre>vsm# configure vsm(config)# vnm-policy-agent vsm(config-vnm-policy-agent)# registration-ip 209.165.200.233 vsm(config-vnm-policy-agent)# </pre>					
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>vnm-policy-agent</td> <td>Enters the Cisco VNMC policy agent configuration mode.</td> </tr> </tbody> </table>		Command	Description	vnm-policy-agent	Enters the Cisco VNMC policy agent configuration mode.
Command	Description					
vnm-policy-agent	Enters the Cisco VNMC policy agent configuration mode.					

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shared-secret

To set the shared secret password for communication between the Cisco Virtual Security Gateway (VSG), the Virtual Supervisor Module (VSM), and the Cisco Virtual Network Management Center (VNMC), use the **shared-secret** command. To discard the shared secret password, use the **no** form of this command.

shared-secret *shared-secret-password*

no shared-secret *shared-secret-password*

Syntax Description	<i>shared-secret-password</i> Shared secret password. The range of valid values is from 1 to 64. You must use at least one uppercase character.
---------------------------	---

Command Default	None
------------------------	------

Command Modes	Cisco VNMC policy agent configuration mode (config-vnm-policy-agent)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to set the shared secret password:
	<pre>vsm# configure vsm(config)# vnm-policy-agent vsm(config-vnm-policy-agent)# shared-secret Password123 vsm(config-vnm-policy-agent)# </pre>

Related Commands	Command	Description
	vnm-policy-agent	Enters VNM policy agent configuration mode.

show vnm-pa status

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show vnm-pa status

To display the installation status of a policy agent, use the **show vnm-pa status** command.

show vnm-pa status

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes Global configuration (config)

SupportedUserRoles network-admin
network-operator

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

Usage Guidelines You can use the following operators with the **show vnm-pa status** command:

- >—Redirects the output to a file.
- >>—Redirects the output to a file in append mode.
- |—Pipes the command output to a filter.

Examples This example shows how to display the installation status of the policy agent:

```
vsm# configure
vsm(config)# show vnm-pa status
VNM Policy-Agent status is - Installed Successfully. Version 1.0(0.512)-vsm
vsm(config)#
```

Related Commands	Command	Description
	vnm-policy-agent	Enters the Cisco VNMC policy agent configuration mode.

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port-profile

To create a port profile and enter port profile configuration mode, use the **port-profile** command. To remove the port profile configuration, use the **no** form of this command.

port-profile *profile-name*

no port-profile *profile-name*

Syntax Description	<i>profile-name</i>	Port profile name. The range of valid values is from 1 to 80.				
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>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	The port profile name must be unique for each port profile.					
Examples	<p>This example shows how to create a port profile called AccessProf:</p> <pre>vsm# configure vsm(config)# port-profile AccessProf vsm(config-port-prof)# </pre> <p>This example shows how to remove the port profile called AccessProf:</p> <pre>vsm# configure vsm(config)# no port-profile AccessProf vsm(config)# </pre>					
Related Commands	Command	Description				
	show port-profile	Displays information about the port profiles.				

■ show running-config

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show running-config

To display the running configuration, use the **show running-config** command.

```
show running-config [aaa | aclmgr | all | am | arp | cdp | diff | exclude | expand-port-profile |
    icmpv6 | igmp | interface | ip | ipqos | ipv6 | l3vm | license | monitor | ntp | port-profile |
    port-security | radius | rpm | security | snmp | vdc-all | vlan | vshd]
```

