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## **Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2(1)VSG1(1)**

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### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883

Text Part Number: OL-23953-02

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## Preface

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The *Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2(1)VSG1(1)* provides a reference for VSGs (Virtual Security Gateway) CLI commands.

This chapter includes the following sections:

- [Audience, page xi](#)
- [Organization, page xi](#)
- [Document Conventions, page xii](#)
- [Related Documentation, page xiii](#)
- [Obtaining Documentation and Submitting a Service Request, page xiv](#)

## Audience

This reference is for network administrators with the following experience and knowledge:

- VMware vCenter
- VMware vSphere
- VMware ESX and ESXi
- An understanding of virtualization
- Virtual machines

## Organization

This document is organized into the following chapters:

Chapter and Title	Description
<a href="#">Chapter 1, “Cisco Nexus 1000V Series Switch Commands”</a>	Provides information about the Cisco VSG commands found on the Cisco Nexus 1000V switch.
<a href="#">Chapter 2, “Cisco Virtual Security Gateway Commands”</a>	Provides information about Cisco VSG commands.

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## Document Conventions

Command descriptions use these conventions:

Convention	Description
<b>boldface font</b>	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
[ ]	Elements in square brackets are optional.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Screen examples use these conventions:

Convention	Description
screen font	Terminal sessions and information that the switch displays are in screen font.
<b>boldface screen font</b>	Information you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



### Note

Means reader *take note*. Notes contain helpful suggestions or references to material not covered in the manual.



### Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



### Tip

Means the following information will help you solve a problem.

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## Related Documentation

This section contains information about the documentation available for Cisco Virtual Security Gateway and related products.

### Cisco Virtual Security Gateway Documentation

*The following Cisco Virtual Security Gateway for the Nexus 1000V Series Switch documents are available on Cisco.com at the following url:*

[http://www.cisco.com/en/US/products/ps13095/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps13095/tsd_products_support_series_home.html)

- *Cisco Virtual Security Gateway for Nexus 1000V Series Switch Release Notes, Release 4.2(1)VSG1(1)*
- *Cisco Virtual Security Gateway, Release 4.2(1)VSG1(1) and Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide*
- *Cisco Virtual Security Gateway for Nexus 1000V Series Switch License Configuration Guide, Release 4.2(1)VSG1(1)*
- *Cisco Virtual Security Gateway for Nexus 1000V Series Switch Configuration Guide, Release 4.2(1)VSG1(1)*
- *Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2(1)VSG1(1)*
- *Cisco Virtual Security Gateway for Nexus 1000V Series Switch Troubleshooting Guide, Release 4.2(1)VSG1(1)*

### Cisco Virtual Network Management Center Documentation

*The following Cisco Virtual Network Management Center documents are available on Cisco.com at the following url:*

[http://www.cisco.com/en/US/products/ps11213/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps11213/tsd_products_support_series_home.html)

- *Release Notes for Cisco Virtual Network Management Center, Release 1.0.1*
- *Cisco Virtual Security Gateway, Release 4.2(1)VSG1(1) and Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide*
- *Cisco Virtual Network Management Center CLI Configuration Guide, Release 1.0.1*
- *Cisco Virtual Network Management Center GUI Configuration Guide, Release 1.0.1*
- *Cisco Virtual Network Management Center XML API Reference Guide, Release 1.0.1*

### Cisco Nexus 1000V Series Switch Documentation

*The Cisco Nexus 1000V Series Switch documents are available on Cisco.com at the following url:*  
[http://www.cisco.com/en/US/products/ps9902/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9902/tsd_products_support_series_home.html)

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## CHAPTER **1**

# Cisco Nexus 1000V Series Switch Commands

---

This chapter provides information about the VSG-related commands on the Nexus 1000V Switch.

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## clear vsn connection

To clear 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>	(Optional) Module number. The range of values is from 3 to 66.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Examples	This example shows how to clear VSG connections: <pre>vsm# clear vsn connection</pre>
----------	--

Related Commands	Command	Description
	<b>show vsn</b>	Displays VSG information.



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## clear vsn statistics

To clear 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	Parameter	Description
	<b>module</b>	(Optional) Clears a module.
	<i>module-number</i>	(Optional) Module number. The range of values is from 3 to 66.
	<b>vlan</b>	(Optional) Clears a VLAN.
	<i>vlan-number</i>	(Optional) VLAN number.
	<b>ip</b>	(Optional) Clears a device at a specific IP address.
	<i>ip-address</i>	(Optional) IP address. The format is A.B.C.D.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

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

Related Commands	Command	Description
	<b>show vsn</b>	Displays VSG information.

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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

<b>access</b>	Sets the port mode access.
<b>private-vlan</b>	Sets the port mode to private VLAN.
<b>host</b>	Sets the port mode private VLAN to host.
<b>promiscuous</b>	Sets the port mode private VLAN to promiscuous.
<b>trunk</b>	Sets the port mode to trunk.

### Defaults

Switchport mode is not set.

### Command Modes

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

### Supported User Roles

network-admin

### 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:

```
vsm# configure
vsm(config)# interface vethernet 1
vsm(config-if)# switchport mode private-vlan host
vsm(config-if)#
```

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
<b>show interface</b>	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
```

<b>Syntax Description</b>	<i>vlan-id</i>	VLAN identification number. The range of values is from 1 to 3967.
<b>Defaults</b>	Access mode is not set.	
<b>Command Modes</b>	Interface configuration (config-if) Port profile configuration (config-port-prof)	
<b>Supported User Roles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SV1(1)	This command was introduced.
<b>Examples</b>	<p>This example shows how to set the access mode of an interface:</p> <pre>vsm# configure vsm(config)# interface vethernet 1 vsm(config-if)# switchport access vlan 100 vsm(config-if)#</pre> <p>This example shows how to remove the access mode configuration:</p> <pre>vsm# configure vsm(config)# interface vethernet 1 vsm(config-if)# no switchport access vlan vsm(config-if)#</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	show interface	Displays interface information.

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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# <b>configure</b> vsm(config)# <b>port-profile testprofile</b> vsm(config-port-prof)# <b>state enabled</b> vsm(config-port-prof)#</pre>

Related Commands	Command	Description
	<b>show port-profile</b>	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
	<b>show running-config</b>	Displays the running configuration.
	<b>show running-config diff</b>	Displays the differences between the running configuration and the startup configuration.
	<b>show startup-config</b>	Displays the startup configuration.
	<b>write erase</b>	Erases the startup configuration in the persistent memory.

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## vnm-policy-agent

To enter 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 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
	<b>configure</b>	Enters global configuration mode.

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## log-level

To set logging severity levels for the Virtual Network Management Center (VNMC) policy agent, use the **log-level** command. To reset logging levels, use the **no** form of the 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		
	<b>critical</b>	Sets the logging level to critical.
	<b>debug0</b>	Sets the logging level to debug 0.
	<b>debug1</b>	Sets the logging level to debug 1.
	<b>debug2</b>	Sets the logging level to debug 2.
	<b>debug3</b>	Sets the logging level to debug 3.
	<b>debug4</b>	Sets the logging level to debug 4.
	<b>info</b>	Sets the logging level to information.
	<b>major</b>	Sets the logging level to major.
	<b>minor</b>	Sets the logging level to minor.
	<b>warn</b>	Sets the logging level to warning.

**Command Default** None

**Command Modes** VNMC policy agent configuration (config-vnm-policy-agent)

**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:

```
vsm# configure
vsm(config)# vnm-policy-agent
vsm(config-vnm-policy-agent)# log-level critical
```

■ log-level

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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>vnm-policy-agent</b>	Enables the VNM policy agent configuration mode.

---



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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:**

<b>Syntax Description</b>	<b>bootflash:</b>	Designates the policy agent image local URL as bootflash.
<b>Command Default</b>	None	
<b>Command Modes</b>	VNMC policy agent configuration (config-vnm-policy-agent)	
<b>SupportedUserRoles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SV1(1)	This command was introduced.
<b>Examples</b>	This example shows how to designate the local URL that contains the policy agent image: <pre>vsm# <b>configure</b> vsm(config)# <b>vnm-policy-agent</b> vsm(config-vnm-policy-agent)# <b>policy-agent-image bootflash:</b></pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>vnm-policy-agent</b>	Enables the VNM policy agent configuration mode.

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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
-----------------	------

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 restore from a file called file1: vsm# <b>pop file1</b>
----------	--

Related Commands	Command	Description
	<b>push</b>	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*

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

<b>Command Default</b>	None
------------------------	------

<b>Command Modes</b>	EXEC
----------------------	------

<b>SupportedUserRoles</b>	network-admin
---------------------------	---------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SV1(1)	This command was introduced.

<b>Examples</b>	The following example shows how to push file1 onto the stack: vsm# <b>push file1</b>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>pop</b>	Pops the current mode off the stack.

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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 the command.

**registration-ip** *ip-address*

**no registration-ip** *ip-address*

<b>Syntax Description</b>	<i>ip-address</i>	Service registry IP address. The format is A.B.C.D.
---------------------------	-------------------	---

<b>Command Default</b>	None
------------------------	------

<b>Command Modes</b>	VNMC policy agent configuration mode (config-vnm-policy-agent)
----------------------	--

<b>SupportedUserRoles</b>	network-admin
---------------------------	---------------

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

**Examples** This example shows how to set the service registry IP address:

```
vsm# configure
vsm(config)# vnm-policy-agent
vsm(config-vnm-policy-agent)# registration-ip 209.165.200.233
vsm(config-vnm-policy-agent)#
```

Related Commands	Command	Description
	<b>vnm-policy-agent</b>	Enters the VNM policy agent configuration mode.

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## shared-secret

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

**shared-secret** *shared-secret-password*

**no shared-secret** *shared-secret-password*

<b>Syntax Description</b>	<i>shared-secret-password</i> Shared secret password. The range of valid values is from 1 to 64. You must use at least one upper case character.				
<b>Command Default</b>	None				
<b>Command Modes</b>	VNM policy agent configuration mode (config-vnm-policy-agent)				
<b>SupportedUserRoles</b>	network-admin				
<b>Command History</b>	<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.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>The following example shows how to set the shared secret password:</p> <pre>vsm# <b>configure</b> vsm(config)# <b>vnm-policy-agent</b> vsm(config-vnm-policy-agent)# <b>shared-secret password123</b> vsm(config-vnm-policy-agent)#</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>vnm-policy-agent</b></td> <td>Enters VNM policy agent configuration mode.</td> </tr> </tbody> </table>	Command	Description	<b>vnm-policy-agent</b>	Enters VNM policy agent configuration mode.
Command	Description				
<b>vnm-policy-agent</b>	Enters VNM policy agent configuration mode.				

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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
	<b>vnm-policy-agent</b>	Enters 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 the command.

**port-profile** *profile-name*

**no port-profile** *profile-name*

<b>Syntax Description</b>	<i>profile-name</i>	Port profile name. The range of valid values is from 1 to 80.
<b>Defaults</b>	None	
<b>Command Modes</b>	Global configuration (config)	
<b>SupportedUserRoles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SV1(1)	This command was introduced.
<b>Usage Guidelines</b>	The port profile name must be unique for each port profile.	
<b>Examples</b>	<p>This example shows how to create a port profile called AccessProf:</p> <pre>vsm# <b>configure</b> vsm(config)# <b>port-profile AccessProf</b> vsm(config-port-prof)#</pre> <p>This example shows how to remove the port profile called AccessProf:</p> <pre>vsm# <b>configure</b> vsm(config)# <b>no port-profile AccessProf</b> vsm(config)#</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show port-profile</b>	Displays information about the port profiles.

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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

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



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<b>vlan</b>	(Optional) Displays Virtual Large Area Network (VLAN) information.
<b>vshd</b>	(Optional) Displays the running configuration for VSHD.

**Command Default** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network-operator

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	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

vrf context management
```

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```

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
port-profile type ethernet Unused_Or_Quarantine_Uplink

```

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```
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 VSGL34-1,Network Adapter 1
vmware dvport 3683 dvswitch uuid "90 33 3b 50 c2 11 2a 50-ae c5 0f 07 b2 b3 23 2c"
vmware vm mac 0050.56BB.002C
```

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```

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
  svcs-domain
    domain id 61
    control vlan 61
    packet vlan 62
    svcs mode L2
  svcs 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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## vn-service ip-address

To assign a data IP address, a VLAN number, and a profile to a 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		
<i>ip-address</i>		IP address. The format is A.B.C.D.
<b>vlan</b> <i>vlan-number</i>		Service VLAN number. The range of values is from 1 to 3967 and 4048 to 4093.
<b>fail</b>		States are either fail close or fail open.
<b>close</b>		Drops packets if the VSG is down.
<b>open</b>		Passes packets through if the VSG is down.
<b>security-profile</b> <i>profile-name</i>		Security profile name.

**Command Default** Fail close.

**Command Modes** Port profile configuration (config-port-prof)

**Supported User Roles** network-admin

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

**Usage Guidelines** This command configures the IP, VLAN, and security-profile for the VSG, and optionally allows for a fail safe configuration.

Fail mode specifies what the behavior is when the VEM does not have connectivity to the VSG. The default fail mode is **close**, which means that the packets will be forwarded. **open** fail mode means that packets will be dropped.

The security profile name must match one of the security profiles created on the VSG.

The IP address must match the data interface IP address on the VSG.

**Examples** This example shows how to assign the IP address and VLAN number, and how to specify that packets are to be dropped:

```
vsm# configure
```

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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
<b>show virtual-service-domain</b>	Displays virtual service domain information.

---

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## org

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

**org** *organization-name*

**no org** [*organization-name*]

Syntax Description	<i>organization-name</i>	The 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	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	<p>VNMC organizations are VNMC domains.</p> <p>You can hierarchically manage 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# <b>configure</b> Enter configuration commands, one per line. End with CNTL/Z. vsm(config)# <b>port-profile pP1</b> vsm(config-port-prof)# <b>org orgpP1</b> vsm(config-port-prof)#</pre>
----------	---

Related Commands	Command	Description
	<b>vn-service</b>	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 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
	<b>show vsn port vethernet</b>	Displays information about the Cisco VSG.



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## show vsn connection

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

```
show vsn connection [ip | module | vlan]
```

Syntax Description	ip	(Optional) Displays connections to a specific IP address.
	<b>mode</b>	(Optional) Displays connections to a specific module.
	<b>vlan</b>	(Optional) Displays connections to a specific VLAN.

**Command Default** None

**Command Modes** EXEC

**Supported User Roles** 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 connection** 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 VSG connections:

```
vsm# show vsn connection
#VSN VLAN: 64, IP-ADDR: 192.168.136.1
  Module: 5
#VSN VLAN: 64, IP-ADDR: 192.168.129.2
  Module: 3
vsm#
```

Related Commands	Command	Description
	<b>show vsn port</b>	Displays port information.
	<b>vethernet</b>	

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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 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**

<b>Command</b>	<b>Description</b>
<b>show vsn port vethernet</b>	Displays information about the Cisco VSG.

---

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## show vsn port vethernet

To display information about vethernet ports, use the **show vsn port vethernet** command.

**show vsn port vethernet** *port-number*

<b>Syntax Description</b>	<i>port-number</i>	Port number. The range of valid values is from 1 to 1048575.
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SV1(1)	This command was introduced.

### Usage Guidelines

You can use the following operators with the **show vsn port vethernet** 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 vethernet port 2:

```
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 : sp1
Org            : Not set
VNSP id        : 1
IP addresses:
vsm#
```

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Related Commands	Command	Description
	show vsn statistics	Displays VSG statistics.

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## show vsn statistics

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

```
show vsn statistics [ip | module | vlan]
```

Syntax Description	
<b>ip</b>	(Optional) Displays IP statistics.
<b>module</b>	(Optional) Displays module statistics.
<b>vlan</b>	(Optional) Displays VLAN statistics.

**Command Default** None

**Command Modes** EXEC

**Supported User Roles** 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:

- >—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
<b>show vsn port vethernet</b>	Displays information about the Cisco VSG.

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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	
<i>id</i>	VLAN identification number. The range of valid values is from 1 to 4094.
<b>dot1Q tag native</b>	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:

```
vsm# configure
vsm (config)# vlan 100
vsm (config-vlan)#
```

This example shows how to remove a VLAN:

```
switch# configure
switch(config)# no vlan 100
switch(config)#
```

Related Commands	Command	Description
	<b>show vlan</b>	Displays 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 the 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** The following 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
	<b>show port-profile name</b>	Displays configuration information about a particular port profile.

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## CHAPTER **2**

# Cisco Virtual Security Gateway Commands

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This chapter provides information about Virtual Security Gateway commands.

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## attach

To access a module or the console of a module, use the **attach** command.

```
attach { console module module-number | module module-number }
```

Syntax Description		
<b>console module</b>	Specifies the console.	
<i>module-number</i>	Module number. The range of valid values is from 1 to 66.	
<b>module</b>	Specifies a module.	

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	This example shows how to attach to a module:
-----------------	---

```
VSG# attach module 1
Attaching to module 1 ...
To exit type 'exit', to abort type '$.'
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
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http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vsg#
```

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Related Commands	Command	Description
	show terminal	Displays information about the terminal.

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## banner motd

To configure a message of the day (MOTD) banner, use the **banner motd** command.

**banner motd** [*delimiting-character message delimiting-character*]

**no banner motd** [*delimiting-character message delimiting-character*]

### Syntax Description

<i>delimiting-character</i>	(Optional) Character used to signal the beginning and end of the message text. For example, in the following message, the delimiting character is #:  #Testing the MOTD#
<i>message</i>	(Optional) Banner message. Up to 40 lines with a maximum of 80 characters in each line.

### Defaults

“User Access Verification” is the default message of the day.

### Command Modes

Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

The MOTD banner is displayed on the terminal before the login prompt whenever you log in.

The message is restricted to 40 lines and 80 characters per line.

To create a multiple-line MOTD banner, press Enter before typing the delimiting character to start a new line. You can enter up to 40 lines of text.

Follow these guidelines when choosing your delimiting character:

- Do not use the *delimiting-character* in the *message* string.
- Do not use " and % as delimiters.

### Examples

This example shows how to configure and then display a banner message with the text, “Testing the MOTD:”

```
vsg# configure
vsg(config)# banner motd #Testing the MOTD#
vsg(config)# show banner motd
Testing the MOTD
```

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This example shows how to configure and then display a multiple-line MOTD banner:

```
vsg(config)# banner motd #Welcome to authorized users.  
> Unauthorized access prohibited.#  
vsg(config)# show banner motd  
Welcome to authorized users.  
Unauthorized access prohibited.
```

This example shows how to revert to the default MOTD banner:

```
vsg# configure  
vsg(config)# no banner motd  
vsg(config)# show banner motd  
User Access Verification
```

**Related Commands**

Command	Description
<b>show banner motd</b>	Displays the MOTD banner.

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## boot

To configure boot images, use the **boot** command. To revert to default settings, use the **no** form of the command.

**boot** { **asm-sfn** | **auto-copy** | **kickstart bootflash** | **ssi** | **system bootflash** }

**no boot** { **asm-sfn** | **auto-copy** | **kickstart bootflash** | **ssi** | **system bootflash** }

### Syntax Description

<b>asm-sfn</b>	Specifies a boot variable.
<b>auto-copy</b>	Enables or disables automatic copying of boot images to the standby VSG.
<b>kickstart bootflash</b>	Specifies the boot variable URI for the kickstart image.
<b>ssi</b>	Specifies a boot variable.
<b>system bootflash</b>	Specifies the boot variable URI for the system image.