Syntax Description	
aaa	(Optional) Displays the Authentication, Authorization and Accounting (AAA) configuration.
aclmgr	(Optional) Displays the running configuration for Access Control List (ACL) manager.
all	(Optional) Displays the current operating configurations.
am	(Optional) Displays Application Management (AM) information.
arp	(Optional) Displays Address Resolution Protocol (ARP) information.
cdp	(Optional) Displays the Cisco Discovery Protocol (CDP) configuration.
diff	(Optional) Displays the difference between the running and startup configurations.
exclude	(Optional) Excludes the running configuration of specified features.
expand-port-profile	(Optional) Displays port profile information.
icmpv6	(Optional) Displays Internet Control Message Protocol (ICMPv6) information.
igmp	(Optional) Displays Internet Group Management Protocol (IGMP) information.
interface	(Optional) Displays interface configurations.
ip	(Optional) Displays Internet Protocol (IP) information.
ipqos	(Optional) Displays the running configuration for the IP Quality of Service (QoS) manager.
ipv6	(Optional) Displays IPv6 information.
l3vm	(Optional) Displays Layer 3 Virtual Machine (L3VM) information.
license	(Optional) Displays the licensing configuration.
monitor	(Optional) Displays Ethernet Switched Port Analyzer (SPAN) session information.
ntp	(Optional) Displays Network Time Protocol (NTP) information.
port-profile	(Optional) Displays port-profile configurations.
port-security	(Optional) Displays port-security configurations.
radius	(Optional) Displays the Remote Authentication Dial In User Service (RADIUS) configuration.
rpm	(Optional) Displays RPM information.
security	(Optional) Displays the security configurations.
snmp	(Optional) Displays the Simple Network Management Protocol (SNMP) configuration.
vdc-all	(Optional) Displays all Virtual Device Context (VDC) configurations.

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vlan	(Optional) Displays virtual large area network (VLAN) information.
vshd	(Optional) Displays the running configuration for virtual shared hardware device (VSHD).

Command Default	None
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Command Modes	EXEC
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SupportedUserRoles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	You can use the following operators with the show running-config command:
-------------------------	--

- >—Redirects the output to a file.
- >>—Redirects the output to a file in append mode.
- |—Pipes the command output to a filter.

Examples	This example shows how to display the running configuration:
-----------------	--

```
vsm# show running-config

!Command: show running-config
!Time: Tue Jan  4 17:20:05 2011

version 4.2(1)SV1(4)
no feature telnet

username admin password 5 $1$z3M0/3no$j77mpF9f/mqmd7/mEZ6RR1  role network-admin
username adminbackup password 5 $1$Oip/C5Ci$oOdx7oJS1BCFpNRmQK4na.  role network-operator

banner motd #Nexus 1000v Switch#

ip domain-lookup
ip domain-lookup
switchname vsm
vem 3
  host vmware id 765186a7-eb7c-11de-b059-8843e1389748
vem 4
  host vmware id 90a97ac6-31d7-11df-ad65-68efbdf622ca
vem 5
  host vmware id 833fe152-3f8b-11df-bd70-68efbdf64970
snmp-server user admin network-admin auth md5 0x5ed3cfea7c44550ac3d18475f28b118b
  priv 0x5ed3cfea7c44550ac3d18475f28b118b localizedkey
```

■ show running-config

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```
vrf context management
  ip route 0.0.0.0/0 10.193.72.1
  vlan 1,61-65
  port-channel load-balance ethernet source-mac
  port-profile default max-ports 32
  port-profile default port-binding static
  port-profile type vethernet vm-clear
    vmware port-group
    switchport mode access
    switchport access vlan 63
    no shutdown
    state enabled
  port-profile type vethernet vsn-service
    vmware port-group
    switchport mode access
    switchport access vlan 64
    no shutdown
    max-ports 1024
    state enabled
  port-profile type ethernet system-uplink
    vmware port-group
    switchport trunk allowed vlan 61-70
    switchport mode trunk
    no shutdown
    system vlan 61-62
    state enabled
  port-profile type vethernet vsg129-2
    vmware port-group
    switchport mode access
    switchport access vlan 63
    org root/Canon
    vn-service ip-address 10.10.129.2 vlan 64 security-profile sp-vsg2-1
    no shutdown
    state enabled
  port-profile type vethernet vsg134-1
    vmware port-group
    switchport mode access
    switchport access vlan 63
    vn-service ip-address 10.10.134.1 vlan 64 mgmt-ip-address 10.10.73.132 security-profile
    sp1
    no shutdown
    state enabled
  port-profile type vethernet vsg136-1
    vmware port-group
    switchport mode access
    switchport access vlan 63
    vn-service ip-address 10.10.136.1 vlan 64 mgmt-ip-address 10.10.73.137 security-profile
    sp1
    no shutdown
    state enabled
  port-profile type vethernet vsg129_2-svc-vlan65
    vmware port-group
    switchport mode access
    switchport access vlan 65
    vn-service ip-address 10.10.129.2 vlan 64 mgmt-ip-address 10.10.73.131 security-profile
    sp1
    no shutdown
    state enabled
  port-profile type vethernet vm-clear-vlan65
    vmware port-group
    switchport mode access
    switchport access vlan 65
    no shutdown
    state enabled
```

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```

port-profile type ethernet Unused_Or_Quarantine_Uplink
  vmware port-group
  shutdown
  description Port-group created for Nexus1000V internal usage. Do not use.
  state enabled
port-profile type vethernet Unused_Or_Quarantine_Veth
  vmware port-group
  shutdown
  description Port-group created for Nexus1000V internal usage. Do not use.
  state enabled
port-profile type vethernet vm-clear-vlan63
  vmware port-group
  switchport mode access
  switchport access vlan 63
  no shutdown
  state enabled

vdc vsm id 1
  limit-resource vlan minimum 16 maximum 2049
  limit-resource monitor-session minimum 0 maximum 2
  limit-resource vrf minimum 16 maximum 8192
  limit-resource port-channel minimum 0 maximum 768
  limit-resource u4route-mem minimum 32 maximum 32
  limit-resource u6route-mem minimum 16 maximum 16
  limit-resource m4route-mem minimum 58 maximum 58
  limit-resource m6route-mem minimum 8 maximum 8

interface mgmt0
  ip address 10.10.73.130/21

interface Vethernet1
  inherit port-profile vm-clear-vlan63
  description UD134-1,Network Adapter 2
  vmware dvport 7489 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
  vmware vm mac 0050.56BB.0029

interface Vethernet2
  inherit port-profile vsg136-1
  description UD136-1,Network Adapter 2
  vmware dvport 7458 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
  vmware vm mac 0050.56BB.0032

interface Vethernet3
  inherit port-profile vm-clear-vlan63
  description US136-1,Network Adapter 2
  vmware dvport 7492 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
  vmware vm mac 0050.56BB.0030

interface Vethernet4
  inherit port-profile vsg129-2
  description US129-1,Network Adapter 2
  vmware dvport 6563 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
  vmware vm mac 0050.56BB.003E

interface Vethernet5
  inherit port-profile vm-clear-vlan63
  description US129-2,Network Adapter 2
  vmware dvport 7491 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
  vmware vm mac 0050.56BB.0040

interface Vethernet6
  inherit port-profile vsn-service
  description VSG134-1,Network Adapter 1
  vmware dvport 3683 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"

```

show running-config

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```

vmware vm mac 0050.56BB.002C

interface Vethernet7
    inherit port-profile vsn-service
    description VSG129-2,Network Adapter 1
    vmware dvport 3686 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
    vmware vm mac 0050.56BB.0037

interface Vethernet8
    inherit port-profile vsn-service
    description VSG136-1,Network Adapter 1
    vmware dvport 3684 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
    vmware vm mac 0050.56BB.0034

interface Ethernet3/2
    inherit port-profile system-uplink

interface Ethernet4/6
    inherit port-profile system-uplink

interface Ethernet5/6
    inherit port-profile system-uplink

interface control0
line console
boot kickstart bootflash:/ks.bin sup-1
boot system bootflash:/sys.bin sup-1
boot kickstart bootflash:/ks.bin sup-2
boot system bootflash:/sys.bin sup-2
svs-domain
    domain id 61
    control vlan 61
    packet vlan 62
    svs mode L2
svs connection vcenter
    protocol vmware-vim
    remote ip address 10.10.79.32 port 80
    vmware dvs uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c" datacenter-name NAME/S
    connect
vnm-policy-agent
    registration-ip 10.193.73.144
    shared-secret *****
    policy-agent-image bootflash:/vnmc-vsmpa.1.0.0.512.bin
    log-level
vsm#

```

Related Commands

Command	Description
show aaa	Displays AAA information.

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tcp state-checks

To configure the switch to perform TCP state checks, use the **tcp state-checks** command. To disable TCP state checks, use the **no** form of this command.

tcp state-checks

no tcp state-checks

Syntax Description This command has no arguments or keywords.

Defaults TCP state checks are enabled.

Command Modes Global configuration (config)

SupportedUserRoles network-admin
system-admin

Command History	Release	Modification
	4.2(1)VSG1(2)	This command was introduced.

Usage Guidelines' Because TCP state checks in vPath are enabled by default, use the **no** form of the **tcp state-checks** command to disable the state checks.

Examples This example shows how to enter the TCP statechecks submode:

```
vsm# config
vsm(config)# vsn type vsg global
vsm(config-vsn) #
```

Related Commands	Command	Description
	tcp state-checks	Enables tcp state checks in the vPath.

vn-service ip-address

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vn-service ip-address

To assign a data IP address, a VLAN number, and a profile to a Cisco VSG, use the **vn-service ip-address** command. To disable the data IP address, use the **no** form of the command.

vn-service ip-address ip-address vlan vlan-number [fail {close | open} | security-profile profile-name]

no vn-service ip-address ip-address vlan vlan-number [fail {close | open} | security-profile profile-name]

Syntax Description	
ip-address	IP address. The format is A.B.C.D.
vlan vlan-number	Specifies the service VLAN number. The range of values is from 1 to 3967 and 4048 to 4093.
fail	(Optional) Sets states to be in either fail close or fail open.
close	Drops packets if the Cisco VSG is down.
open	Passes packets through if the Cisco VSG is down.
security-profile profile-name	(Optional) Specifies the security profile name.

Command Default	Fail close				
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	<p>Use the vn-service ip-address command to configure the IP address, VLAN, and security profile for the Cisco VSG, and optionally to allow for a fail-safe configuration.</p> <p>The fail mode specifies what the behavior is when the virtual ethernet module (VEM) does not have connectivity to the Cisco VSG. The default fail mode is close, which means that the packets are dropped. The open fail mode means that packets are passed.</p> <p>The security profile name must match one of the security profiles created on the Cisco VSG.</p> <p>The IP address must match the data interface IP address on the Cisco VSG.</p>
-------------------------	---

Examples	This example shows how to assign the IP address and VLAN number and how to specify that packets are to be passed when the Cisco VSG fails:
	<pre>vsm# configure</pre>

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Enter configuration commands, one per line. End with CNTL/Z.

```
vsm(config)# port-profile pP1  
vsm(config-port-prof)# vn-service ip-address 209.165.200.236 vlan 2 fail open  
vsm(config-port-prof)#
```

Related Commands

Command	Description
show virtual-service-domain	Displays virtual service domain information.

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org

To create a Cisco VNMC organization (domain), use the **org** command. To delete a Cisco VNMC organization, use the **no** form of the command.

```
org organization-name
no org [organization-name]
```

Syntax Description	<i>organization-name</i> Organization name. The range of values is from 1 to 251.				
Command Default	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	<p>Cisco VNMC organizations are Cisco VNMC domains.</p> <p>You can hierarchically manage Cisco VNMC organizations. A user that is assigned at a top level organization has automatic access to all organizations under it. For example, an engineering organization can contain a software engineering organization and a hardware engineering organization. A locale containing only the software engineering organization has access to system resources only within that organization. However, a locale that contains the engineering organization has access to the resources for both the software engineering and hardware engineering organizations.</p>				
Examples	<p>This example shows how to create an organization:</p> <pre>vsm# configure Enter configuration commands, one per line. End with CNTL/Z. vsm(config)# port-profile pP1 vsm(config-port-prof)# org orgpP1 vsm(config-port-prof)# vsm#</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>vn-service</td><td>Sets the IP address for a virtual firewall.</td></tr> </tbody> </table>	Command	Description	vn-service	Sets the IP address for a virtual firewall.
Command	Description				
vn-service	Sets the IP address for a virtual firewall.				

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show vsn brief

To display a brief amount of information about the Cisco Virtual Security Gateway (VSG), use the **show vsn brief** command.

show vsn brief

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC

SupportedUserRoles network-admin
network-operator

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

Usage Guidelines You can use the following operators with the **show vsn brief** command:

- >—Redirects the output to a file.
- >>—Redirects the output to a file in append mode.
- |—Pipes the command output to a filter.

Examples This example shows how to display information about Cisco VSGs:

```
vsm# show vsn brief

VLAN          IP-ADDR          MAC-ADDR  FAIL-MODE  STATE  MODULE
  64      192.168.136.1  00:50:56:bb:00:34    Close     Up   5
  64      192.168.129.2  00:50:56:bb:00:37    Close     Up   3
vsm#
```

Related Commands	Command	Description
	show vsn port vethernet	Displays information about the Cisco VSG.

■ show vsn connection

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show vsn connection

To display Cisco VSG connections, use the **show vsn connection** command.

show vsn connection [vlan *vlan-num* | ip *ip-addr* | module *module-num*]

Syntax	Description
vlan	(Optional) Displays connections to a specific VLAN.
<i>vlan-num</i>	Specifies the VLAN number for the connection.
ip	(Optional) Displays connections to a specific IP address.
<i>ip-addr</i>	Specifies the IP address of the connection.
module	(Optional) Displays connections to a specific module.
<i>module-num</i>	Specifies the module number for the connection.

Command Default	None
Command Modes	EXEC
Supported User Roles	network-admin network-operator

Command History	Release	Modification
	4.2(1)VSG1(2)	This command was modified to show more organized and explained output.
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	You can use the following operators with the show vsn connection command:
	<ul style="list-style-type: none"> • >—Redirects the output to a file. • >>—Redirects the output to a file in append mode. • —Pipes the command output to a filter.

Examples	This example shows how to display Cisco VSG connections:
	<pre>vsm# show vsn connection Flags: P - policy at src p - policy at dst O - conn offloaded to vPath at src o - conn offloaded to vPath at dst S - seen syn from src s - seen syn from dst A - seen ack for syn/fin from src a - seen ack for syn/fin from dst F - seen fin from src f - seen fin from dst R - seen rst from src r - seen rst from dst E - tcp conn established (SasA done) T - tcp conn torn down (FafA done)</pre>

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```
VSG IP 106.1.1.1 VLAN 54
#Module 5
Proto SrcIP[:Port]          DstIP[:Port]          VLAN Action Flags    Bytes
  tcp 100.1.1.70:32785      100.1.1.80:80        53 permit PpOoE     452
  udp 100.1.1.70:5636       100.1.1.80:4525      53 permit PpOo      4324
  icmp 100.1.1.70           100.1.1.80          53 permit PpOo      5432
VWAAS IP 110.1.1.1 VLAN 54
#Module 3
Proto SrcIP[:Port]          DstIP[:Port]          VLAN Action Flags    Bytes
  tcp 100.1.1.70:32785      100.1.1.80:80        53 permit PpOoE     543
  udp 100.1.1.70:4785       100.1.1.80:4553      53 permit PpOo      2343
vsm#
```

Related Commands

Command	Description
show vsn port	Displays port information.
vethernet	

■ show vsn detail

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show vsn detail

To display detailed information about the Cisco Virtual Security Gateway (VSG), use the **show vsn detail** command.

show vsn detail

Syntax Description This command has no arguments or keywords.

Command Default None

Command Modes EXEC

SupportedUserRoles network-admin
network-operator

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

Usage Guidelines You can use the following operators with the **show vsn detail** command:

- >—Redirects the output to a file.
- >>—Redirects the output to a file in append mode.
- |—Pipes the command output to a filter.

Examples This example shows how to display detailed information about Cisco VSGs:

```
vsm# show vsn detail
#VSN VLAN: 64, IP-ADDR: 192.168.136.1
  Module: 5
#VSN VLAN: 64, IP-ADDR: 192.168.129.2
  Module: 3
ankaa-vsm-master# show vsn detail
#VSN VLAN: 64, IP-ADDR: 192.168.136.1
  MODULE      VSN-MAC-ADDR  FAIL-MODE   VSN-STATE
    5 00:50:56:bb:00:34    Close  No-License
#VSN VLAN: 64, IP-ADDR: 192.168.129.2
  MODULE      VSN-MAC-ADDR  FAIL-MODE   VSN-STATE
    3 00:50:56:bb:00:37    Close  No-License

#VSN Ports, Port-Profile, Org and Security-Profile Association:
#VSN VLAN: 64, IP-ADDR: 192.168.136.1
  Port-Profile: vsg136-1, Security-Profile: default, Org: Not-Available
    Module  Vethernet
```