### Defaults

None

### Command Modes

Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to configure a boot variable:

```
vsg# configure
vsg(config)# boot asm-sfn bootflash module 6
```

### Related Commands

Command	Description
<b>show boot</b>	Displays the current boot variables.



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## cd

To change to a different directory, use the **cd** command.

```
cd {bootflash: | volatile:}
```

<b>Syntax Description</b>	<b>bootflash:</b>	Specifies the bootflash directory.
	<b>volatile:</b>	Specifies the volatile directory.
<b>Defaults</b>	bootflash:	
<b>Command Modes</b>	EXEC	
	Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	Use the <b>pwd</b> command to verify the name of the directory you are currently working in.	
<b>Examples</b>	This example shows how to change to the volatile directory:  vsg# <b>cd volatile</b> vsg#	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>pwd</b>	Displays the name of the directory you are currently working in.

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## cdp

To configure Cisco Discovery Protocol (CDP), use the **cdp** command. To remove the CDP configuration, use the **no** form of the command.

**cdp** {**advertise** {**v1** | **v2**} | **enable** | **format device-id** | **holdtime seconds** | **timer seconds**}

**no cdp** {**advertise** | **enable** | **format device-id** | **holdtime seconds** | **timer seconds**}

Syntax Description		
<b>advertise</b>		Specifies the CDP version to advertise.
<b>enable</b>		Enables CDP globally on all interfaces and port channels.
<b>format device-id</b>		Specifies the device ID format for CDP.
<b>holdtime seconds</b>		Sets the maximum amount of time that CDP holds onto neighbor information before discarding it. The range of values is from 10 to 255.
<b>timer seconds</b>		Sets the refresh time for CDP to send advertisements to neighbors. The range of values is from 5 to 254.

**Defaults** None

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

**Usage Guidelines** None

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

**Examples** This example shows how to set CDP Version 1 as the version to advertise:

```
vsg(config)# cdp advertise v1
```

This example shows how to remove CDP Version 1 as the version to advertise:

```
vsg(config)# no cdp advertise v1
```

Related Commands	Command	Description
	<b>show cdp global</b>	Displays the CDP configuration.

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## clear ac-driver

To clear Application Container (AC) driver statistics, use the **clear ac-driver** command.

### clear ac-driver statistics

<b>Syntax Description</b>	<b>statistics</b>	Clears AC driver statistics.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Examples</b>	This example shows how to clear AC driver statistics: vsg# <b>clear ac-driver statistics</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show ac-driver statistics</b>	Displays AC driver statistics.

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## clear accounting

To clear the accounting log, use the **clear accounting** command.

**clear accounting log**

Syntax Description	log	Clears the accounting log.
--------------------	-----	----------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Examples	This example shows how to clear the accounting log: vsg# <b>clear accounting log</b>
----------	---

Related Commands	Command	Description
	<b>show accounting log</b>	Displays the accounting log.

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## clear bootvar

To clear the boot variables log, use the **clear bootvar** command.

**clear bootvar log**

<b>Syntax Description</b>	<b>log</b>	Clears the boot variables log.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Examples</b>	This example shows how to clear the boot variables log: vsg# <b>clear bootvar log</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show bootvar log</b>	Displays the accounting log.

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## clear cdp

To clear Cisco Discovery Protocol (CDP) information, use the **clear cdp** command.

```
clear cdp {counters [interface {ethernet slot-number / port-number [. subinterface-number]}] |
            mgmt 0} | table [interface {ethernet slot-number / port-number [. subinterface-number]}]}
```

### Syntax Description

<b>counters</b>	Clears the CDP counters.
<b>interface</b>	(Optional) Clears interfaces.
<b>ethernet</b>	Clears ethernet interfaces.
<i>slot / port-number</i>	Slot and port number. The range of values for slot is from 1 to 66. The range of values for port number is from 1 to 128.
<i>. sub-interface</i>	(Optional) Sub-interface number. The range of values is from 1 to 4094.
<b>mgmt 0</b>	Clears the management 0 interface.
<b>table</b>	Clears the CDP statistics table.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to clear CDP counters on all interfaces:

```
vsg# clear cdp counters
```

### Related Commands

Command	Description
<b>show cdp all</b>	Displays all interfaces that are CDP enabled.
<b>show cdp entry</b>	Displays CDP information.

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## clear cli

To clear CLI command history, use the **clear cli** command.

**clear cli history**

Syntax Description	history	Clears the CLI command history.
--------------------	---------	---------------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Examples	This example shows how to clear the CLI command history: <pre>vsg# clear cli history</pre>
----------	---

Related Commands	Command	Description
	<b>show cli history</b>	Displays the CLI command history.

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## clear cores

To clear the core files, use the **clear cores** command.

```
clear cores [archive file file-name]
```

Syntax Description	archive file	(Optional) Clears the archived core files.
	<i>file-name</i>	(Optional) Core file name.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Examples	This example shows how to clear all core files: <pre>vsg# <b>clear cores</b></pre>
----------	---

Related Commands	Command	Description
	<b>show cores</b>	Displays the core filename.



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## clear counters

To clear interface loopback counters, use the **clear counters** command.

```
clear counters [interface {all | data | ethernet slot / port [.{sub-interface}]} | loopback
virtual-interface-number | mgmt 0 | port-channel port-channel-number}]
```

Syntax	Description
<b>interface</b>	Interface counters.
<b>all</b>	Clears all interface counters.
<b>ethernet</b> <i>slot/port</i>	Clears Ethernet interface counters. The range is 1 to 66.
<b>loopback</b> <i>virtual-interface-number</i>	Clears loopback interface counters. The range is 0 to 1023.
<b>mgmt 0</b>	Clears the management interface.
<b>port-channel</b> <i>port-channel-number</i>	Clears port-channel interfaces. The range is 1 to 4096.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear a counter on a specific Ethernet interface:

```
vsg# clear counters ethernet 2/1
```

Related Commands	Command	Description
	<b>show interface counters</b>	Displays the interface status, which includes the counters.

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## clear debug-logfile

To clear the contents of the debug log, use the **clear debug-logfile** command.

**clear debug-logfile** *log-name*

Syntax Description	<i>log-name</i>	Name of the debug log.
--------------------	-----------------	------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	None
------------------	------

Examples	This example shows how to clear debug log: <pre>vsg# clear debug-logfile syslog_debug</pre>
----------	--

Related Commands	Command	Description
	<b>show debug logfile</b>	Displays the contents of the debug logfile.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear frame

To clear Layer 2 traffic statistics, use the **clear frame** command.

### clear frame statistics

Syntax Description	statistics	Clears Layer 2 traffic statistics.
--------------------	------------	------------------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Usage Guidelines	None
------------------	------

Examples	This example shows how to clear Layer 2 traffic statistics: <pre>vsg# clear frame traffic</pre>
----------	--

Related Commands	Command	Description
	<b>show vlan</b>	Displays VLAN information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear fs-daemon

To clear the FS dameon log, use the **clear fs-daemon** command.

**clear fs-daemon log**

Syntax Description	log	Clears FS daemon log.
--------------------	-----	-----------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	None
------------------	------

Examples	This example shows how to clear the FS dameon log: <pre>vsg# clear fs-daemon log</pre>
----------	---

Related Commands	Command	Description
	<b>show logging</b>	Displays the logging configuration and the contents of the log file.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear inspect

To clear FTP inspection statistics, use the **clear inspect** command.

```
clear inspect ftp statistics [svs-domain-id domain-id module module-number]
```

Syntax Description		
<b>ftp statistics</b>		Clears FTP statistics.
<b>svs-domain-id</b>		Clears FTP statistics in the SVS domain.
<i>domain-id</i>		SVS domain ID.
<b>module</b>		Clears FTP statistics on a specific module.
<i>module-number</i>		Module number.

Defaults	
	None

Command Modes	
	EXEC Global configuration (config)

SupportedUserRoles	
	network-admin network-operator

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

Examples	
	This example shows how to clear FTP inspection statistics: vsg# <b>clear inspect ftp statistics svs-domain-id 2 module 63</b>

Related Commands	Command	Description
	<b>show vsg</b>	Displays VSG information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear install

To clear the installation log, use the **clear install** command.

```
clear install {all failed-standby | failure-reason | status}
```

Syntax	Description
<b>all failed-standby</b>	Clears all the installation logs.
<b>failure-reason</b>	Clears the installation failure reason log.
<b>status</b>	Clear the installation status log.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear all the installation logs:  
vsg# **clear install failed-standby**

Related Commands	Command	Description
	<b>show install all status</b>	Displays the status of the current or last installation.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear ip adjacency statistics

To clear IP address adjacency statistics, use the **clear ip adjacency statistics** command.

**clear ip adjacency statistics**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear IP adjacency statistics:

```
vsg# clear ip adjacency statistics
```

Related Commands	Command	Description
	show ipv6 adjacency	Displays IP information.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear ip arp

To clear specific Address Resolution Protocol (ARP) IP address statistics, use the **clear ip arp** command.

```
clear ip arp ip-address [vrf {vrf-name | all | default | management}]
```

Syntax Description		
<i>ip-address</i>		IP address. The format is A.B.C.D.
<b>vrf</b>		Clears all VRF (Virtual Routing and Forwarding) ARP IP address statistics.
<i>vrf-name</i>		VRF name. The range is from 1 to 32.
<b>all</b>		Clears all ARP IP address statistics.
<b>default</b>		Clears default VRF ARP IP address statistics.
<b>management</b>		Clears management VRF ARP IP address statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear a specific ARP IP address in EXEC mode:

```
vsg# clear ip arp 209.165.200.229
```

This example shows how to clear a specific ARP IP address in configuration mode:

```
vsg# configure
vsg#(config) clear ip arp 209.165.200.229
```

Related Commands	Command	Description
	<b>show ip arp</b>	Displays IP ARP information.



[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip arp data

To clear Address Resolution Protocol (ARP) IP address statistics on the data 0 interface, use the **clear ip arp data** command.

```
clear ip arp data 0 [vrf {vrf-name | all | default | management}]
```

Syntax Description	0	Clears data 0 interface ARP IP address statistics.
	<b>vrf</b>	Clears VRF ARP IP address statistics.
	<i>vrf-name</i>	VRF name. The range is from 1 to 32.
	<b>all</b>	Clears all ARP IP address statistics.
	<b>default</b>	Clears default ARP IP address statistics.
	<b>management</b>	Clears management interface ARP IP address statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear all ARP IP address statistics on data 0 interface:

```
vsg# clear ip arp data 0 all
```

Related Commands	Command	Description
	show ip arp	Displays IP ARP information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip arp ethernet

To clear ARP IP address statistics on Ethernet interfaces, use the **clear ip arp ethernet** command.

```
clear ip arp ethernet slot-number / port-number [. | vrf vrf-name]
```

Syntax Description		
	<i>slot-number</i>	Slot number.
	<i>port-number</i>	Port number.
	<b>vrf</b>	Clears VRF ARP IP address statistics.
	<i>vrf-name</i>	VRF name. The range is from 1 to 32.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to ARP IP address statistics on an Ethernet interface:

```
vsg# clear ip arp ethernet 1 / 1
```

Related Commands	Command	Description
	<b>show ip arp</b>	Displays IP ARP information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip arp loopback

To clear ARP IP address statistics on loopbacks, use the **clear ip arp loopback** command.

```
clear ip arp loopback loopback-number [vrf vrf-name]
```

Syntax Description		
	<i>loopback-number</i>	Loopback number.
	<b>vrf</b>	Clears VRF ARP IP address statistics.
	<i>vrf-name</i>	VRF name. The range is from 1 to 32.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear ARP IP address statistics on a loopback:  
vsg# **clear ip arp loopback 10**

Related Commands	Command	Description
	<b>show ip arp</b>	Displays ARP IP address information.

**Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).**

## clear ip arp mgmt

To clear Address Resolution Protocol (ARP) IP address statistics on the management interface, use the **clear ip arp mgmt** command.

```
clear ip arp mgmt 0 [vrf {vrf-name} | all | default | management]
```

Syntax Description	0	Description
	<b>0</b>	Clears management 0 interface ARP IP address statistics.
	<b>vrf</b>	Clears VRF ARP IP address statistics.
	<i>vrf-name</i>	VRF name. The range is from 1 to 32.
	<b>all</b>	Clears all ARP IP address statistics.
	<b>default</b>	Clears default ARP IP address statistics.
	<b>management</b>	Clears management interface ARP IP address statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear ARP IP address statistics on the management interface:  
vsg# **clear ip arp mgmt all**

Related Commands	Command	Description
	<b>show ip arp</b>	Displays IP ARP information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip arp port-channel

To clear ARP IP address statistics on port channels, use the **clear ip arp port-channel** command.

```
clear ip arp port-channel port-channel-number [. sub-interface | vrf vrf-name]
```

Syntax Description	
<i>port-channel-number</i>	Port channel number.
<i>sub-interface</i>	Sub-interface number.
<b>vrf</b>	Clears VRF ARP IP address statistics.
<i>vrf-name</i>	VRF name. The range is from 1 to 32.

Defaults	
	None

Command Modes	
	EXEC
	Global configuration (config)

Supported User Roles	
	network-admin
	network-operator

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

Usage Guidelines	
	None

Examples	
	This example shows how to clear ARP IP address statistics on a port channel:
	<pre>vsg# <b>clear ip arp port-channel 2</b></pre>

Related Commands	Command	Description
	<b>show port-channel</b>	Displays port channel information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear ip arp statistics

To clear ARP IP address statistics, use the **clear ip arp statistics** command.

```
clear ip arp statistics { data 0 | ethernet | loopback | mgmt | port-channel | vrf }
```

Syntax Description		
	<b>data 0</b>	Clears the data 0 interface.
	<b>ethernet</b>	Clears the Ethernet interface.
	<b>loopback</b>	Clears the loopback interface.
	<b>mgmt</b>	Clears the management interface.
	<b>port-channel</b>	Clears the port channel interface.
	<b>vrf</b>	Clears the VRF.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear ARP IP address statistics on data 0:

```
vsg# clear ip arp statistics data 0
```

Related Commands	Command	Description
	show ip	Displays IP information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip arp vrf

To clear Address Resolution Protocol (ARP) Virtual Routing and Forwarding (VRF) IP address statistics, use the **clear ip arp vrf** command.

```
clear ip arp vrf {vrf-name | all | default | management}
```

Syntax Description	
<i>vrf-name</i>	VRF name. The range is from 1 to 32.
<b>all</b>	Clears all ARP IP address statistics.
<b>default</b>	Clears default ARP IP address statistics.
<b>management</b>	Clears management interface ARP IP address statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear IP ARP VRF IP address statistics:  
vsg# **clear ip arp vrf vrf1**

Related Commands	Command	Description
	<b>show vrf</b>	Displays VRF information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear ip igmp event-history

To clear Internet Group Management Protocol (IGMP) IP address event history entries, use the **clear ip igmp event-history** command.

**clear ip igmp event-history** {cli | debugs | events | ha | igmp-internal | mtrace | policy | vrf}

Syntax Description		
	<b>cli</b>	Clears CLI IGMP IP address event history entries.
	<b>debugs</b>	Clears debug IGMP IP address event history entries.
	<b>events</b>	Clears events IGMP IP address event history entries.
	<b>ha</b>	Clears HA IGMP IP address event history entries.
	<b>igmp-internal</b>	Clears internal IGMP IP address event history entries.
	<b>mtrace</b>	Clears Mtrace IGMP IP address event history entries.
	<b>policy</b>	Clears policy IGMP IP address event history entries.
	<b>vrf</b>	Clears VRF IGMP IP address event history entries.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear HA IGMP IP address event history entries:

```
vsg# clear ip igmp event-history ha
```

Related Commands	Command	Description
	<b>show ip igmp</b>	Displays IGMP status and the IGMP configuration.



[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip igmp snooping

To clear Internet Group Management Protocol (IGMP) IP address snooping entries, use the **clear ip igmp snooping** command.

```
clear ip igmp snooping {event-history [VPC | igmp-snoop-internal | mfdm | mfdm-sum | vlan |
vlan-events] | explicit-tracking vlan vlan-id | statistics vlan [vlan-id | all]}
```

Syntax Description		
<b>event-history</b>		Clears event history IGMP IP address snooping entries.
<b>VPC</b>	(Optional)	Clears VPC IGMP IP address snooping entries.
<b>igmp-snoop-internal</b>	(Optional)	Clears internal IGMP IP address snooping entries.
<b>mfdm</b>	(Optional)	Clears MFDM IGMP IP address snooping entries.
<b>mfdm-sum</b>	(Optional)	Clears MFDM-sum IGMP IP address snooping entries.
<b>vlan</b>	(Optional)	Clears VLAN IGMP IP address snooping entries.
<b>vlan-events</b>	(Optional)	Clears VLAN event IGMP IP address snooping entries.
<b>explicit-tracking</b>		Clears explicit tracking IGMP IP address snooping entries.
<b>statistics vlan</b>		Clears VLAN statistical IGMP IP address snooping entries.
<i>vlan-id</i>	(Optional)	VLAN identification number. The range is from 1 to 3967 or 4048 to 4093.
<b>all</b>	(Optional)	Clears all IGMP IP address snooping entries.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear all IGMP IP address snooping entries:

```
vsg# clear ip igmp snooping all
```

Related Commands	Command	Description
	<b>show ip igmp</b>	Displays IGMP status and configuration.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip interface

To clear IP address statistics on interfaces, use the **clear ip interface** command.

```
clear ip interface statistics [data 0 | ethernet slot-number / port-number [. sub-interface-number]
| loopback loopback-number | mgmt | port-channel port-channel-number
[. sub-interface-number]]
```

### Syntax Description

<b>statistics</b>	Clears IP address statistics on interfaces.
<b>data 0</b>	(Optional) Clears IP address statistics on the data 0 interface.
<b>ethernet</b>	(Optional) Clears IP address statistics on Ethernet interfaces.
<i>slot-number</i>	Slot number. The range is 1 to 66.
<i>port-number</i>	Port number. The range is 1 to 128.
<i>subinterface-number</i>	Sub-interface number. The range is 1 to 4094.
<b>loopback</b>	(Optional) Clears IP address statistics on the loopback interface.
<i>loopback-number</i>	Loopback number. The range is 0 to 123.
<b>mgmt 0</b>	(Optional) Clears IP address statistics on the management 0 interface.
<b>port-channel</b>	(Optional) Clears IP address statistics on the port channel interface.
<i>port-channel-number</i>	Port channel number. The range is 1 to 4096.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear IP address statistics on an Ethernet interface:

```
vsg# clear ip interface statistics ethernet 1 / 2
```

### Related Commands

Command	Description
<b>show ip interface</b>	Displays IP interface information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip route

To clear IP routing information, use the **clear ip route** command.

```
clear ip route {* | A.B.C.D [A.B.C.D {data 0 | ethernet slot / port | loopback loopback-number |
port-channel portchannel-number}] | A.B.C.D/LEN [A.B.C.D {data 0 | ethernet slot / port |
loopback loopback-number | port-channel portchannel-number}] | vrf {vrf-name | default |
management 0}}
```

Syntax Description		
*		Clears all IP routing information.
A.B.C.D		Clears IP routing information at a specific IP address.
data 0		Clears IP routing information on the management 0 interface.
ethernet slot / port		Clears IP routing information on a specific Ethernet interface.
loopback		Clears IP routing information on the loopback interface.
loopback-number		Loopback number. The range is from 0 to 1023.
port-channel		Clears IP routing information on the port channel.
portchannel-number		Port channel number. The range is from 1 to 4096.
A.B.C.D/LEN		Clears IP routing information at a specific IP address.
vrf		Clears IP routing information for a VRF.
vrf-name		VRF name. The range is from 1 to 32.
default		Clears default IP routing information.
management 0		Clears IP routing information on the management 0 interface.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear IP routing information:  
vsg# **clear ip route all**

■ clear ip route

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show routing</b>	Displays routes.

---

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ip traffic

To clear global IP statistics, use the **clear ip traffic** command.

```
clear ip traffic [vrf {vrf-name | default | management}]
```

Syntax Description		
<b>vrf</b>		Clears Virtual Routing and Forwarding (VRF) global IP address statistics.
<i>vrf-name</i>		VRF name. The range is from 1 to 32.
<b>default</b>		Clears default global IP address statistics.
<b>management</b>		Clears management global IP address statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear global IP statistics:  
vsg# **clear ip traffic**

Related Commands	Command	Description
	<b>show ip traffic</b>	Displays IP traffic information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear ipv6 adjacency statistics

To clear IPv6 address adjacency statistics, use the **clear ipv6 adjacency statistics** command.

**clear ipv6 adjacency statistics**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear IPv6 address adjacency statistics:

```
vsg# clear ipv6 adjacency statistics
```

Related Commands	Command	Description
	show ipv6 adjacency	Displays IPv6 statistics.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ipv6 icmp interface statistics

To clear Internet Control Management Protocol (ICMP) IPv6 interface statistics, use the **clear ipv6 icmp interface statistics** command.

```
clear ipv6 icmp interface statistics [data 0 | ethernet slot-number / port-number
[. sub-interface-number] | loopback virtual-interface-number | port-channel
port-channel-number [. sub-interface-number] ]
```

Syntax Description		
<b>data 0</b>	(Optional) Clears the data 0 interface.	
<b>ethernet</b>	(Optional) Clears the Ethernet interface.	
<i>slot-number</i>	Ethernet slot number. The range is 1 to 66.	
<i>/</i>	Slot number port number separator.	
<i>port-number</i>	Ethernet port number. The range is 1 to 128.	
<b>.</b>	Port number sub-interface number separator.	
<i>sub-interface-number</i>	(Optional) Sub-interface number. The range is 1 to 4094.	
<b>loopback</b>	Clears the loopback interface.	
<i>virtual-interface-number</i>	Virtual interface number. The range is 0 to 1023.	
<b>port-channel</b>	(Optional) Clears the port channel interface.	
<i>port-channel-number</i>	Port Channel number. The range is 1 to 4096.	

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear ICMP IPv6 Ethernet interface statistics:

```
vsg# clear ipv6 icmp interface statistics ethernet 1 / 2 . 3
```

Related Commands	Command	Description
	show ipv6 icmp	Displays ICMPv6 information.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear ipv6 icmp mld groups

To clear Internet Control Message Protocol (ICMP) Multitask Listener Discovery (MLD) group IPv6 statistics, use the **clear ipv6 icmp mld groups** command.

```
clear ipv6 icmp mld groups { * [vrf {vrf-name | all | default | management}] | A:B::C:D |
A:B::C:D/LEN }
```

Syntax Description		
<b>*</b>		Clears all routes.
<b>vrf</b>		(Optional) Clears ICMP MLD VRF IPv6 routes.
<i>vrf-name</i>		VRF name. The range is from 1 to 32.
<b>all</b>		Clears all routing information.
<b>default</b>		Clears default routing information.
<b>management</b>		Clears management routing information.
<b>A:B::C:D</b>		Clears a specific IPv6 address.
<b>A:B::C:D/LEN</b>		Clears a specific IPv6 address.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear all ICMP MLD group IPv6 statistics:  
vsg# **clear ipv6 icmp mld groups \***

Related Commands	Command	Description
	<b>show ipv6 icmp</b>	Displays ICMPv6 information.



[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ipv6 icmp mld route

To clear Internet Control Message Protocol (ICMP) Multicast Listener Discovery (MLD) routes, use the `clear ipv6 icmp mld route` command.

```
clear ipv6 icmp mld route { * [vrf {vrf-name | all | default | management}] | A:B::C:D |
A:B::C:D/LEN }
```

Syntax Description		
*		Clears all routes.
vrf		(Optional) Clears ICMP MLD VRF IPv6 routes.
vrf-name		VRF name. The range is from 1 to 32.
all		Clears all routing information.
default		Clears default routing information.
management		Clears management routing information.
A:B::C:D		Clears a specific ICMP MLD IPv6 route.
A:B::C:D/LEN		Clears a specific ICMP MLD IPv6 route.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear all IPv6 ICMP MLD routes:  
vsg# `clear ipv6 icmp mld route *`

Related Commands	Command	Description
	<code>show ipv6 icmp</code>	Displays ICMPv6 information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear ipv6 nd interface statistics

To clear ND (Neighbor Discovery) IPv6 interface statistics, use the **clear ipv6 nd interface statistics** command.

```
clear ipv6 nd interface statistics [data 0 | ethernet slot-number / port-number
[. sub-interface-number] | loopback virtual-interface-number | port-channel
port-channel-number [. sub-interface-number] ]
```

Syntax Description		
<b>data 0</b>	(Optional) Clears the data 0 interface.	
<b>ethernet</b>	(Optional) Clears the Ethernet interface.	
<i>slot-number</i>	Ethernet slot number. The range is from 1 to 66.	
/	Slot number port number separator.	
<i>port-number</i>	Ethernet port number. The range is from 1 to 128.	
.	Port number sub-interface number separator.	
<i>sub-interface-number</i>	Sub-interface number. The range is from 1 to 4094.	
<b>loopback</b>	(Optional) Clears the loopback interface.	
<i>virtual-interface-number</i>	Virtual interface number. The range is from 0 to 1023.	
<b>port-channel</b>	(Optional) Clears the port channel interface.	
<i>port-channel-number</i>	Port Channel number. The range is from 1 to 4096.	

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear IPv6 ND interface statistics:  
vsg# **clear ipv6 nd interface statistics ethernet 2 / 3 . 4**

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show ipv6 nd</b>	Displays Neighbor Discovery interface statistics.

**Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).**

## clear pktmgr client

To clear packet manager client counters, use the **clear pktmgr client** command.

```
clear pktmgr client [client-counter-uuid]
```

<b>Syntax Description</b>	<i>client-counter-uuid</i> (Optional) Client counter user identification. The range is from 0 to 4294967295.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	This example shows how to clear a packet manager client counter: <pre>vsg# clear pktmgr client 100</pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>clear routing</b>	Clears routing information.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear pktmgr interface

To clear packet manager interface information, use the **clear pktmgr interface** command.

```
clear pktmgr interface [data 0 | ethernet slot-number / port-number [. sub-interface-number] |
loopback virtual-interface-number | mgmt 0 | port-channel [. sub-interface-number]]
```

Syntax Description		
<b>data 0</b>	(Optional) Clears the data 0 interface.	
<b>ethernet</b>	(Optional) Clears the Ethernet interface.	
<i>slot-number</i>	Ethernet slot number. The range is 1 to 66.	
<i>/</i>	Slot number port number separator.	
<i>port-number</i>	Ethernet port number. The range is 1 to 128.	
<i>.</i>	Port number sub-interface number separator.	
<i>sub-interface-number</i>	Sub-interface number. The range is 1 to 4094.	
<b>loopback</b>	(Optional) Clears the loopback interface.	
<i>virtual-interface-number</i>	Virtual interface number. The range is 0 to 1023.	
<b>port-channel</b>	(Optional) Clears the port channel interface.	
<i>port-channel-number</i>	Port Channel number. The range is 1 to 4096.	

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear packet manager interface information:

```
vsg# clear pktmgr interface ethernet 10 / 11 . 12
```

Related Commands	Command	Description
	<b>clear pktmgr client</b>	Clears the packet manager client.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear line

To end a session on a specified Virtual Teletype (VTY), use the **clear line** command.

**clear line** *vtty-name*

<b>Syntax Description</b>	<i>vtty-name</i> VTY name. The range is from 1 to 64.
---------------------------	---

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Examples</b>	This example shows how to end a session on a specified VTY:  vsg# <b>clear line VTY100</b>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show users</b>	Displays active user sessions.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear logging

To clear logfile messages and logging sessions, use the **clear logging** command.

```
clear logging {logfile | session}
```

Syntax Description	logfile	Clears log file messages.
	session	Clears logging sessions.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear messages from the logging file:  
vsg# **clear logging logfile**

Related Commands	Command	Description
	show logging logfile	Displays the contents of the log file.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear ntp

To clear the Network Time Protocol (NTP) sessions and statistics, use the **clear ntp** command.

```
clear ntp {session | statistics {all-peers | io | local | memory}}
```

### Syntax Description

<b>session</b>	Clears NTP sessions.
<b>statistics</b>	Clears NTP statistics.
<b>all-peers</b>	Clear all statistics.
<b>io</b>	Clear IO statistics.
<b>local</b>	Clear local statistics.
<b>memory</b>	Clear memory statistics.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear all NTP statistics:

```
vsg# clear ntp statistics all-peers
```

### Related Commands

Command	Description
<b>show ntp peers</b>	Displays information about NTP peers.



*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear nvram

To clear the Non-volatile RAM (NVRAM), use the **clear nvram** command.

**clear nvram**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear the NVRAM:  
vsg# **clear nvram**

Related Commands	Command	Description
	<b>show system resources</b>	Displays system resources.

**Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).**

## clear policy-engine

To clear policy engine statistics, use the **clear policy-engine** command.

```
clear policy-engine {policy-name stats | stats}
```

### Syntax Description

<i>policy-name</i>	Policy engine name.
<b>stats</b>	Clears policy engine statistics.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear policy engine statistics:

```
vsg# clear policy-engine stats
```

### Related Commands

Command	Description
<b>show policy-engine</b>	Displays the policy engine.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear processes

To clear process logs, use the **clear processes** command.

```
clear processes {log {all | archive [archive-name] | pid pid-number} | vdc vdc-name {all | pid
pid-number}}
```

### Syntax Description

<b>log</b>	Clears process logs.
<b>all</b>	Clears all process logs.
<b>archive</b> <i>archive-name</i>	(Optional) Clears archived process logs.
<b>pid</b> <i>pid-number</i>	Clears the process log for a specific process.
<b>vdc</b> <i>vdc-name</i>	Clears process logs for a specific VSG.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear all process logs:

```
vsg# clear processes log all
```

### Related Commands

Command	Description
<b>show processes</b>	Displays all processes.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear rmon

To clear Remote Monitoring (RMON) logs, use the **clear rmon** command.

```
clear rmon {alarms | all-alarms | events | hcalarms}
```

Syntax Description		
	<b>alarms</b>	Clears RMON alarms.
	<b>all-alarms</b>	Clears all RMON alarms.
	<b>events</b>	Clears RMON events.
	<b>hcalarms</b>	Clears HC RMON alarms.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear RMON alarms:  
vsg# **clear rmon alarms**

Related Commands	Command	Description
	<b>show rmon</b>	Displays RMON information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear role

To clear role session information, use the **clear role** command.

**clear role session**

<b>Syntax Description</b>	<b>session</b> Clears the role session information.				
<b>Defaults</b>	None				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Examples</b>	<p>This example shows how to clear role session information:</p> <pre>vsg# clear role session</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show role</td> <td>Displays role information.</td> </tr> </tbody> </table>	Command	Description	show role	Displays role information.
Command	Description				
show role	Displays role information.				

■ clear routing \*

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing \*

To clear all routes, use the **clear routing \*** command.

**clear routing \***

---

**Syntax Description** This command has no arguments or keywords.

---

**Defaults** None

---

**Command Modes** EXEC  
Global configuration (config)

---

**SupportedUserRoles** network-admin  
network-operator

---

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

---



---

**Examples** This example shows how to clear all routes:

```
vsg# clear routing *
Clearing ALL routes
vsg#
```

---

Related Commands	Command	Description
	show routing	Displays the IP route table.

---

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing A.B.C.D

To clear specific routes, use the **clear routing A.B.C.D** command.

```
clear routing ip-address [ip-address {data 0 | ethernet slot-number / port-number
[.sub-interface-number]}] | loopback virtual-interface-number | port-channel
port-channel-number}]
```

Syntax Description		
<i>ip-address</i>		IP address. The format is A.B.C.D.
<b>data 0</b>		(Optional) Clears routing on the data 0 interface.
<b>ethernet</b>		(Optional) Clears routing on Ethernet interfaces.
<i>slot-number</i>		Slot number. The range is from 1 to 66.
/		Slot and port number separator.
<i>port-number</i>		Port number. The range is from 1 to 128.
.		Sub-interface separator.
<i>subinterface-number</i>		Sub-interface number. The range is from 1 to 4094.
<b>loopback</b>		(Optional) Clears routing on the loopback interface.
<i>virtual-interface-number</i>		Loopback number. The range is from 0 to 123.
<b>mgmt 0</b>		(Optional) Clears routing on the management 0 interface.
<b>port-channel</b>		(Optional) Clears routing on the port channel interface.
<i>port-channel-number</i>		Port channel number. The range is from 1 to 4096.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear routes on the data 0 interface:  
vsg# **clear routing 209.165.200.228 data 0**

**Related Commands**

■ clear routing A.B.C.D

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

Command	Description
show routing	Displays the IP route table.



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## clear routing A.B.C.D/LEN

To clear specific routes, use the **clear routing A.B.C.D** command.

```
clear routing ip-address [ip-address {data 0 | ethernet slot-number / port-number
[. {sub-interface-number}] | loopback virtual-interface-number | port-channel
port-channel-number}]
```

Syntax Description		
<i>ip-address</i>		IP address. The format is A.B.C.D.
<b>data 0</b>		(Optional) Clears routing on the data 0 interface.
<b>ethernet</b>		(Optional) Clears routing on Ethernet interfaces.
<i>slot-number</i>		Slot number. The range is from 1 to 66.
<i>/</i>		Slot and port number separator.
<i>port-number</i>		Port number. The range is from 1 to 128.
<i>.</i>		Sub-interface separator.
<i>subinterface-number</i>		Sub-interface number. The range is from 1 to 4094.
<b>loopback</b>		(Optional) Clears routing on the loopback interface.
<i>virtual-interface-number</i>		Loopback number. The range is from 0 to 123.
<b>mgmt 0</b>		(Optional) Clears routing on the management 0 interface.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear routes on the data 0 interface:

```
vsg# clear routing 209.165.200.228 data 0
```

Related Commands	Command	Description
	<b>show routing</b>	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing event-history

To clear routing event histories, use the **clear routing event-history** command.

```
clear routing event-history {add-route | cli | delete-route | errors | general | loop-detection |
                             modify-route | notifications | recursive-next-hop | summary | udfm | udfm-summary }
```

Syntax	Description
<b>add-route</b>	Clears the added routes event history.
<b>cli</b>	Clears the Command Line Interface (CLI) routing event history.
<b>delete-route</b>	Clears the deleted routes event history.
<b>errors</b>	Clears the error routes event history.
<b>general</b>	Clears the general routes event history.
<b>loop-detection</b>	Clears the loop-detection routes event history.
<b>modify-route</b>	Clears the modified routes event history.
<b>notifications</b>	Clears the notification routes event history.
<b>recursive-next-hop</b>	Clears the recursive-next-hop routing event history.
<b>summary</b>	Clears the summary routing event history.
<b>udfm</b>	Clears the UDFM routing event history.
<b>udfm-summary</b>	Clears the UDFM summary routing event history.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear the loop-detection routes event history:

```
vsg# clear routing event-history loop-detection
```

Related Commands	Command	Description
	<b>show routing</b>	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing ip \*

To clear all IP routes, use the **clear routing ip \*** command.

```
clear routing ip *
```

<b>Syntax Description</b>	This command has no arguments or keywords.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Examples</b>	This example shows how to clear all IP routes: <pre>vsg# clear routing ip *</pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show routing</b>	Displays the IP route table.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing ip A.B.C.D

To clear IP routing statistics, use the **clear routing ip** command.

```
clear routing ip ip-address [data 0 | ethernet slot-number / port-number [. sub-interface-number]
| loopback virtual-interface-number | mgmt 0 | port-channel [. sub-interface-number]]
```

### Syntax Description

<b>data 0</b>	Clears the data 0 interface.
<b>ethernet</b>	Clears the Ethernet interface.
<i>slot-number</i>	Ethernet slot number. The range is from 1 to 66.
<i>/</i>	Slot number port number separator.
<i>port-number</i>	Ethernet port number. The range is from 1 to 128.
<i>.</i>	Port number sub-interface number separator.
<i>sub-interface-number</i>	Sub-interface number. The range is from 1 to 4094.
<b>loopback</b>	Clears the loopback interface.
<i>virtual-interface-number</i>	Virtual interface number. The range is from 0 to 1023.
<b>port-channel</b>	Clears the port channel interface.
<i>port-channel-number</i>	Port Channel number. The range is from 1 to 4096.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear IP routes on slot 2, port 3:

```
vsg# clear routing ip ethernet 2 / 3
```

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

Related Commands	Command	Description
	show routing	Displays the IP route table.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing ip A.B.C.D/LEN

To clear routing, use the **clear routing ip A.B.C.D/LEN** command.

```
clear routing ip ip-address [ip-address {data 0 | ethernet slot-number / port-number
[.{sub-interface-number}] | loopback virtual-interface-number | port-channel
port-channel-number}]
```

Syntax Description		
<b>data 0</b>		Clears the data 0 interface.
<b>ethernet</b>		Clears the Ethernet interface.
<i>slot-number</i>		Ethernet slot number. The range is from 1 to 66.
<i>/</i>		Slot number port number separator.
<i>port-number</i>		Ethernet port number. The range is from 1 to 128.
<i>.</i>		Port number sub-interface number separator.
<i>sub-interface-number</i>		Sub-interface number. The range is from 1 to 4094.
<b>loopback</b>		Clears the loopback interface.
<i>virtual-interface-number</i>		Virtual interface number. The range is from 0 to 1023.
<b>port-channel</b>		Clears the port channel interface.
<i>port-channel-number</i>		Port Channel number. The range is from 1 to 4096.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear IP routes:  
vsg# **clear routing ip 209.165.200.228**

Related Commands	Command	Description
	<b>show routing</b>	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing ip event-history

To clear routing event histories, use the **clear routing ip event-history** command.

```
clear routing ip event-history {add-route | cli | delete-route | errors | general | loop-detection |
modify-route | notifications | recursive-next-hop | summary | udfm | udfm-summary }
```

Syntax Description		
<b>add-route</b>		Clears the added routes event history.
<b>cli</b>		Clears the CLI routing event history.
<b>delete-route</b>		Clears the deleted routes event history.
<b>errors</b>		Clears the error routes event history.
<b>general</b>		Clears the general routes event history.
<b>loop-detection</b>		Clears the loop-detection routes event history.
<b>modify-route</b>		Clears the modified routes event history.
<b>notifications</b>		Clears the notification routes event history.
<b>recursive-next-hop</b>		Clears the recursive-next-hop routing event history.
<b>summary</b>		Clears the summary routing event history.
<b>udfm</b>		Clears the UDFM routing event history.
<b>udfm-summary</b>		Clears the UDFM summary routing event history.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear the notifications routes event history:

```
vsg# clear routing ip event-history notifications
```

■ clear routing ip event-history

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show routing</b>	Displays the IP route table.