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```
      5  2
#VSN  VLAN: 64, IP-ADDR: 192.168.129.2
    Port-Profile: vsg129-2, Security-Profile: default, Org: Not-Available
      Module  Vethernet
            3  10, 4
vsm#
```

Related Commands	Command	Description
	show vsn port vethernet	Displays information about the Cisco VSG.

 show vsn port vethernet

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show vsn port vethernet

To display information about virtual Ethernet (vEth) ports, use the **show vsn port vethernet** command.

show vsn port vethernet *port-number*

Syntax Description	<i>port-number</i>	Port number. The range is from 1 to 1048575.
Command Default	None	
Command Modes	EXEC	
SupportedUserRoles	network-admin network-operator	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Usage Guidelines	You can use the following operators with the show vsn port vethernet command:	
	<ul style="list-style-type: none"> • >—Redirects the output to a file. • >>—Redirects the output to a file in append mode. • —Pipes the command output to a filter. 	
Examples	This example shows how to display information about vEth port 2:	
	<pre>vsm# show vsn port vethernet 2 Veth : Veth2 VM Name : UD136-1 VM uuid : 42 3b e1 60 17 e6 92 c4-3b 47 f4 b7 4c a0 be 1b DV Port : 7458 DVS uuid : 90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c Flags : 0x148 VSN Data IP : 192.168.136.1 Security Profile : spl Org : Not set VNSP id : 1 IP addresses: vsm#</pre>	
Related Commands		

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Command	Description
show vsn statistics	Displays Cisco VSG statistics.

■ show vsn statistics***Send document comments to vsg-docfeedback@cisco.com.***

show vsn statistics

To display Cisco VSG statistics, use the **show vsn statistics** command.

show vsn statistics [ip | module | vlan]

Syntax Description	ip (Optional) Displays IP statistics. mode (Optional) Displays module statistics. vlan (Optional) Displays VLAN statistics.
---------------------------	--

Command Default	None
------------------------	------

Command Modes	EXEC
----------------------	------

SupportedUserRoles	network-admin network-operator
---------------------------	-----------------------------------

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

Usage Guidelines	You can use the following operators with the show vsn statistics command: <ul style="list-style-type: none"> • >—Redirects the output to a file. • >>—Redirects the output to a file in append mode. • —Pipes the command output to a filter.
-------------------------	---

Examples	This example shows how to display statistics for a module:
-----------------	--

```
vsm# show vsn statistics module 3
#VSN VLAN: 64, IP-ADDR: 192.168.129.2
Module: 3
      #VPath Packet Statistics      Ingress      Egress      Total
      Total Seen                      8249       24572      32821
      Policy Redirects                 7796       23260      31056
      No-Policy Passthru                441        1267      1708
      Policy-Permits Rcvd                7796       23260      31056
      Policy-Denies Rcvd                  0           0         0
      Permit Hits                     10          45        55
      Deny   Hits                      0           0         0
      Decapsulated                   7796       23260      31056
      Fail-Open                         0           0         0
      Badport Err                       0           0         0
      VSN Config Err                    0           0         0
      ARP Resolve Err                  2           0         2
```

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```

Encap Err 0 0 0
All-Drops 2 0 2
Total Rcvd From VSN 31056
Non-Cisco Encap Rcvd 0
VNS-Port Drops 0
Policy-Action Err 0
Decap Err 0
L2-Frag Sent 0
L2-Frag Rcvd 0
L2-Frag Coalesced 0

#VPath Flow Statistics
Active Flows 0 Active Connections 0
Forward Flow Create 7799 Forward Flow Destroy 7799
Reverse Flow Create 7799 Reverse Flow Destroy 7799
Flow ID Alloc 15598 Flow ID Free 15598
Connection ID Alloc 7799 Connection ID Free 7799
L2 Flow Create 0 L2 Flow Destroy 0
L3 Flow Create 4 L3 Flow Destroy 4
L4 TCP Flow Create 0 L4 TCP Flow Destroy 0
L4 UDP Flow Create 15594 L4 UDP Flow Destroy 15594
L4 Oth Flow Create 0 L4 Oth Flow Destroy 0
Embryonic Flow Create 0 Embryonic Flow Bloom 0
L2 Flow Timeout 0 L2 Flow Offload 0
L3 Flow Timeout 5 L3 Flow Offload 2
L4 TCP Flow Timeout 0 L4 TCP Flow Offload 0
L4 UDP Flow Timeout 23393 L4 UDP Flow Offload 31054
L4 Oth Flow Timeout 0 L4 Oth Flow Offload 0
Flow Lookup Hit 23314 Flow Lookup Miss 15598
Flow Dual Lookup 38912 L4 TCP Tuple-reuse 0
Flow Classify Err 0 Flow ID Alloc Err 0
Conn ID Alloc Err 0 Hash Alloc Err 0
Flow Exist 0 Flow Entry Exhaust 0
Flow Removal Err 0 Bad Flow ID Receive 0
Flow Entry Miss 0 Flow Full Match Err 0
Bad Action Receive 0 Invalid Flow Pair 0
Invalid Connection 0
Hash Alloc 0 Hash Free 0
InvalFID Lookup 0 InvalFID Lookup Err 0
Deferred Delete 0

vsm#