---



*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing ip unicast

To clear unicast routing entries, use the **clear routing ip unicast** command.

```
clear routing ip unicast { * | A.B.C.D | A.B.C.D/LEN | event-history }
```

Syntax Description		
	*	Clears all IP unicast routes.
	A.B.C.D	Clears a specific IP unicast route.
	A.B.C.D/LEN	Clears a specific IP unicast route.
	event-history	Clears the IP unicast event history.

Defaults	
	None

Command Modes	
	EXEC
	Global configuration (config)

SupportedUserRoles	
	network-admin
	network-operator

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

Examples	
	This example shows how to clear all IP unicast routes:
	<pre>vsg# clear routing ip unicast *</pre>

Related Commands	Command	Description
	show routing	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing ipv4

To clear IPv4 route entries, use the **clear routing ipv4** command.

```
clear routing ipv4 { * | A.B.C.D | A.B.C.D/LEN | event-history | unicast }
```

Syntax Description		
	*	Clears all IPv4 routes.
	A.B.C.D	Clears a specific IPv4 route.
	A.B.C.D/LEN	Clears a specific IPv4 route.
	event-history	Clears the IPv4 routing event history.
	unicast	Clears IPv4 unicast routes.

Defaults	
	None

Command Modes	
	EXEC
	Global configuration (config)

SupportedUserRoles	
	network-admin
	network-operator

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

Examples	
	This example shows how to clear all IPv4 routes:
	vsg# <b>clear routing ipv4 *</b>

Related Commands	Command	Description
	show routing	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing ipv6

To clear IPv6 route entries, use the **clear routing ipv6** command.

```
clear routing ipv6 { * | A:B::C:D | A:B::C:D/LEN | event-history | unicast }
```

Syntax Description		
*		Clears all IPv6 routes.
A.B.C.D		Clears a specific IPv6 route.
A.B.C.D/LEN		Clears a specific IPv6 route.
event-history		Clears the IPv6 routing event history.
unicast		Clears IPv6 unicast routes.

Defaults	
	None

Command Modes	
	EXEC Global configuration (config)

SupportedUserRoles	
	network-admin network-operator

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

Examples	
	This example shows how to clear all IPv6 routes: vsg# <b>clear routing ipv6 *</b>

Related Commands	Command	Description
	<b>show routing</b>	Displays the IP route table.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear routing vrf

To clear Virtual Routing and Forwarding (VRF) routes, use the **clear routing vrf** command.

**clear routing vrf** *vrf-name*

<b>Syntax Description</b>	<i>vrf-name</i>	VRF name. The range is from 1 to 32.
---------------------------	-----------------	--------------------------------------

<b>Defaults</b>	None	
-----------------	------	--

<b>Command Modes</b>	EXEC Global configuration (config)	
----------------------	---------------------------------------	--

<b>SupportedUserRoles</b>	network-admin network-operator	
---------------------------	-----------------------------------	--

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Examples</b>	This example shows how to clear VRF routes: <pre>vsg# clear routing vrf vrfTest</pre>	
-----------------	--	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show routing</b>	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing vrf default

To clear Virtual Routing and Forwarding (VRF) routes, use the **clear routing vrf default** command.

```
clear routing vrf default { * | A.B.C.D | A.B.C.D/LEN | ip | ipv4 | ipv6 | unicast }
```

Syntax Description		
*		Clears all VRF routes.
A.B.C.D		Clears a specific VRF route.
A.B.C.D/LEN		Clears a specific VRF route.
ip		Clears IP VRF routes.
ipv4		Clears IPv4 VRF routes.
ipv6		Clears IPv6 VRF routes.
unicast		Clears unicast VRF routes.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear VRF routes:  
vsg# **clear routing vrf default \***

Related Commands	Command	Description
	<b>show routing</b>	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear routing vrf management \*

To clear all Virtual Routing and Forwarding (VRF) management routes, use the **clear routing vrf management \*** command.

**clear routing vrf management \***

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear all VRF management routes:  
vsg# **clear routing vrf management \***

Related Commands	Command	Description
	<b>show routing</b>	Displays the IP route table.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing vrf management *ethernet address*

To clear specific Virtual Routing and Forwarding (VRF) management routes, use the **clear routing vrf management *ethernet-address*** command.

```
clear routing vrf management ethernet-address [ethernet-address {data 0 | ethernet slot-number
/ port-number [. sub-interface] | loopback loopback-number | port-channel port-number [.
sub-interface]}]
```

### Syntax Description

<i>ethernet-address</i>	(Optional) Ethernet address.
<b>data 0</b>	Clears VRF management routes.
<b>ethernet</b>	Clears VRF management routes on Ethernet ports.
<i>slot-number</i>	Ethernet port slot number.
/	Slot and port separator.
<i>port-number</i>	Ethernet port number.
. <i>sub-interface</i>	(Optional) Ethernet sub-interface.
<b>loopback</b>	Clears VRF management routes on a loopback.
<i>loopback-number</i>	Loopback number.
<b>port-channel</b>	Clears VRF management routes on a port-channel.
<i>port-number</i>	Port-channel number.
<b>unicast</b>	Clears unicast IP routes.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear a specific set of Ethernet routes:

```
vsg# clear routing vrf management 209.165.200.226 209.165.200.236 ethernet 2 / 4
```

■ clear routing vrf management ethernet address

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Related Commands	Command	Description
	show routing	Displays the IP route table.



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## clear routing vrf management ethernet address/LEN

To clear specific VRF management routes, use the **clear routing vrf management ethernet-address/length** command.

```
clear routing vrf management ethernet-address [ethernet-address {data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}
```

Syntax Description		
<i>ethernet-address</i>		Ethernet address.
<b>data 0</b>		Clears VRF management routes.
<b>ethernet</b>		Clears VRF management routes on Ethernet ports.
<i>slot-number</i>		Ethernet port slot number.
<i>port-number</i>		Ethernet port number.
<i>. sub-interface</i>		Ethernet sub-interface.
<b>loopback</b>		Clears VRF management routes on a loopback.
<i>loopback-number</i>		Loopback number.
<b>port-channel</b>		Clears VRF management routes on a port-channel.
<i>port-number</i>		Port-channel number.
<b>unicast</b>		Clears unicast IP routes.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear a specific set of Ethernet routes:

```
vsg# clear routing vrf management 209.165.200.226 209.165.200.236 ethernet 2 / 4
```

■ clear routing vrf management ethernet address/LEN

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

Related Commands	Command	Description
	show routing	Displays the IP route table.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing vrf management ip

To clear Virtual Routing and Forwarding (VRF) IP management routes, use the **clear routing vrf management ip** command.

```
clear routing vrf management ip { * | A.B.C.D [A.B.C.D {data 0 | ethernet slot-number /
port-number [. sub-interface] | loopback loopback-number | port-channel port-number [.
sub-interface}] | A.B.C.D/LEN [A.B.C.D {data 0 | ethernet slot-number / port-number [.
sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface}] |
unicast [A.B.C.D {data 0 | ethernet slot-number / port-number [. sub-interface] | loopback
loopback-number | port-channel port-number [. sub-interface}]}
```

### Syntax Description

<b>*</b>	Clears all IP routes.
<b>A.B.C.D</b>	(Optional) Clears a specific VRF management IP route.
<b>data 0</b>	Clears VRF management IP routes.
<b>ethernet</b>	Clears VRF management IP routes on Ethernet ports.
<i>slot-number</i>	Ethernet port slot number.
<i>/</i>	Slot number and port number separator.
<i>port-number</i>	Ethernet port number.
<i>.</i>	Subinterface separator.
<i>sub-interface</i>	(Optional) Ethernet subinterface.
<b>loopback</b>	Clears VRF management IP routes on a loopback.
<i>loopback-number</i>	Loopback number.
<b>port-channel</b>	Clears VRF management IP routes on a port-channel.
<i>port-number</i>	Port-channel number.
<b>unicast</b>	Clears unicast IP routes.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

■ clear routing vrf management ip

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---

**Examples**

This example shows how to clear all IP unicast routes:

```
vsg# clear routing vrf management ip unicast *
```

---

**Related Commands**

Command	Description
show routing	Displays the IP route table.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing vrf management ipv4

To clear IPv4 VRF management routes, use the **clear routing vrf management ipv4** command.

```
clear routing vrf management ipv4 { * | A.B.C.D [A.B.C.D { data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}] | A.B.C.D/LEN [A.B.C.D { data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}] | unicast [A.B.C.D { data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}]}
```

### Syntax Description

<b>*</b>	Clears all IPv4 routes.
<b>A.B.C.D</b>	Clears a specific VRF management IPv4 route.
<b>data 0</b>	Clears VRF management IPv4 routes.
<b>ethernet</b>	Clears VRF management IPv4 routes on Ethernet ports.
<i>slot-number</i>	Ethernet port slot number.
<i>/</i>	Slot number and port number separator.
<i>port-number</i>	Ethernet port number.
<i>.</i>	Subinterface separator.
<i>sub-interface</i>	Ethernet sub-interface.
<b>loopback</b>	Clears VRF management IPv4 routes on a loopback.
<i>loopback-number</i>	Loopback number.
<b>port-channel</b>	Clears VRF management IPv4 routes on a port-channel.
<i>port-number</i>	Port-channel number.
<b>unicast</b>	Clears unicast IP routes.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear an IPv4 VRF management route:

■ clear routing vrf management ipv4

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```
vsg# clear routing vrf management ipv4 209:165::200:229
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show routing</b>	Displays the IP route table.

---

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## clear routing vrf management ipv6

To clear IPv6 VRF management routes, use the **clear routing vrf management ipv6** command.

```
clear routing vrf management ipv6 { * | A.B.C.D [A.B.C.D { data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}] | A.B.C.D/LEN [A.B.C.D { data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}] | unicast [A.B.C.D { data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}]}
```

### Syntax Description

<b>*</b>	Clears all IPv6 routes.
<b>A.B.C.D</b>	Clears a specific IPv6 route.
<b>data 0</b>	Clears VRF management IPv6 routes.
<b>ethernet</b>	Clears VRF management IPv6 routes on Ethernet ports.
<i>slot-number</i>	Ethernet port slot number.
<i>/</i>	Slot number and port number separator.
<i>port-number</i>	Ethernet port number.
<i>.</i>	Subinterface separator.
<i>sub-interface</i>	Ethernet sub-interface.
<b>loopback</b>	Clears VRF management IPv6 routes on a loopback.
<i>loopback-number</i>	Loopback number.
<b>port-channel</b>	Clears VRF management IPv6 routes on a port-channel.
<i>port-number</i>	Port-channel number.
<b>unicast</b>	Clears unicast IP routes.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to clear an IPv6 VRF management route:

■ clear routing vrf management ipv6

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```
vsg# clear routing vrf management ipv6 209:165::200:225
```

---

**Related Commands**

Command	Description
<code>show routing</code>	Displays the IP route table.

---



***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear routing vrf management unicast

To clear unicast VRF management routes, use the **clear routing vrf management unicast** command.

```
clear routing vrf management unicast [* | A.B.C.D [A.B.C.D {data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}] | A.B.C.D/LEN [A.B.C.D {data 0 | ethernet slot-number / port-number [. sub-interface] | loopback loopback-number | port-channel port-number [. sub-interface]}]]
```

### Syntax Description

<b>*</b>	Clears all unicast routes.
<b>A.B.C.D</b>	Clears a specific VRF management unicast route.
<b>data 0</b>	Clears VRF management unicast routes.
<b>ethernet</b>	Clears VRF management unicast routes on Ethernet ports.
<i>slot-number</i>	Ethernet port slot number.
<i>/</i>	Slot number and port number separator.
<i>port-number</i>	Ethernet port number.
<i>.</i>	Subinterface separator.
<i>sub-interface</i>	Ethernet sub-interface.
<b>loopback</b>	Clears VRF management unicast routes on a loopback.
<i>loopback-number</i>	Loopback number.
<b>port-channel</b>	Clears VRF management unicast routes on a port-channel.
<i>port-number</i>	Port-channel number.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

■ clear routing vrf management unicast

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---

**Examples**

This example shows how to clear a specific unicast route:

```
vsg# clear routing vrf management unicast 209.165.200.225
```

---

**Related Commands**

Command	Description
show routing	Displays the IP route table.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear scheduler

To clear the scheduler log, use the **clear scheduler** command.

**clear scheduler logfile**

<b>Syntax Description</b>	<b>logfile</b>	Clears the scheduler log.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Examples</b>	This example shows how to clear the scheduler log file: vsg# <b>clear scheduler logfile</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show scheduler logfile</b>	Displays the scheduler log file.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear screen

To clear the screen, use the **clear screen** command.

```
clear screen
```

---

**Syntax Description** This command has no key words or arguments.

---

**Defaults** None

---

**Command Modes** EXEC  
Global configuration (config)

---

**Supported User Roles** network-admin  
network-operator

---

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

---



---

**Examples** This example shows how to clear the screen:

```
vsg# clear screen
```

---

Related Commands	Command	Description
	show terminal	Displays terminal configuration parameters.

---

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## clear service-path

To clear service path information, use the **clear service-path** command.

```
clear service-path {connection | statistics [svs-domain-id id module module-number]}
```

Syntax Description		
<b>connection</b>		Clears all the connection entries in the flow table.
<b>statistics</b>		Clears service path statistics.
<b>svs-domain-id</b>		Clears the SVS domain identification number.
<i>id</i>		DVS domain identification number.
<b>module</b>		Clears module information.
<i>module-number</i>		Module number.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear service path statistics:  
vsg# **clear service-path statistics**

Related Commands	Command	Description
	<b>show service-path statistics</b>	Displays service path statistics.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear snmp

To clear Simple Network Management Protocol (SNMP) information, use the **clear snmp** command.

```
clear snmp {counters | hostconfig}
```

Syntax Description	counters	Clear the SNMP counters.
	hostconfig	Clears the SNMP host list.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear SNMP counters:  
vsg# **clear snmp counters**

Related Commands	Command	Description
	<b>show snmp community</b>	Displays SNMP community strings.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear sockets

To clear socket statistics, use the **clear sockets** command.

```
clear sockets {all | raw | raw6 | tcp | tcp6 | udp | udp6}
```

Syntax Description	all	Clears all socket statistics.
	raw	Clears RAW v4 statistics.
	raw6	Clears RAW v6 statistics.
	tcp	Clears TCP v4 statistics.
	tcp6	Clears TCP v6 statistics.
	udp	Clears UDP v4 statistics.
	udp6	Clears UDP v6 statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to clear socket statistics:

```
vsg# clear sockets all
```

Related Commands	Command	Description
	show sockets statistics	Displays TCP socket statistics.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear ssh

To clear the Secure Shell (SSH) host session, use the **clear ssh** command.

**clear ssh hosts**

Syntax Description	hosts	Clears the SSH host session.
--------------------	-------	------------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Examples	This example shows how to clear all SSH host sessions: <pre>vsg# clear ssh hosts</pre>
----------	---

Related Commands	Command	Description
	<b>show ssh</b>	Displays SSH information.



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## clear system internal ac application

To clear application containers, use the **clear system internal ac application** command.

**clear system internal ac application** *application-name* **instance** *instance-number* [**fe** *fe-name*]

Syntax Description	
<i>application-name</i>	Application container name.
<b>instance</b>	Clears the application container instance.
<i>instance-number</i>	Application container instance number.
<b>fe</b>	(Optional) Clears the functional element.
<i>fe-name</i>	(Optional) Functional element name.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Examples** This example shows how to clear an application container:  
vsg# **clear system internal ac application core instance 1**

Related Commands	Command	Description
	<b>show system internal ac application</b>	Displays application container information.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## clear system internal ac ipc-stats

To clear application container Instructions per Cycle (IPC) statistics, use the **clear system internal ac ipc-stats** command.

```
clear system internal ac ipc-stats fe {attribute-manager | inspection-ftp | inspection-rsh |
inspection-tftp | service-path}
```

Syntax Description	fe	Clears the functional element.
	<b>attribute-manager</b>	Clears the attribute manager FE.
	<b>inspection-ftp</b>	Clears the inspection FTP FE.
	<b>inspection-rsh</b>	Clears the inspection RSH FE.
	<b>inspection-tftp</b>	Clears the inspection TFTP FE.
	<b>service-path</b>	Clears the service path FE.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear application container IPC statistics:

```
vsg# clear system internal ac ipc-stats
vsg#
```

Related Commands	Command	Description
	<b>show system internal ac application</b>	Displays application container information.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## clear user

To clear a user session, use the **clear user** command.

```
clear user user-id
```

<b>Syntax Description</b>	<i>user-id</i>	User identification number.
---------------------------	----------------	-----------------------------

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	This example shows how to clear a user session: vsg# <b>clear user user1</b>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	show users	Displays user session information.

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## cli

To define a Command Line Interface (CLI) variable for a terminal session, use the **cli** command. To remove the CLI variable, use the **no** form of the command.

**cli var name** *variable-name variable-text*

**cli no var name** *variable-name*

### Syntax Description

<i>variable-name</i>	Variable name. The name is alphanumeric, case sensitive, and has a maximum of 31 characters.
<i>variable-text</i>	Variable text. The text is alphanumeric, can contain spaces, and has a maximum of 200 characters.

### Defaults

None

### Command Modes

EXEC

### Supported User Roles

network-admin

### Command History

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

### Usage Guidelines

You can reference a CLI variable using the following syntax:

`$(variable-name)`

Instances where you can use variables are as follows:

- Command scripts
- Filenames

You cannot reference a variable in the definition of another variable.

You can use the predefined variable, `TIMESTAMP`, to insert the time of day. You cannot change or remove the `TIMESTAMP` CLI variable.

You must remove a CLI variable before you can change its definition.

### Examples

This example shows how to define a CLI variable:

```
vsg# cli var name testinterface interface 2/3
vsg#
```

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This example shows how to reference the `TIMESTAMP` variable:

```
vsg# copy running-config > bootflash:run-config-$(TIMESTAMP).cnfg
vsg#
```

This example shows how to remove a CLI variable:

```
vsg# cli no var name testinterface interface 2/3
vsg#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<code>show cli variables</code>	Displays the CLI variables.

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## clock set

To manually set the clock, use the **clock set** command.