```

Related Commands

Command	Description
show vsn port vethernet	Displays information about the Cisco VSG.

vlan

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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	<table border="1"> <tr> <td>id</td><td>VLAN identification number. The range is from 1 to 4094.</td></tr> <tr> <td>dot1Q tag native</td><td>Specifies an IEEE 802.1Q virtual LAN.</td></tr> </table>	id	VLAN identification number. The range is from 1 to 4094.	dot1Q tag native	Specifies an IEEE 802.1Q virtual LAN.
id	VLAN identification number. The range is from 1 to 4094.				
dot1Q tag native	Specifies an IEEE 802.1Q virtual LAN.				
Defaults	VLAN 1				
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	Specify a VLAN range by using a dash. For example, 1-9 or 20-30.				
Examples	<p>This example shows how to create a VLAN and enter the VLAN configuration mode:</p> <pre>vsm# configure vsm (config)# vlan 100 vsm (config-vlan)# </pre> <p>This example shows how to remove a VLAN:</p> <pre>switch# configure switch(config)# no vlan 100 switch(config)# </pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show vlan</td><td>Displays the VTP VLAN status.</td></tr> </tbody> </table>	Command	Description	show vlan	Displays the VTP VLAN status.
Command	Description				
show vlan	Displays the VTP VLAN status.				

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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> Name of the VMware port group.	
Defaults	None	
Command Modes	Port profile configuration (config-port-prof)	
SupportedUserRoles	network-admin	
Command History	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	This example shows how to create a VMware port group: vsm# configure vsm(config)# port-profile testprofile vsm(config-port-prof)# vmware port-group testgroup vsm(config-port-prof)#	
	The following example shows how to remove the VMware port group: vsm# configure vsm(config)# port-profile testprofile vsm(config-port-prof)# no vmware port-group testgroup vsm(config-port-prof)#	
Related Commands	Command	Description
	show port-profile <i>name</i>	Displays configuration information about a particular port profile.

vsn type vsg global

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vsn type vsg global

To enter the tcp state-checks configuration submode, use the **vsn type vsg global** command.

vsn type vsg global

Syntax Description This command has no arguments or keywords.

Defaults TCP state checks are enabled.

Command Modes Global configuration (config)

SupportedUserRoles network-admin
system-admin

Command History	Release	Modification
	4.2(1)VSG1(2)	This command was introduced.

Usage Guidelines Because TCP state checks in vPath are enabled by default, use the **no** form of the **tcp state-checks** command to disable the state checks.

Examples This example shows how to enter the VSN configuration submode:

```
vsm# config
vsm(config)# vsn type vsg global
vsm(config-vsn)#

```

Related Commands	Command	Description
	tcp state-checks	Enables TCP state checks in the vPath.