**clock set** *time day month year*

Syntax Description		
<i>time</i>		Time of the day. The format is <i>HH:MM:SS</i> .
<i>day</i>		Day of the month. The range is from 1 to 31.
<i>month</i>		Month of the year. The values are <b>January, February, March, April, May, June, July, August, September, October, November, and December</b> .
<i>year</i>		Year. The range is from 2000 to 2030.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** Use this command when you cannot synchronize your device with an outside clock source, such as a Network Time Protocol (NTP) server.

**Examples** This example shows how to manually set the clock:

```
vsg# clock set 9:00:00 29 January 2011
vsg#
```

Related Commands	Command	Description
	<b>show clock</b>	Displays the clock time.

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# configure

To enter configuration mode, use the **configure** command.

**configure**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network operator

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

**Examples** This example shows how to enter configuration mode:

```
vsg# configure
Enter configuration commands, one per line. End with CNTL/Z.
vsg(config)#
```

Related Commands	Command	Description
	<b>interface data 0</b>	Enters interface configuration mode.

■ **copy bootflash:**

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## copy bootflash:

To copy files from the bootflash directory, use the **copy bootflash:** command.

**copy bootflash:***//file-address destination-address*

Syntax Description		
	<i>//file-address</i>	Address of the files to copy.
	<i>destination-address</i>	Address of the destination directory.
		Use one of the following directories in the destination address:
		<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	<p>This example shows how to copy a file from a remote bootflash directory to a local bootflash directory:</p> <pre>vsg# copy bootflash://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-dplug.bin bootflash:/</pre>
-----------------	--



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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>copy volatile:</b>	Copies files from the volatile: directory.

---

■ **copy core:**

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## copy core:

To copy files from the core directory, use the **copy core:** command.

**copy core:***<//file-address> destination-address*

<b>Syntax Description</b>	<i>//file-address</i>	Address of the files to copy.
	<i>destination-address</i>	Address of the destination directory.
		Use one of the following directories in the destination address: <ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>ftp:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>tftp:</b></li> </ul>
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	None	
<b>Examples</b>	This example shows how to copy a file from a remote core directory to a local volatile directory: vsg# <b>copy core:</b> <i>//jjones@209.193.10.11/ps/jjones-rtg/vsgLog.txt volatile:/</i>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>copy log:</b>	Copies files from the log directory.

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## copy debug:

To copy files from the debug directory, use the **copy debug:** command.

**copy debug:**<//file-address> destination-address

Syntax Description	debug://file-address	Address of the files to copy.
	destination-address	Address of the destination directory.
		Use one of the following directories in the destination address:
		<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	<p>This example shows how to copy a file from a remote debug directory to a local volatile directory:</p> <pre>vsg# copy debug://jjones@209.193.10.11/ps/jjones-rtg/vsgLog.txt volatile:/</pre>
-----------------	---

■ `copy debug:`

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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<code>copy bootflash:</code>	Copies files from the bootflash directory.

---

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## copy ftp:

To copy files from the FTP directory, use the **copy ftp:** command.

**copy ftp:***//file-address destination-address*

Syntax Description		
	<i>//file-address</i>	Address of the files to copy.
	<i>destination-address</i>	The address of the destination directory.
		Use one of the following directories in the destination address:
		<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>system:</b></li> <li>• <b>volatile:</b></li> </ul>

Defaults	
	None

Command Modes	
	EXEC
	Global configuration (config)

Supported User Roles	
	network-admin
	network-operator

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

Examples	
	This example shows how to transfer a file from a remote FTP directory to a local bootflash directory:
	<pre>vsg# copy ftp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin bootflash:/</pre>

Related Commands	Command	Description
	<b>copy sftp:</b>	Copies the files from the SFTP directory.

■ **copy log:**

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## copy log:

To copy files from the log directory, use the **copy log:** command.

**copy log:***//file-address destination-address*

Syntax Description	
<i>//file-address</i>	Address of the files to copy.
<i>destination-address</i>	Address of the destination directory.
	Use one of the following directories in the destination address:
	<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Examples** This example shows how to copy files from a remote log directory to a local volatile directory:

```
vsg# copy log://jjones@209.193.10.11/ps/jjones-rtg/vsgLog.txt volatile:/
```

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Related Commands	Command	Description
	copy debug:	Copies files from the debug directory.

■ **copy modflash:**

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## copy modflash:

To copy files from the modflash directory, use the **copy modflash:** command.

**copy modflash:** <*//file-address*> *destination-address*

Syntax Description		
<i>//file-address</i>		Address of the files to copy.
<i>destination-address</i>		Address of the destination directory.
		Use one of the following directories in the destination address:
		<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	<p>This example shows how to copy files from a remote modflash directory to a local volatile directory:</p> <pre>vsg# copy modflash://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-mod.bin volatile:/</pre>
-----------------	---



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Related Commands	Command	Description
	copy nvram:	Copies files from the NVRAM directory.

■ **copy nvram:**

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## copy nvram:

To copy files from the NVRAM directory, use the **copy nvram:** command.

**copy nvram:***//file-address destination-address*

Syntax Description		
<i>//file-address</i>		Address of the NVRAM files to copy.
<i>destination-address</i>		Address of the destination directory.
		Use one of the following directories in the destination address:
		<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	<p>This example shows how to copy files from a remote NVRAM directory to a local volatile directory:</p> <pre>vsg# copy nvram://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-ram.bin volatile:/</pre>
-----------------	---

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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>copy modflash:</b>	Copies files from a modflash directory.

---

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## copy running-config

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

**copy running-config** *destination-address* [**all-vdc**]

### Syntax Description

<i>destination-address</i>	Address of the destination directory. Use one of the following directories in the destination address: <ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>ftp:</b></li> <li>• <b>nvr:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>
<b>all-vdc</b>	Copies to all VDCs.

### Defaults

None

### Command Modes

EXEC  
Global configuration

### Supported User Roles

network-admin

### Command History

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

### Examples

This example shows how to copy the running configuration to the bootflash directory:

```
vsg# copy running-config bootflash:
```

### Related Commands

Command	Description
<b>copy startup-config</b>	Copies a startup configuration to a specified destination.

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## copy scp:

To copy files from the SCP directory, use the **copy scp:** command.

```
copy scp://file-address destination-address
```

Syntax Description	
<i>//file-address</i>	Address of the files to copy.
<i>destination-address</i>	Address of the destination directory.
	Use one of the following directories in the destination address:
	<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>running-config</b></li> <li>• <b>startup-config</b></li> <li>• <b>system:</b></li> <li>• <b>volatile:</b></li> </ul>

Defaults	
	None

Command Modes	
	EXEC
	Global configuration (config)

SupportedUserRoles	
	network-admin
	network-operator

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

Examples	
	This example shows how to copy files from a remote SCP directory to a local volatile directory:
	<pre>vsg# copy scp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin volatile:/</pre>

Related Commands	Command	Description
	<b>copy sftp:</b>	Copies files from the SFTP directory.

■ **copy sftp:**

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## copy sftp:

To copy files from the SFTP directory, use the **copy sftp:** command.

**copy sftp:***//file-address destination-address*

Syntax Description	
<i>//file-address</i>	Address of the files to copy.
<i>destination-address</i>	Address of the destination directory.
	Use one of the following directories in the destination address:
	<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>system:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	<p>This example shows how to transfer a file from a remote SFTP directory to a local bootflash directory:</p> <pre>vsg# copy sftp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin bootflash:/</pre>
-----------------	--

Related Commands	Command	Description
	<b>copy tftp:</b>	Copies files from the TFTP directory.

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## copy startup-config

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

**copy startup-config** *destination-address* [**all-vdc**]

Syntax Description	<i>destination-address</i>	Address of the destination directory. Use one of the following directories in the destination address:
		<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>ftp:</b></li> <li>• <b>nvr:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>
	<b>all-vdc</b>	Copies to all VDCs.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**Supported User Roles** network-admin

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

**Examples** This example shows how to copy the startup configuration to the bootflash directory:  
vsg# **copy startup-config bootflash:**

Related Commands	Command	Description
	<b>copy running-config</b>	Copies a running configuration to a specified destination.

■ **copy system:**

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## copy system:

To copy files from the file directory, use the **copy system:** command.

**copy system:***//file-address destination-address*

### Syntax Description

<i>//file-address</i>	Address of the files to copy.
<i>destination-address</i>	Address of the destination directory.
	You use one of the following directories in the destination address:
	<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Examples

This example shows how to copy files from a remote file directory to a local bootflash directory:

```
vsg# copy system://pkim@209.193.10.12/ps/pkim-rich/vsg-dplug.bin bootflash:/
```



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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>copy bootflash:</b>	Copies files to the bootflash directory.

---

■ **copy tftp:**

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## copy tftp:

To copy files from the TFTP directory, use the **copy tftp:** command.

**copy tftp://file-address destination-address**

<b>Syntax Description</b>	<i>//file-address</i>	Address of the files to copy.
	<i>destination-address</i>	Address of the destination directory. Use one of the following directories in the destination address: <ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>system:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Examples</b>	This example shows how to copy files from a remote TFTP directory to a local bootflash directory: vsg# <b>copy tftp://jjones@209.193.10.11/ps/jjones-rtg/vsg-dplug.bin bootflash:/</b>
-----------------	---

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

Related Commands	Command	Description
	copy sftp:	Copies files from the SFTP directory.

■ **copy volatile:**

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## copy volatile:

To copy files from the volatile directory, use the **copy volatile:** command.

**copy volatile:***//file-address destination-address*

Syntax Description	
<i>//file-address</i>	Address of the file to copy.
<i>destination-address</i>	Address of the destination directory.
	Use one of the following directories in the destination address:
	<ul style="list-style-type: none"> <li>• <b>bootflash:</b></li> <li>• <b>debug:</b></li> <li>• <b>ftp:</b></li> <li>• <b>log:</b></li> <li>• <b>modflash:</b></li> <li>• <b>nvr:</b></li> <li>• <b>nvram:</b></li> <li>• <b>scp:</b></li> <li>• <b>sftp:</b></li> <li>• <b>system:</b></li> <li>• <b>tftp:</b></li> <li>• <b>volatile:</b></li> </ul>

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Examples</b>	This example shows how to copy files from a remote volatile directory to a local bootflash directory: <pre>vsg# copy volatile://jsmith@209.193.10.10/ws/jsmith-sjc/vsg-dplug.bin bootflash:/</pre>
-----------------	---

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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>copy bootflash:</b>	Copies files from the bootflash directory.

---

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## debug logfile (here)

To direct the output of the **debug** command to a specified file, use the **debug logfile** command. To revert to the default, use the **no** form of the command.

**debug logfile** *filename* [*size bytes*]

**no debug logfile** *filename* [*size bytes*]

### Syntax Description

<i>filename</i>	Name of the file for <b>debug</b> command output. The filename is alphanumeric, case sensitive, and has a maximum of 64 characters.
<b>size</b>	(Optional) Specifies the size of the logfile in bytes.
<i>bytes</i>	(Optional) Bytes. The range is from 4096 to 10485760.

### Defaults

Default filename: syslogd\_debugs

Default file size: 10485760 bytes

### Command Modes

EXEC

Global configuration (config)

### Supported User Roles

network-admin

network-operator

### Command History

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

### Usage Guidelines

The logfile is created in the log: file system root directory.

Use the **dir log:** command to display the log files.

### Examples

This example shows how to specify a debug logfile:

```
vsg# debug logfile debug_log
```

This example shows how to revert to the default debug logfile:

```
vsg# no debug logfile debug_log
```

### Related Commands

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

<b>Command</b>	<b>Description</b>
<b>dir</b>	Displays the contents of a directory.
<b>show debug</b>	Displays the debug configuration.
<b>show debug logfile</b>	Displays the debug logfile contents.

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## debug logging

To enable **debug** command output logging, use the **debug logging** command. To disable debug logging, use the **no** form of this command.

**debug logging**

**no debug logging**

---

**Syntax Description** This command has no arguments or keywords.

---

**Defaults** Disabled

---

**Command Modes** EXEC  
Global configuration (config)

---

**SupportedUserRoles** network-admin

---

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

---



---

**Usage Guidelines** None

---

**Examples** This example shows how to enable the output logging for the **debug** command:

```
vsg# debug logging
```

This example shows how to disable the output logging for the **debug** command:

```
vsg# no debug logging
```

---

Related Commands	Command	Description
	<b>debug logfile</b>	Configures the logfile for the <b>debug</b> command output.

---



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# delete

To delete, use the **delete** command.

```
delete {bootflash: | debug: | log: | modflash: | volatile:}
```

Syntax Description	
<b>bootflash:</b>	Bootflash directory.
<b>debug:</b>	Debug directory.
<b>log:</b>	Log directory.
<b>modflash:</b>	Modflash directory.
<b>volatile:</b>	Volatile directory.

Defaults	
None	

Command Modes	
EXEC	
Global configuration (config)	

SupportedUserRoles	
network-admin	
network-operator	

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

Usage Guidelines	
None	

Examples	
This example shows how to delete:	
<pre>vsg# delete bootflash:</pre>	

Related Commands	Command	Description
	<b>copy</b>	Copies files to directories.

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## dir

To display the contents of a directory or file, use the **dir** command.

**dir** [**bootflash:** | **debug:** | **log:** | **modflash:** | **volatile:**]

Syntax Description	
<b>bootflash:</b>	(Optional) Directory or filename.
<b>debug:</b>	(Optional) Directory or filename on expansion flash.
<b>log:</b>	(Optional) Directory or filename on log flash.
<b>modflash:</b>	(Optional) Directory or filename on module flash.
<b>volatile:</b>	(Optional) Directory or filename on volatile flash.

Defaults	
	None

Command Modes	
	EXEC Global configuration (config)

SupportedUserRoles	
	network-admin network-operator

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

Usage Guidelines	
	Use the <b>pwd</b> command to identify the directory you are currently working in. Use the <b>cd</b> command to change the directory you are currently working in.

Examples	
	This example shows how to display the contents of the bootflash: directory vsg# <b>dir bootflash:</b>

Related Commands	Command	Description
	<b>cd</b>	Changes the current working directory.
	<b>pwd</b>	Displays the current working directory.

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# echo

To echo an argument back to the terminal screen, use the **echo** command.

```
echo [backslash-interpret] [text]
```

Syntax Description		
<b>-e</b>	(Optional) Interprets any character following a backslash character (\) as a formatting option.	
<b>backslash-interpret</b>	(Optional) Interprets any character following a backslash character (\) as a formatting option.	
<i>text</i>	(Optional) Text string to display. The text string is alphanumeric, case sensitive, can contain spaces, and has a maximum length of 200 characters. The text string can also contain references to CLI variables.	

**Defaults** Displays a blank line.

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use this command in a command script to display information while the script is running. [Table 1](#) lists the formatting keywords that you can insert in the text when you include the **-e** or **backslash-interpret** keyword.

**Table 1** Formatting Options for the echo Command

Formatting Option	Description
\b	Back spaces.
\c	Removes the new line character at the end of the text string.
\f	Inserts a form feed character.
\n	Inserts a new line character.
\r	Returns to the beginning of the text line.
\t	Inserts a horizontal tab character.

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**Table 1**      **Formatting Options for the echo Command (continued)**

<b>Formatting Option</b>	<b>Description</b>
<code>\v</code>	Inserts a vertical tab character.
<code>\\</code>	Displays a backslash character.
<code>\nnn</code>	Displays the corresponding ASCII octal character.

### Examples

This example shows how to display a blank line at the command prompt:

```
vsg# echo
vsg#
```

This example shows how to display a line of text at the command prompt:

```
vsg# echo Script run at $(TIMESTAMP).
Script run at 2008-08-12-23.29.24.
vsg#
```

This example shows how to use a formatting option in the text string:

```
vsg# echo backslash-interpret This is line #1. \nThis is line #2.
This is line #1.
This is line #2.
vsg#
```

### Related Commands

<b>Command</b>	<b>Description</b>
<b>run-script</b>	Runs command scripts.

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## end

To return to EXEC mode from any lower-level mode, use the **end** command.

**end**

<b>Syntax Description</b>	This command has no arguments or keywords.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	<p>This example shows how to enter VNMC policy agent mode and then how to return to EXEC mode:</p> <pre>vsg# configure VSG(config)# vnm-policy-agent VSG(config-vnm-policy-agent)# vsg(config-vnm-policy-agent)# end vsg#</pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>configure</b>	Enters configuration mode.

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## event

To clear the event counter, use the **event** command.

**event manager clear counter** *counter-name*

Syntax Description	event manager	Palces you in the event manager.
	<b>clear counter</b>	Clears the counter.
	<i>counter-name</i>	Counter name. The text string is alphanumeric, case sensitive, can contain spaces, and has a maximum length of 28 characters.

**Defaults** Displays a blank line.

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to clear the event counter:  
vsg# **event manager clear counter default**

Related Commands	Command	Description
	show event	Displays event information.

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## exit

To exit the current mode, use the **exit** command.

**exit**

<b>Syntax Description</b>	This command has no arguments or keywords.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	This example shows how to exit the current mode: <pre>vsg(config)# <b>exit</b> vsg#</pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>end</b>	Places you in EXEC mode.

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## find

To find file names beginning with a character string, use the **find** command.

**find** *filename-prefix*

<b>Syntax Description</b>	<i>filename-prefix</i>	First part or all of a filename. The filename prefix is case sensitive.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	The <b>find</b> command searches all subdirectories under the current working directory. You can use the <b>cd</b> and <b>pwd</b> commands to navigate to the starting directory.	
<b>Examples</b>	This example shows how to find a file name prefix: vsg# <b>find a</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>pwd</b>	Lists the directory you are currently in.



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## gunzip

To uncompress a compressed file, use the **gunzip** command.

**gunzip** *filename*

Syntax Description	<i>filename</i>	Name of the file.
--------------------	-----------------	-------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Usage Guidelines	The compressed filename must have the .gz extension. You do not have to enter the .gz extension as part of the filename. The Cisco NX-OS software uses Lempel-Ziv 1977 (LZ77) coding for compression.
------------------	---

Examples	This example shows how to uncompress a compressed file: vsg# <b>gunzip run_cfg.cfg</b>
----------	---

Related Commands	Command	Description
	<b>dir</b>	Displays the directory contents.
	<b>gzip</b>	Compresses a file.

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## gzip

To compress a file, use the **gzip** command.

**gzip** *filename*

<b>Syntax Description</b>	<i>filename</i>	File name.
---------------------------	-----------------	------------

<b>Defaults</b>	None	
-----------------	------	--

<b>Command Modes</b>	EXEC Global configuration (config)	
----------------------	---------------------------------------	--

<b>SupportedUserRoles</b>	network-admin network-operator	
---------------------------	-----------------------------------	--

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	After you use this command, the file is replaced with the compressed filename that has the .gz extension. The Cisco NX-OS software uses Lempel-Ziv 1977 (LZ77) coding for compression.
-------------------------	--

<b>Examples</b>	This example shows how to compress a file: <pre>vsg# gzip run_cfg.cfg</pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>dir</b>	Displays the directory contents.
	<b>gunzip</b>	Uncompresses a compressed file.

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# install

To install an image upgrade, use the **install** command.

```
install all { iso | kickstart }
```

<b>Syntax Description</b>	<b>iso</b> ISO image.				
	<b>kickstart</b> Kickstart image.				
<b>Defaults</b>	None				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to install an ISO image upgrade:</p> <pre>vsg# install all iso bootflash://smith@209.165.200.226/test</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show install</td> <td>Show the software installation impact between two images.</td> </tr> </tbody> </table>	Command	Description	show install	Show the software installation impact between two images.
Command	Description				
show install	Show the software installation impact between two images.				

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## interface

To configure an interface on the VSG, use the **interface** command in the configuration mode. To remove an interface, use the **no** form of the command.

```
interface { data | ethernet | loopback | mgmt | port-channel }
```

```
no interface { data | ethernet | loopback | mgmt | port-channel }
```

### Syntax Description

<b>data</b> <i>number</i>	Specifies data interface number. The number is 0.
<b>ethernet</b> <i>slot/port</i>	Specifies the slot and port number for the Ethernet interface.
<b>loopback</b> <i>number</i>	Specifies a virtual interface number. The range is 0 to 1023.
<b>mgmt</b> <i>number</i>	Specifies the management interface number. The number is 0.
<b>port-channel</b> <i>channel-number</i>	Specifies a port-channel interface number. The range is 0 to 1023.

### Defaults

None

### Command Modes

Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to configure an interface:

```
vsg# interface data 0
```

This example shows how to remove an interface:

```
vsg# no interface data 0
```

### Related Commands

Command	Description
<b>show interface</b>	Displays interface and IP details, including Rx and Tx packets or bytes.

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## ip

To configure IP details, use the **ip** command in the configuration mode. To revert to default settings, use the **no** form of this command.

**ip** { **access-list match-local-traffic** | **arp timeout** | **domain-list** | **domain-lookup** | **host** | **igmp** | **name-server** | **route** | **routing event-history** | **tcp** | **tftp path-mtu-discovery** }

**no ip** { **access-list match-local-traffic** | **arp timeout** | **domain-list** | **domain-lookup** | **host** | **igmp** | **name-server** | **route** | **routing event-history** | **tcp** | **tftp path-mtu-discovery** }

### Defaults

<b>access-list match-local-traffic</b>	Specifies the access-list matching for locally generated traffic.
<b>arp timeout</b> <i>seconds</i>	Specifies the arp timeout. The range is 60 to 28800.
<b>domain-list</b> <i>name</i>	Specifies an additional domain name. The maximum is 64 characters.
<b>domain-lookup</b>	Enables or disables DNS.
<b>host</b> <i>name</i>	Specifies an entry to the IP hostname table.
<b>igmp</b>	Specifies event-history buffers or snooping in IGMP global configuration mode.
<b>name-server</b>	Specifies name-server address, IPv4 or IPv6.
<b>route</b>	Specifies the route IP prefix information.
<b>routing event-history</b>	Specifies the logs for routing events.
<b>tcp</b>	Configures global TCP parameters.
<b>tftp path-mtu-discovery</b>	Enables or disables path-MTU discovery on TPC.

**Command Default** 1500

**Command Modes** Global configuration

**SupportedUserRoles** network-admin  
network-operator

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

**Usage Guidelines** None

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---

**Examples**

```
vsg# configure
vsg(config)# ip host testOne 209.165.200.231
```

---

**Related Commands**

Command	Description
<code>show ip</code>	Displays IP details.

---

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## line

To specify the line configuration, use the **line** command.

```
line { com1 | console | vty }
```

Syntax Description	com1	Specifies the COM1 port and enters the COM1 port configuration mode.
	console	Specifies the console port and enters the console port configuration mode.
	vty	Specifies the virtual terminal and enters the line configuration mode.

**Command Default** None

**Command Modes** Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to enter the COM1 port configuration mode:

```
vsg(config)# line com1
vsg(config-com1)#
```

This example shows how to enter the console port configuration mode:

```
vsg(config)# line console
vsg(config-console)#
```

This example shows how to enter the line configuration mode:

```
vsg(config)# line vty
vsg(config-line)#
```

Related Commands	Command	Description
	show line	Displays information about the COM1 port, console port configuration, and the line configuration.

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# logging

To configure logging, use the **logging** command.

```
logging { abort | commit | console | distribute | event | level | logfile | module | monitor | server
  | source-interface loopback | timestamp }
```

Syntax	Description
<b>abort</b>	Discards the logging CFS distribution session in progress without committing, and then releases the lock.
<b>commit</b>	Applies the pending configuration pertaining to the logging CFS distribution session in progress in the fabric, and then releases the lock.
<b>console</b> <i>severity-level</i>	Enables logging messages to the console session. To disable, use <b>no logging console</b> . The range is 0 to 7.
<b>distribute</b>	Enables fabric distribution using CFS distribution for logging. To disable, use <b>no logging distribute</b> .
<b>event</b>	Logs interface events. To disable, use <b>no logging event</b> .
<b>level</b>	Enables logging of messages from a named facility at a specified severity level. To disable, use <b>no logging level</b> .
<b>logfile</b> <i>name</i>	Configures the specified log file that stores system messages. To disable, use <b>no logging logfile</b> .
<b>module</b> <i>severity-level</i>	Starts logging of module messages to the log file. To disable, use <b>no logging module</b> . The range is 0 to 7.
<b>monitor</b> <i>severity-level</i>	Enables the logging of messages to the monitor (terminal line). To disable, use <b>no logging monitor</b> . The range is 0 to 7.
<b>server</b>	Designates and configures a remote server for logging system messages. To disable, use <b>no logging server</b> .
<b>source-interface loopback</b> <i>number</i>	Enables a source interface for the remote syslog server. To disable, use <b>no logging source-interface</b> . The range is 0 to 1023.
<b>timestamp</b> <i>time-type</i>	Sets the unit of time used for the system messages timestamp, in microseconds, milliseconds, or seconds. To disable, use <b>no logging timestamp</b> .

**Defaults** None

**Command Modes** Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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



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**Usage Guidelines**      None

**Examples**      This example shows how to discard logging CFS distribution session in progress:

```
vsg# configure  
vsg(config)# logging abort  
vsg(config)#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show logging</b>	Displays logging information.

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## mkdir (VSG)

To create a new directory, use the **mkdir** command.

```
mkdir {bootflash: | debug: | modflash: | volatile:}
```

Syntax Description	
<b>bootflash:</b>	Specifies bootflash: as the directory name.
<b>debug:</b>	Specifies debug: as the directory name.
<b>modflash:</b>	Specifies modflash: as the directory name.
<b>volatile:</b>	Specifies volatile: as the directory name.

Defaults	
None	

Command Modes	
EXEC	
Global configuration (config)	

SupportedUserRoles	
network-admin	

Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
	4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines	
None	

Examples	
This example shows how to create the bootflash: directory:	
<pre>vsg# mkdir bootflash:</pre>	

Related Commands	Command	Description
	<b>cd</b>	Changes the current working directory.
	<b>dir</b>	Displays the directory contents.
	<b>pwd</b>	Displays the name of the current working directory.

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## ntp sync-retry (VSG)

To retry synchronization with configured servers, use the **ntp sync-retry** command. To stop this process, use the **no** version of this command.

**ntp sync-retry**

**no ntp sync-retry**

**Syntax Description** This command has no arguments or keywords.

**Defaults** Enabled

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin

Command History	Release	Modification
	4.2(1)VSG1(1)	This command was introduced for the VSG.

**Usage Guidelines** None

**Examples** This example shows how to enable the NTP synchronization retry:

```
vsg# ntp sync-retry
```

This example shows how to disable the NTP synchronization retry:

```
vsg# no ntp sync-retry
```

Related Commands	Command	Description
	show clock	Displays the time and date.

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## password strength-check

To enable password strength checking, use the **password strength-check** command. To disable the password strength checking, use the **no** form of this command.

**password strength-check**

**no password strength-check**

**Syntax Description** This command has no arguments or keywords.

**Defaults** This feature is enabled by default.

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to enable the checking of password strength:

```
vsg# config t
vsg(config)# password strength-check
vsg(config)#
```

This example shows how to disable the checking of password strength:

```
vsg# config t
vsg(config)# no password strength-check
vsg(config)#
```

Related Commands	Command	Description
	<b>show password strength-check</b>	Displays the configuration for checking password strength.
	<b>username</b>	Creates a user account.
	<b>role name</b>	Names a user role and places you in role configuration mode for that role.

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## pwd

To view the current directory, use the **pwd** command.

**pwd**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
	4.2(1)VSG1(1)	This command was introduced for the VSG.

**Usage Guidelines** None

**Examples** This example shows how to view the current directory:

```
vsg# pwd
bootflash:
vsg#
```

Related Commands	Command	Description
	<b>cd</b>	Changes the current directory.

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## role

To configure a user role, use the **role** command. To delete a user role, use the **no** form of the command.

```
role { feature-group feature-group-name | name { name | network-observer } }
```

```
no role { feature-group name | [name name | network-observer] }
```

### Syntax Description

<b>feature-group</b> <i>name</i>	Specifies a role feature-group. The name can be any alphanumeric string up to 32 characters.
<b>name</b> <i>name</i>	Specifies the role name. The name can be any alphanumeric string up to 16 characters.
<b>network-observer</b>	Specifies the user role.

### Defaults

This feature is enabled by default.

### Command Modes

Global configuration

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to configure a user role for a feature group:

```
vsg# configure
vsg(config)# role feature-group name abc
vsg(config-role-featuregrp)#
```

### Related Commands

Command	Description
<b>show role</b>	Displays the role configuration.
<b>role name</b>	Names a user role and places you in role configuration mode for that role.

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## reload

To reboot both the primary and secondary VSG in a redundant pair, use the **reload** command.

**reload**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
	4.2(1)VSG1(1)	This command was introduced for the VSG.

**Usage Guidelines** To reboot only one of the VSGs in a redundant pair, use the **reload module** command instead.

Before reloading, use the **copy running-configuration to startup-configuration** command to preserve any configuration changes made since the previous reboot or restart.

After reloading it, you must manually restart the VSG.

**Examples** This example shows how to reload both the primary and secondary VSG:

```
vsg(config)# reload
!!!WARNING! there is unsaved configuration!!!
This command will reboot the system. (y/n)? [n] y
2010 Dec 20 11:33:35 bl-vsg %PLATFORM-2-PFM_SYSTEM_RESET: Manual system restart from
Command Line Interface
```

Related Commands	Command	Description
	<b>reload module</b>	Reloads the specified VSG (1 or 2) in a redundant pair.

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## reload module

To reload one of the VSGs in a redundant pair, use the **reload module** command.

**reload module** *module* [**force-dnld**]

Syntax Description		
	<i>module</i>	The module number: <ul style="list-style-type: none"> <li>• 1 (primary VSG)</li> <li>• 2 (secondary VSG)</li> </ul>
	<b>force-dnld</b>	(Optional) Reboots the specified module to force NetBoot and image download.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
	4.2(1)VSG1(1)	This command was introduced for the VSG.

Usage Guidelines	<p>To reboot both the VSGs in a redundant pair, use the <b>reload</b> command instead.</p> <p>Before reloading, use the <b>copy running-configuration to startup-configuration</b> command to preserve any configuration changes made since the previous reboot or restart.</p> <p>After reloading it, you must manually restart the VSG.</p>
------------------	---

Examples	<p>This example shows how to reload VSG 2, the secondary VSG in a redundant pair:</p> <pre>vsg# reload module 2 !!!WARNING! there is unsaved configuration!!! This command will reboot the system. (y/n)? [n] y 2010 Dec 20 11:33:35 bl-vsg %PLATFORM-2-PFM_SYSTEM_RESET: Manual system restart from Command Line Interface</pre>
----------	---



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Related Commands	Command	Description
	<b>show version</b>	Displays information about the software version.
	<b>reload</b>	Reboots both the primary and secondary VSG.

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## restart

To manually restart a component, use the **restart** command. To disable manual restart, use the **no** version of this command.

**restart**

**no restart**

**Syntax Description** There are no keywords or arguments for this command.

**Command Default** Disabled

**Command Modes** EXEC

**SupportedUserRoles** network-admin

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

**Usage Guidelines** Do not use this command unless you are absolutely certain that there is no one else using the system.

**Examples** This example shows how to restart:  
vsg# **restart**

Related Commands	Command	Description
	<b>reload</b>	Reboots the entire device.

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## rmdir (VSG)

To remove a directory, use the **rmdir** command.

```
rmdir { bootflash: | debug: | modflash: | volatile: }
```

Syntax Description	bootflash:	Deletes the bootflash: directory.
	<b>debug:</b>	Deletes the debug: directory.
	<b>modflash:</b>	Deletes the modflash: directory.
	<b>volatile:</b>	Deletes the volatile: directory.

**Defaults** Removes the directory from the current working directory.

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin

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

**Usage Guidelines** None

**Examples** This example shows how to remove the bootflash directory:

```
vsg# rmdir bootflash:
```

Related Commands	Command	Description
	<b>cd</b>	Changes the current working directory.
	<b>dir</b>	Displays the directory contents.
	<b>pwd</b>	Displays the name of the current working directory.

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## run-script (VSG)

To run a command script that is saved in a file, use the **run-script** command.

```
run-script [bootflash: [> [bootflash: | ftp: | scp: | sftp: | tftp: | volatile:] | >> [bootflash: | ftp: |
scp: | sftp: | tftp: | volatile:] | | [cut | diff | egrep | grep | head | human | last | less | no-more |
sed | sort | sscp | tr | uniq | vsh | wc | xml | begin | count | end | exclude | include] | volatile:
[> [bootflash: | ftp: | scp: | sftp: | tftp: | volatile:] | >> [bootflash: | ftp: | scp: | sftp: | tftp: |
volatile:] | | [cut | diff | egrep | grep | head | human | last | less | no-more | sed | sort | sscp | tr
| uniq | vsh | wc | xml | begin | count | end | exclude | include] ] [filename]
```

### Syntax Description

<b>bootflash:</b>	Indicates that the file containing the command script is located in the bootflash file system.
<b>volatile:</b>	Indicates that the file containing the command script is located in the volatile file system.
<i>filename</i>	The name of the file containing the command script. The name is case sensitive.
>	Redirects the output to a file.
>>	Redirects the output to a file in append mode.
	Pipes the command output to a filter.
<b>bootflash:</b>	Designates the destination filesystem path; in this case, the bootflash: directory.
<b>ftp:</b>	Designates the destination filesystem path; in this case, the ftp: directory.
<b>scp:</b>	Designates the destination filesystem path; in this case, the scp: directory.
<b>sftp:</b>	Designates the destination filesystem path; in this case, the sftp: directory.
<b>tftp:</b>	Designates the destination filesystem path; in this case, the tftp: directory.
<b>volatile:</b>	Designates the destination filesystem path; in this case, the volatile: directory.
<b>cut</b>	Prints selected parts of lines.
<b>diff</b>	Shows difference between current and previous invocation (creates temp files—remove them with the <b>diff-clean</b> command and do not use it on commands with big outputs, such as <b>show tech</b> )
<b>egrep</b>	Prints lines matching a pattern.
<b>grep</b>	Prints lines matching a pattern.
<b>head</b>	Displays only the first lines.
<b>human</b>	Provides command output in human format (if permanently set to XML, otherwise it turns on XML for the next command).
<b>last</b>	Displays only the last lines.
<b>less</b>	Designates filter for paging.
<b>no-more</b>	Turns off the pagination for command output.
<b>sed</b>	Enables the stream editor (SED).
<b>sort</b>	Enables the stream sorter.
<b>sscp</b>	Enables the stream secure copy (SSCP).
<b>tr</b>	Translates, squeezes, and/or deletes characters.
<b>uniq</b>	Discards all but one of successive identical lines.
<b>vsh</b>	Enables the shell that understands CLI commands.

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<b>wc</b>	Enables word count, line count, and character count.
<b>xml</b>	Enables output in XML format (according to .xsd definitions).
<b>begin</b>	Begins with the line that matches the variable included after the command keyword.
<b>count</b>	Enables count of the number of lines.
<b>end</b>	Ends display with the line that matches the string input after the command keyword.
<b>exclude</b>	Excludes the lines that match the string input after the command keyword.
<b>include</b>	Includes the lines that match the string input after the command keyword.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to run a command script that is saved in a file called Sample:

```
vsg(config)# run-script volatile:Sample
```

Related Commands	Command	Description
	<b>cd</b>	Changes the current working directory.
	<b>copy</b>	Copies files.
	<b>dir</b>	Displays the contents of the working directory.
	<b>pwd</b>	Displays the name of the present working directory (pwd).

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## send

To send a message to an open session, use the **send** command.

```
send {message | session device message}
```

Syntax Description		
	<i>message</i>	Message.
	<b>session</b>	Specifies a specific session.
	<i>device</i>	Device type.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	None
------------------	------

Examples	This example shows how to send a message to an open session:  vsg# <b>send session sessionOne testing</b> vsg#
----------	---

Related Commands	Command	Description
	<b>show banner</b>	Displays a banner.

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## setup

To use the Basic System Configuration Dialog for creating or modifying a configuration file, use the **setup** command.

**setup**

### Syntax Description

This command has no arguments or keywords, but the Basic System Configuration Dialog prompts you for complete setup information (see the example below).

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### SupportedUserRoles

network-admin

### Command History

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

### Usage Guidelines

The Basic System Configuration Dialog assumes the factory defaults. Keep this in mind when using it to modify an existing configuration.

All changes made to your configuration are summarized for you at the completion of the setup sequence with an option to save the changes or not.

You can exit the setup sequence at any point by pressing Ctrl-C.

### Examples

This example shows how to use the setup command to create or modify a basic system configuration:

```
vsg# setup
```

```
Enter the domain id<1-4095>: 400
```

```
Enter HA role[standalone/primary/secondary]: standalone
```

```
[#####] 100%
```

```
---- Basic System Configuration Dialog ----
```

```
This setup utility will guide you through the basic configuration of
the system. Setup configures only enough connectivity for management
of the system.
```

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\*Note: setup is mainly used for configuring the system initially, when no configuration is present. So setup always assumes system defaults and not the current system configuration values.

Press Enter at anytime to skip a dialog. Use ctrl-c at anytime to skip the remaining dialogs.

Would you like to enter the basic configuration dialog (yes/no): y

Create another login account (yes/no) [n]: n

Configure read-only SNMP community string (yes/no) [n]: n

Configure read-write SNMP community string (yes/no) [n]: n

Enter the vsg name : vsg

Continue with Out-of-band (mgmt0) management configuration? (yes/no) [y]:

Mgmt0 IPv4 address :

Configure the default gateway? (yes/no) [y]: n

Configure advanced IP options? (yes/no) [n]:

Enable the telnet service? (yes/no) [y]:

Enable the ssh service? (yes/no) [n]:

Configure the ntp server? (yes/no) [n]:

Configure vem feature level? (yes/no) [n]:

Configure svcs domain parameters? (yes/no) [y]:

Enter SVS Control mode (L2 / L3) : L2

Invalid SVS Control Mode

Enter SVS Control mode (L2 / L3) : L2

Enter control vlan <1-3967, 4048-4093> : 400

Enter packet vlan <1-3967, 4048-4093> : 405

The following configuration will be applied:

```
vsgname vsg
telnet server enable
no ssh server enable
svs-domain
  svcs mode L2
  control vlan 400
  packet vlan 405
  domain id 400
vlan 400
vlan 405
```

Would you like to edit the configuration? (yes/no) [n]:

Use this configuration and save it? (yes/no) [y]: n

vsgvsgvsg#

**Related Commands**



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Command	Description
<code>show running-config</code>	Displays the running configuration.

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# sleep

To set a sleep time, use the **sleep** command.

**sleep** *time*

Syntax Description	<i>time</i>
	Sleep time, in seconds. The range is from 0 to 2147483647.

Defaults	Sleep time is not set.
----------	------------------------

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Usage Guidelines	When you set <i>time</i> to 0, sleep is disabled.
------------------	---

Examples	This example shows how to set a sleep time:
----------	---

```
vsg# sleep 100
vsg#
```

This example shows how to disable sleep:

```
vsg# sleep 0
vsg#
```

Related Commands	Command	Description
	reload	Reboots VSG.

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## snmp-server

To configure the Simple Network Management Protocol (SNMP) values, use the **snmp-server** command. To revert to default, use the **no** form of this command.

```
snmp-server { aaa-user cache-timeout | community | contact | context | counter | enable traps |
globalEnforcePriv | host | location | mib | protocol | source-interface | tcp-session auth |
user }
```

```
no snmp-server { aaa-user cache-timeout | community | contact | context | counter | enable
traps | globalEnforcePriv | host | location | mib | protocol | source-interface | tcp-session
auth | user }
```

Syntax Description		
<b>aaa-user</b>		Configures SNMP time-out value for synchronized AAA users. To revert to default, use <b>no snmp-server aaa-user cache-timeout</b> . The range is 1 to 86400.
<b>cache-timeout</b>	<i>seconds</i>	
<b>community</b>	<i>word</i>	Create an SNMP community name and assign access privileges for the community. To remove the community or its access privileges, use <b>no snmp-server community</b> . The maximum number of characters is 32.
<b>contact</b>		Configure the sysContact, which is the SNMP contact name. To remove or modify the sysContact, use <b>no snmp-server contact</b> .
<b>context</b>	<i>word</i>	Configures SNMP context name to logical network entity mapping. To remove the context, use <b>no snmp-server context</b> . The maximum number of characters is 32.
<b>counter</b>		Enables the SNMP cache counter and sets the timeout. To remove the counter, use <b>no snmp-server counter</b> .
<b>enable traps</b>		Enables SNMP notifications for traps of module notifications. To disable, use <b>no snmp-server enable traps</b> .
<b>globalEnforcePriv</b>		Globally enforces privacy for all SNMP users. To disable, use <b>no snmp-server globalEnforcePriv</b> .
<b>host</b>		Configures a host receiver for SNMPv1 or SNMPv2c traps. To remove the host, use <b>no snmp-server host</b> .
<b>location</b>	<i>name</i>	Configures the sysLocation, which is the SNMP location name. To remove the sysLocation, use <b>no snmp-server location</b> . The maximum number of characters is 32.
<b>mib</b>		Configures the SNMP mib community-map. To remove, use <b>no snmp-server mib community-map</b> . The maximum number of characters is 32.
<b>community-map</b>	<i>name</i>	
<b>protocol</b>		Enables SNMP protocol operations. To disable, use <b>no snmp-server protocol</b> .
<b>source-interface</b>		Configure the SNMP source interface through which notifications are sent. To remove the notifications, use <b>no snmp-server source-interface</b> .
<b>tcp-session auth</b>		Enables a one-time authentication for SNMP over a TCP session. To disable authentication, use <b>no snmp-server tcp-session auth</b> .
<b>user</b>	<i>name</i>	Defines a user who can access the SNMP engine. To deny access, use <b>no snmp-server user</b> . The maximum number of characters is 32.

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**Command Default** None

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to configure the AAA user synchronization timeout value:

```
vsg# configure
vsg(config)# snmp-server aaa-user cache-timeout 6000
vsg(config)#
```

Related Commands	Command	Description
	<b>show snmp</b>	Displays information about SNMP.

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## ssh

To create a Secure Shell (SSH) session, use the **ssh** command.

```
ssh {hostname| connect | name}
```

Syntax Description	hostname	Hostname or user@hostname for the SSH session. The hostname is not case sensitive. The maximum number of characters is 64.
	<b>connect</b>	Connects to a named remote host.
	<b>name</b>	Specifies name of SSH connection.

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

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

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Usage Guidelines	NX-OS software supports SSH version 2.
------------------	--

Examples	This example shows how to start an SSH session:
----------	---

```
vsg# ssh 10.10.1.1 vrf management
The authenticity of host '10.10.1.1 (10.10.1.1)' can't be established.
RSA key fingerprint is 9b:d9:09:97:f6:40:76:89:05:15:42:6b:12:48:0f:d6.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.10.1.1' (RSA) to the list of known hosts.
User Access Verification
Password:
```

Related Commands	Command	Description
	<b>clear ssh session</b>	Clears SSH sessions.
	<b>ssh server enable</b>	Enables the SSH server.

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## ssh key

To generate an SSH session key with a specific security configuration, use the **ssh key** command.

```
ssh key {dsa | rsa}
```

Syntax Description	Parameter	Description
	<b>dsa</b>	Generates DSA security keys. There is an option to force the generation of keys, even if the previous ones are present.
	<b>rsa number</b>	Generates RSA security keys at a specified level of bits. The range is 768 to 2048.

**Defaults** None

**Command Modes** Global configuration

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** NX-OS software supports SSH version 2.

**Examples** This example shows how to generate an SSH session key:

```
vsg# configure
vsg(config)# ssh key rsa 770
```

Related Commands	Command	Description
	<b>clear ssh session</b>	Clears SSH sessions.
	<b>ssh server enable</b>	Enables the SSH server.

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## system clis

To generate event history, use the **system clis** command. To disable, use the **no** form of the command.

```
system clis event-history { client | errors | ha | nvdb | parser }
```

```
no system clis event-history { client | errors | ha | nvdb | parser }
```

### Syntax Description

<b>event-history</b>	Generate event history logs for CLIs.
<b>client</b>	Generates a client interaction event history log.
<b>errors</b>	Generates an error event history log.
<b>ha</b>	Generates an HA event history log.
<b>nvdb</b>	Generates an NVDB and PSS event history log.
<b>parser</b>	Generates a parser event history event log.

### Command Default

None

### Command Modes

Global configuration (config)

### SupportedUserRoles

network-administrator  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to generate an error event history log:

```
vsg# system clis event-history errors
```

### Related Commands

Command	Description
<b>show system clis event-history</b>	Displays the event history of the Cli servers.

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## system cores

To copy cores to a destination, use the **system cores** command. To disable, use the **no** form of the command.

```
system cores tftp://<server>@<ip-address>
```

```
no system cores tftp://<server>@<ip-address>
```

Syntax Description	Parameter	Description
	<b>tftp:</b>	Specifies TFTP protocol.
	<i>server</i>	Destination server.
	<i>ip-address</i>	Destination IP address.

Command Default	Default Value
	None

Command Modes	Configuration Mode
	Global configuration (config)

Supported User Roles	User Roles
	network-admin network-operator

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

Usage Guidelines	Guidelines
	None

Examples	Example
	This example shows how to copy cores to a destination: vsg# <b>system cores tftp://jjones@209.165.200.229</b>

Related Commands	Command	Description
	<b>show system cores</b>	Displays core transfer option.



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## system default switchport

To return to system-level default values, use the **system default** command. To disable, use the **no** form of the command.

**system default switchport [shutdown]**

**no system default switchport [shutdown]**

<b>Syntax Description</b>	<b>shutdown</b> Sets the admin state.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to return to system-level default values:</p> <pre>vsg# system default switchport shutdown</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show system resources</td> <td>Displays system resources.</td> </tr> </tbody> </table>	Command	Description	show system resources	Displays system resources.
Command	Description				
show system resources	Displays system resources.				

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## system hap-reset

To reset local or remote supervisors after an HA failure, use the **system hap-reset** command. To disable, use the **no** form of the command.

**system hap-reset**

**system no hap-reset**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to switch over to the standby supervisor:

```
vsg# system hap-reset
```

Related Commands	Command	Description
	show system redundancy	Displays the system redundancy status.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## system health

To check system health, use the **system health** command.

### system health check bootflash

<b>Syntax Description</b>	<b>check</b>	Runs a consistency check on the compact flash.
	<b>bootflash</b>	Checks the internal bootflash.
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC	
<b>Supported User Roles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	None	
<b>Examples</b>	This example shows how to check the system health: vsg# <b>system health check bootflash</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show system resources</b>	Displays system resources.

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## system heartbeat

To enable the system heartbeat, use the **system heartbeat** command. To disable system heartbeat, use the **no** form of the command.

**system heartbeat**

**system no heartbeat**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to enable the system heartbeat:

```
vsg# system heartbeat
```

Related Commands	Command	Description
	<b>system health</b>	Checks the system health status.

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## system internal

To generate debug snapshots for services, use the **system internal** command.

**system internal snapshot service** *service-name*

Syntax Description	Parameter	Description
	<b>snapshot</b>	Generates debug snapshots.
	<b>service</b>	Generates debug snapshot for a service.
	<i>service-name</i>	Service name.

**Command Default** None

**Command Modes** EXEC

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to generate debug snapshots for services:

```
vsg# system internal snapshot service
```

Related Commands	Command	Description
	<b>show system internal</b>	Displays all internal commands.

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## system jumbomtu

To set MTUs to jumbo, use the **system jumbomtu** command.

```
system jumbomtu 9000
```

<b>Syntax Description</b>	<b>9000</b>	MTU size.
---------------------------	-------------	-----------

<b>Command Default</b>	None
------------------------	------

<b>Command Modes</b>	Global configuration (config)
----------------------	-------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	This example shows how to set MTUs to jumbo: <pre>vsg# system jumbomtu 9000</pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show system resources</b>	Displays the system resource details.

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## system memlog

To generate a memory log in bootflash, use the **system memlog** command.

**system memlog**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to generate a memory log in bootflash:

```
vsg# system memlog
```

Related Commands	Command	Description
	<b>show system memory-alerts-log</b>	Displays a detailed log for memory alerts.
	<b>show system memory-status</b>	Displays memory status information

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## system memory-thresholds

To set system memory thresholds, use the **system memory-thresholds** command.

**system memory-thresholds** { **minor** *minor-memory-threshold* **severe** *severe memory-threshold*  
**critical** *critical-memory-threshold* | **threshold** **critical** **no-process-kill** }

Syntax Description		
<b>minor</b>		Sets the minor memory threshold.
<i>minor-memory-threshold</i>		Enter the minor threshold as a percentage of memory. The range is 50 to 100.
<b>severe</b>		Sets the severe memory threshold.
<i>severe memory-threshold</i>		Enter the severe threshold as a percentage of memory. The range is 50 to 100.
<b>critical</b>		Sets the critical memory threshold.
<i>critical-memory-threshold</i>		Enter the critical threshold as a percentage of memory. The range is 50 to 100.
<b>threshold</b>		Sets threshold behavior.
<b>critical</b>		Sets the critical memory threshold.
<b>no-process-kill</b>		Enables do not kill processes when out of memory.

**Command Default** None

**Command Modes** Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to set memory-threshold:

```
vsg# system memory-thresholds minor 60
```

Related Commands	Command	Description
	<b>show system resources</b>	Displays the system resources.



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## system pss

To shrink PSS files, use the **system pss** command.

**system pss shrink**

<b>Syntax Description</b>	<b>shrink</b>	Shrinks the PSS files.
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	None	
<b>Examples</b>	This example shows how to shrink PSS files: vsg# <b>system shrink pss</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show system pss</b>	Displays the PSS shrink status.

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## system redundancy

To set a system redundancy policy, use the **system redundancy** command.

```
system redundancy role {primary | secondary | standalone}
```

Syntax Description	role	Sets the redundancy role.
	<b>primary</b>	Specifies the primary redundant VSG.
	<b>secondary</b>	Specifies the secondary redundant VSG.
	<b>standalone</b>	Specifies no redundant VSG.

<b>Command Default</b>	None
------------------------	------

<b>Command Modes</b>	EXEC
----------------------	------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

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

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	This example shows how to set the redundancy role: <pre>vsg# system redundancy role primary</pre>
-----------------	--

Related Commands	Command	Description
	<b>show system redundancy</b>	Displays the system redundancy status.

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## system standby

To enable a system standby manual boot, use the **system standby** command. To disable a system standby manual boot, use the **no** form of the command.

**system standby manual-boot**

**no system standby manual-boot**

<b>Syntax Description</b>	<b>manual-boot</b> Performs manual boot.				
<b>Command Default</b>	None				
<b>Command Modes</b>	EXEC				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to set a system standby manual boot:</p> <pre>vsg# <b>system standby manual-boot</b></pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>show system standby</b></td> <td>Displays the system standby manual boot option.</td> </tr> </tbody> </table>	Command	Description	<b>show system standby</b>	Displays the system standby manual boot option.
Command	Description				
<b>show system standby</b>	Displays the system standby manual boot option.				

**Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).**

## system startup-config

To initialize or unlock the system startup configuration, use the **system startup-config** command.

```
system startup-config {init | unlock lock id}
```

Syntax Description	init	Initilizes the startup configuration.
	<b>unlock</b>	Unlocks the startup configuration.
	<i>lock id</i>	Lock identification number. The range is 0 to 65536.

**Command Default** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to unlock the system startup configuration:

```
vsg# system startup-config unlock 1324
```

Related Commands	Command	Description
	<b>show startup-config</b>	Displays startup system information.

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## system statistics

To reset system statistics, use the **system statistics** command.

```
system statistics reset
```

<b>Syntax Description</b>	This command has no arguments or keywords.
---------------------------	--

<b>Command Default</b>	None
------------------------	------

<b>Command Modes</b>	EXEC
----------------------	------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	None
-------------------------	------

<b>Examples</b>	This example shows how to reset the system statistics configuration: <pre>vsg# system statistics reset</pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show system redundancy</b>	Displays the system redundancy status.

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## system switchover

To switch over to the standby supervisor in EXEC mode, use the **system switchover** command.

**system switchover**

To configure system switchover in configuration mode, use the **system switchover** command.

**system switchover {ha | warm}**

Syntax Description	ha	Enables high availability.
	warm	Enables warm switchover.

**Command Default** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to switch over to the standby supervisor:  
vsg# **system switchover**

Related Commands	Command	Description
	show redundancy	Displays the system redundancy status.

[Send document comments to vsg-docfeedback@cisco.com.](mailto:vsg-docfeedback@cisco.com)

## system trace

To configure the system trace level, use the **system trace** command.

```
system trace {mask}
```

<b>Syntax Description</b>	<i>mask</i>	Specifies the mask.
<b>Command Default</b>	None	
<b>Command Modes</b>	Global configuration (config)	
<b>SupportedUserRoles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	None	
<b>Examples</b>	This example shows how to configure the system trace level: vsg# <b>system trace</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>system default</b>	Configures system-level default values.

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## system watchdog kdgb

To enable watchdog, use the **system watchdog** command. To disable watchdog, use the **no** form of the command.

**system watchdog kdgb**

**no system watchdog kdgb**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to enable watchdog:

```
vsg# system watchdog
```

Related Commands	Command	Description
	system default	Configures system-level default values.



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## tail

To display the end of a file, use the **tail** command.

```
tail { bootflash: | debug: | modflash: | volatile: }
```

Syntax Description	
<b>bootflash:</b>	Displays the bootflash file.
<b>debug:</b>	Displays the debug file.
<b>modflash:</b>	Displays the modflash file.
<b>volatile:</b>	Displays the volatile file.

**Defaults** 10 lines.

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to display the last 10 lines of a file:

```
vsg# tail bootflash:startup.cfg
ip arp inspection filter marp vlan 9
ip dhcp snooping vlan 13
ip arp inspection vlan 13
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
logging level dhcp_snoop 6
logging level eth_port_channel 6
```

This example shows how to display the last 20 lines of a file:

```
vsg# tail bootflash:startup.cfg 20
area 99 virtual-link 1.2.3.4
router rip Enterprise
router rip foo
address-family ipv4 unicast
```

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

```
router bgp 33.33
event manager applet sctest
monitor session 1
monitor session 2
ip dhcp snooping vlan 1
ip arp inspection vlan 1
ip arp inspection filter marp vlan 9
ip dhcp snooping vlan 13
ip arp inspection vlan 13
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
logging level dhcp_snoop 6
logging level eth_port_channel 6
```

#### Related Commands

Command	Description
<b>cd</b>	Changes the current working directory.
<b>copy</b>	Copies files.
<b>dir</b>	Displays the directory contents.
<b>pwd</b>	Displays the name of the current working directory.

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## telnet

To create a Telnet session, use the **telnet** command.

```
telnet { ipv4-address | hostname } [port-number | vrf vrf-name]
```

Syntax Description		
<i>ipv4-address</i>		IPv4 address of the remote device.
<i>hostname</i>		Hostname of the remote device. The name is alphanumeric, case sensitive, and has a maximum of 64 characters.
<i>port-number</i>		(Optional) Port number for the Telnet session. The range is 1 to 65535.
<b>vrf</b> <i>vrf-name</i>		(Optional) The virtual routing and forwarding (VRF) name used for the Telnet session. The name is case sensitive.

Defaults	
	Port 23
	Default VRF

Command Modes	
	EXEC
	Global configuration (config)

SupportedUserRoles	
	network-admin
	network-operator

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

Usage Guidelines	
	None

Examples	
	This example shows how to start a Telnet session:
	<pre>vsg# <b>telnet 10.10.1.1 vrf management</b></pre>

Related Commands	Command	Description
	<b>clear line</b>	Clears Telnet sessions.
	<b>telnet server enable</b>	Enables the Telnet server.

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## terminal alias

To displays aliases, use the **terminal alias** command. To disable terminal alias, use the **no** form of the command.

**terminal alias** *word persist*

**no terminal alias** *word persist*

Syntax Description	word	Name of the alias.
	<i>persist</i>	Saves the configuration.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	None
------------------	------

Examples	This example shows how to displays the alias: vsg# <b>terminal alias word</b>
----------	--

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.

*Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).*

## terminal color

To enable colorization of the command prompt, command line and output, use the **terminal color** command. To disable terminal color, use the **no** form of the command.

**terminal color** *evening persist*

**no terminal color** *evening persist*

Syntax	Description
<i>evening</i>	Changes the screen background to black.
<i>persist</i>	Saves the configuration.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to set the colorization of the command line:

```
vsg# terminal color evening persist
```

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.

***Send document comments to [vsg-docfeedback@cisco.com](mailto:vsg-docfeedback@cisco.com).***

## terminal dont-ask

To turn off `Are you sure?` questions when a command is executed, use the **terminal dont-ask** command. To disable terminal don't ask, use the **no** form of the command.

**terminal dont-ask** *persist*

**no terminal dont-ask** *persist*

<b>Syntax Description</b>	<i>persist</i> Saves the configuration.				
<b>Defaults</b>	None				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to use the command:</p> <pre>vsg# terminal dont-ask persist</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show terminal</td> <td>Displays the terminal configuration.</td> </tr> </tbody> </table>	Command	Description	show terminal	Displays the terminal configuration.
Command	Description				
show terminal	Displays the terminal configuration.				

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## terminal edit-mode

To set the edit mode to vi, use the **terminal edit-mode** command. To return the edit mode to emacs, use the **no** form of the command.

**terminal edit-mode vi**

**no terminal edit-mode vi**

<b>Syntax Description</b>	<b>vi</b>	Sets the edit mode to vi.
<b>Defaults</b>	emacs	
<b>Command Modes</b>	EXEC	Global configuration (config)
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	None	
<b>Examples</b>	This example shows how to set the command line edition keys: vsg# <b>terminal edit-mode vi</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	show terminal	Displays the terminal configuration.

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## terminal event-manager

To bypass the CLI event manager, use the **terminal event-manager** command.

**terminal event-manager bypass**

<b>Syntax Description</b>	<b>bypass</b> Bypasses the CLI event manager.				
<b>Defaults</b>	None				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to bypass the CLI event manager:</p> <pre>vsg# terminal event-manager bypass</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>show terminal</b></td> <td>Displays the terminal configuration.</td> </tr> </tbody> </table>	Command	Description	<b>show terminal</b>	Displays the terminal configuration.
Command	Description				
<b>show terminal</b>	Displays the terminal configuration.				



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## terminal history

To disable the recall of EXEC mode commands when in configuration mode, use the **terminal history** command. To enable recall, use the **no** form of this command.

**terminal history no-exec-in-config**

**no terminal history no-exec-in-config**

<b>Syntax Description</b>	<b>no-exec-in-config</b> Disables the recall of EXEC mode commands when in configuration mode.				
<b>Defaults</b>	None				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to set terminal history properties:</p> <pre>vsg# terminal history no-exec-in-config</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show terminal</td> <td>Displays the terminal configuration.</td> </tr> </tbody> </table>	Command	Description	show terminal	Displays the terminal configuration.
Command	Description				
show terminal	Displays the terminal configuration.				

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## terminal length

To set the number of lines that appear on the terminal screen, use the **terminal length** command.

**terminal length** *number*

<b>Syntax Description</b>	<i>number</i>	Number of lines. The range of valid values is 0 to 511.
<b>Defaults</b>	28 lines	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	Set <i>number</i> to 0 to disable pausing.	
<b>Examples</b>	This example shows how to set the number of lines that appear on the screen: vsg# <b>terminal length 60</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show terminal</b>	Displays the terminal configuration.

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## terminal log-all

To log all commands including the show commands, use the **terminal log-all** command.

### **terminal log-all**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to log all commands:  
vsg# **terminal log-all**

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

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## terminal monitor

To copy Syslog output to the current terminal line, use the **terminal monitor** command.

### **terminal monitor**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to copy Syslog output to the current terminal line:  
vsg# **terminal monitor**

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.

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## terminal output

To display show command output in XML, use the **terminal output** command. To display show command output in text, use the **no** form of this command.

**terminal output xml**

**no terminal output xml**

### Syntax Description

<b>xml</b>	Displays show command output in XML.
------------	--------------------------------------

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### SupportedUserRoles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to display show command output in XML:  
vsg# **terminal output xml**

### Related Commands

Command	Description
<b>show terminal</b>	Displays the terminal configuration.

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## terminal redirection-mode

To set the redirection mode, use the **terminal redirection-mode** command.

```
terminal redirection-mode {ascii | zipped}
```

### Syntax Description

<b>ascii</b>	Sets the redirection mode to ASCII.
<b>zipped</b>	Sets the redirection mode to Zipped.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to set the redirection mode to ASCII:

```
vsg# terminal redirection-mode ascii
```

### Related Commands

Command	Description
<b>show terminal</b>	Displays the terminal configuration.

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## terminal session-timeout

To set the terminal session timeout, use the **terminal session-timeout** command.

**terminal session-timeout** *time*

<b>Syntax Description</b>	<i>time</i>	Timeout time, in seconds. The range of valid values is 0 to 525600.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	Set <i>time</i> to 0 to disable terminal session timeout.	
<b>Examples</b>	This example shows how to set terminal session timeout: vsg# <b>terminal session-timeout 100</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show terminal</b>	Displays the terminal configuration.

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## terminal terminal-type

To specify the terminal type, use the **terminal terminal-type** command.

**terminal terminal-type** *type*

<b>Syntax Description</b>	<i>type</i>	Terminal type.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.
<b>Usage Guidelines</b>	None	
<b>Examples</b>	This example shows how to specify the terminal type:  vsg# <b>terminal terminal-type vt100</b>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show terminal</b>	Displays the terminal configuration.



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## terminal tree-update

To update the main parse tree, use the **terminal tree-update** command.

### **terminal tree-update**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to update the main parse tree:  
vsg# **terminal tree-update**

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.

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## terminal verify-only

To verify commands, use the **terminal verify-only** command.

**terminal verify-only** *username word*

### Syntax Description

<b>username</b>	Specifies the username for AAA authorization.
<i>word</i>	User name.

### Defaults

None

### Command Modes

EXEC  
Global configuration (config)

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

None

### Examples

This example shows how to verify commands:  
vsg# **terminal verify-only**

### Related Commands

Command	Description
<b>show terminal</b>	Displays the terminal configuration.

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## terminal width

To set terminal width, use the **terminal width** command.

**terminal width** *width*

<b>Syntax Description</b>	<i>width</i> Sets the number of characters on a single line. The range of valid values is 24 to 511.				
<b>Defaults</b>	102 columns.				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	This example shows how to set terminal width: vsg# <b>terminal width 60</b>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>show terminal</b></td> <td>Displays the terminal configuration.</td> </tr> </tbody> </table>	Command	Description	<b>show terminal</b>	Displays the terminal configuration.
Command	Description				
<b>show terminal</b>	Displays the terminal configuration.				

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## test policy-engine

To test the policy engine on a RADIUS server or in a server group, use the **test policy-engine** command.

```
test policy-engine {simulate-pe-req | simulate-zone-req}
```

Syntax Description		
	<b>simulate-pe-req</b>	Simulate policy engine lookup.
	<b>simulate-zone-req</b>	Simulates policy engine zone.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** None

**Examples** This example shows how to test the policy engine:  
vsg# **test policy-engine simulate-zone-req**

Related Commands	Command	Description
	<b>show policy-engine</b>	Displays policy-engine statistics.

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## traceroute

To discover routes, use the **traceroute** command.

```
traceroute {A.B.C.D. | host-name} [source src-ipv4-addr | vrf vrf-name | show-mpls-hops]
```

Syntax Description		
<i>A.B.C.D.</i>   <i>host-name</i>	IPv4 address or host-name of the destination device. Name is case sensitive.	
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) to use. The name is case sensitive.	
<b>show-mpls-hops</b>	(Optional) Displays the Multiprotocol Label Switching (MPLS) hops.	
<b>source</b> <i>src-ipv4-addr</i>	(Optional) Specifies a source IPv4 address. The format is <i>A.B.C.D.</i>	

Defaults	
	Uses the default VRF.
	Does not show the MPLS hops.
	Uses the management IPv4 address for the source address.

Command Modes	
	EXEC
	Global configuration (config)

SupportedUserRoles	
	network-admin

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

Usage Guidelines	
	None

Usage Guidelines	
	To use IPv6 addressing for discovering the route to a device, use the <b>traceroute6</b> command.

**Examples** This example shows how to discover a route to a device:

```
vsg# traceroute 172.28.255.18 vrf management
traceroute to 172.28.255.18 (172.28.255.18), 30 hops max, 40 byte packets
 1  172.28.230.1 (172.28.230.1)  0.746 ms  0.595 ms  0.479 ms
 2  172.24.114.213 (172.24.114.213)  0.592 ms  0.51 ms  0.486 ms
 3  172.20.147.50 (172.20.147.50)  0.701 ms  0.58 ms  0.486 ms
 4  172.28.255.18 (172.28.255.18)  0.495 ms  0.43 ms  0.482 ms
```

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Related Commands	Command	Description
	<b>traceroute6</b>	Discovers the route to a device using IPv6 addressing.

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## username name password

To set a password for the user name, use the **username name password** command.

```
username name password {0 password | 5 password | password}
```

Syntax Description		
<b>0</b> password	Password. <b>0</b> denotes that the password that follows should be set in clear text. The maximum size for <i>password</i> is 64 characters.	
<b>5</b> password	Password. <b>5</b> denotes that the password that follows should be encrypted. The maximum size for <i>password</i> is 64 characters.	
password	Password in clear text. The maximum size for <i>password</i> is 64 characters.	

**Defaults** None

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin

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

**Usage Guidelines** None

**Examples** This example shows how to set a password for the user name:

```
vsg# configure
vsg(config)# username admin password 5 q0w9e8R7
```

**Usage Guidelines** The Cisco VSG does not support multiple user accounts. It supports only the default **admin** user account.

Related Commands	Command	Description
	show users	Displays users.

■ where

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## where

To display your current context, use the **where** command.

**where** [**detail**]

<b>Syntax Description</b>	<b>detail</b> (Optional) Displays detailed context information.				
<b>Defaults</b>	Displays summary context information.				
<b>Command Modes</b>	EXEC Global configuration (config)				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				
<b>Usage Guidelines</b>	None				
<b>Examples</b>	<p>This example shows how to display summary context information:</p> <pre>vsg# where       admin@firewall vsg#</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>pwd</b></td> <td>Displays what directory you are in.</td> </tr> </tbody> </table>	Command	Description	<b>pwd</b>	Displays what directory you are in.
Command	Description				
<b>pwd</b>	Displays what directory you are in.				



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## write erase

To erase configurations in persistent memory areas, use the **write erase** command.

**write erase [boot | debug]**

Syntax Description	boot	(Optional) Erases the boot variable and management 0 interface configurations.
	<b>debug</b>	(Optional) Erases only the debug configuration.

**Defaults** Erases all configuration in persistent memory except for the boot variable, mgmt0 interface, and debug configuration.

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** When information is corrupted or unusable, use this command to erase startup configuration in the persistent memory. This returns the device to its initial state, except for the boot variable, mgmt0 interface, and debug configurations. To erase those, specifically use the **boot** and **debug** options.

**Examples** This example shows how to erase the startup configuration:

```
vsg(config)# write erase
Warning: This command will erase the startup-configuration.
Do you wish to proceed anyway? (y/n) [n] y
```

This example shows how to erase the boot variable and mgmt0 interface configuration in the persistent memory:

```
vsg(config)# write erase boot
```

This example shows how to erase the debug configuration in the persistent memory:

```
vsg(config)# write erase debug
```

■ write erase

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Related Commands	Command	Description
	<b>copy running-config startup-config</b>	Copies the running configuration to the startup configuration.
	<b>show running-config</b>	Displays the startup configuration.

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## CHAPTER **3**

# Cisco Virtual Security Gateway Show Commands

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This chapter provides information about Virtual Security Gateway show commands.

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## show aaa

To display information about AAA, use the **show aaa** command.

```
show aaa [accounting | authentication | authorization | groups | users]
```

Syntax Description	
<b>accounting</b>	(Optional) Displays the accounting configuration.
<b>authentication</b>	(Optional) Displays the authentication configuration.
<b>authorization</b>	(Optional) Displays the authorization configuration.
<b>groups</b>	(Optional) Displays configured groups.
<b>users</b>	(Optional) Displays remotely authenticated users.

Defaults	
	None

Command Modes	
	EXEC Global configuration (config)

SupportedUserRoles	
	network-admin network-operator

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

Usage Guidelines	
	You can use the following operators with the <b>show aaa</b> command: <ul style="list-style-type: none"> <li>• &gt;—Redirects the output to a file.</li> <li>• &gt;&gt;—Redirects the output to a file in append mode.</li> <li>•  —Pipes the command output to a filter.</li> </ul>

Examples	
	This example shows how to display the AAA configuration: <pre>vsg# show aaa authentication       default: local       console: local vsg#</pre>

Related Commands	Command	Description
	<b>password</b>	Configures the password.

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## show ac-driver

To display application container statistics, use the **show ac-driver** command.

### show ac-driver statistics

<b>Syntax Description</b>	<b>statistics</b>	Displays application container statistics.
<b>Defaults</b>	None	
<b>Command Modes</b>	EXEC Global configuration (config)	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

**Usage Guidelines** You can use the following operators with the **show ac-driver** 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 application container statistics:

```
vsg# show ac-driver statistics
#Packet Statistics:
  Rcvd Total                614249  Buffers in Use                3174
  Rcvd VPath Pkts          20018   Sent to VPath                 20018
  Sent to Service-Path     20018   Sent to Control-Path         594231
  All Drops                 0       Invalid LLC                   91
  Invalid OUI               0       Invalid VNS Hdr              0
  Invalid VNS PDU          0       Service-Path not Initd       0
  Service-Path Down        0       Rcvd Bad Descriptor          0
  Send to Service-Path Err 0       Packet Offset Err            0
  Send Bad Descriptor      0       Send NIC Err                  0
vsg#
```

■ show ac-driver

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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show vsg</b>	Displays information about a VSG.

---

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## show accounting

To display the accounting log, use the **show accounting** command.

**show accounting log** [**start-time** *year month day time* **end-time** *year month day time*]

Syntax Description	log	Accounting log.
	<b>start-time</b>	(Optional) Specifies the date in the log the display will start.
	<i>year month day time</i>	(Optional) Year, day and time. The range for <i>year</i> is from 1970 to 2030, and is in YYYY format. The values for <i>month</i> are <b>Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, and Dec</b> . The range for <i>day</i> is from 1 to 31, and is in dd format. <i>time</i> is in HH:MM:SS.
	<b>end-time</b>	(Optional) Specifies the date in the log the display will end.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

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

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display the accounting log:

```
vsg# show accounting log
Fri Jan 21 17:19:35 2011:update:171.69.17.61@pts/0:admin:dir (SUCCESS)
Fri Jan 21 17:23:36 2011:update:10.193.73.130@ssh.3115:vsnbetauser:test vnspl
1 (SUCCESS)
Fri Jan 21 17:24:04 2011:update:10.193.73.130@ssh.3120:vsnbetauser:test vnspl
1 (SUCCESS)
```

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```

Mon Jan 24 12:50:23 2011:start:171.70.216.167@pts/1:admin:
Mon Jan 24 12:52:59 2011:update:171.70.216.167@pts/1:admin:configure (SUCCESS)
Mon Jan 24 12:55:46 2011:stop:171.70.216.167@pts/1:admin:shell terminated gracefully
Wed Feb  2 13:56:54 2011:start:171.70.225.85@pts/2:admin:
Wed Feb  2 14:20:41 2011:stop:171.70.225.85@pts/2:admin:shell terminated because
of telnet closed
Wed Feb  2 14:32:19 2011:start:171.70.225.85@pts/3:admin:
Wed Feb  2 14:39:48 2011:stop:171.70.225.85@pts/3:admin:shell terminated because
of telnet closed
Fri Feb  4 12:16:43 2011:start:171.71.29.84@pts/4:admin:
Fri Feb  4 12:17:11 2011:update:171.71.29.84@pts/4:admin:configure (SUCCESS)
Fri Feb  4 12:18:22 2011:update:171.71.29.84@pts/4:admin:configure terminal ; vnm-policy-agent (SUCCESS)
Fri Feb  4 12:20:41 2011:stop:171.71.29.84@pts/4:admin:shell terminated because
of telnet closed
Fri Feb  4 14:22:18 2011:start:171.71.29.84@pts/5:admin:
Fri Feb  4 14:23:05 2011:update:171.71.29.84@pts/5:admin:configure (SUCCESS)
Fri Feb  4 15:33:06 2011:stop:171.71.29.84@pts/5:admin:shell terminated because
of telnet closed
Fri Feb  4 17:05:05 2011:start:171.71.29.84@pts/6:admin:
Fri Feb  4 18:25:32 2011:stop:171.71.29.84@pts/6:admin:shell terminated because
of telnet closed
Mon Feb  7 14:12:19 2011:start:171.71.29.84@pts/7:admin:
Mon Feb  7 15:51:10 2011:stop:171.71.29.84@pts/7:admin:shell terminated because
of telnet closed
Mon Feb  7 16:30:10 2011:start:171.71.29.84@pts/8:admin:
Mon Feb  7 19:11:13 2011:stop:171.71.29.84@pts/8:admin:shell terminated because
of telnet closed
Wed Feb  9 14:43:26 2011:start:10.21.84.66@pts/9:admin:
Wed Feb  9 17:43:30 2011:stop:10.21.84.66@pts/9:admin:shell terminated because of
telnet closed
Wed Feb  9 18:13:10 2011:start:10.21.84.66@pts/10:admin:
Wed Feb  9 18:40:00 2011:update:10.21.84.66@pts/10:admin:configure (SUCCESS)
Wed Feb  9 19:50:37 2011:start:10.21.84.66@pts/11:admin:
Wed Feb  9 20:49:00 2011:stop:10.21.84.66@pts/10:admin:shell terminated because
of telnet closed
Wed Feb  9 22:03:36 2011:stop:10.21.84.66@pts/11:admin:shell terminated because
of telnet closed
Thu Feb 10 18:41:45 2011:start:171.71.29.84@pts/12:admin:
Thu Feb 10 18:50:50 2011:stop:171.71.29.84@pts/12:admin:shell terminated because
of telnet closed
Fri Feb 11 12:09:57 2011:start:171.71.29.84@pts/13:admin:
Fri Feb 11 16:55:21 2011:stop:171.71.29.84@pts/13:admin:shell terminated because
of telnet closed
Fri Feb 11 18:19:49 2011:start:171.71.29.84@pts/14:admin:
Fri Feb 11 18:55:54 2011:stop:171.71.29.84@pts/14:admin:shell terminated because
of telnet closed
Mon Feb 14 13:35:27 2011:start:171.71.29.84@pts/15:admin:
vsg#

```

#### Related Commands

Command	Description
<b>show logging</b>	Displays the logging configuration and the contents of the log file.



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## show banner

To display the banner, use the **show banner** command.

**show banner motd**

Syntax Description	motd	Specifies the message of the day.
--------------------	------	-----------------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

Supported User Roles	network-admin network-operator
----------------------	-----------------------------------

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

Usage Guidelines	You can use the following operators with the <b>show banner</b> command: <ul style="list-style-type: none"> <li>• &gt;—Redirects the output to a file.</li> <li>• &gt;&gt;—Redirects the output to a file in append mode.</li> <li>•  —Pipes the command output to a filter.</li> </ul>
------------------	---

Examples	This example shows how to display the banner:
----------	---

```
vsg# show banner motd
Nexus VSG
vsg#
```

Related Commands	Command	Description
	<b>banner</b>	Creates a banner message.

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## show boot

To display boot variables, use the **show boot** command.

```
show boot [auto-copy | module | sup-1 | sup-2 | variables]
```

Syntax Description	auto-copy	(Optional) Displays whether auto copy is enabled or disabled.
	<b>module</b>	(Optional) Displays the boot variables for a specific module or all modules.
	<b>sup-1</b>	(Optional) Displays the current and next load boot variables for supervisor 1.
	<b>sup-2</b>	(Optional) Displays the current and next load boot variables for supervisor 2.
	<b>variables</b>	(Optional) Displays a list of boot variables.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	You can use the following operators with the <b>show boot</b> 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 boot variables:
----------	---

```
vsg# show boot
Current Boot Variables:

sup-1
kickstart variable = bootflash:/ks.bin
system variable = bootflash:/sys.bin
sup-2
kickstart variable = bootflash:/ks.bin
system variable = bootflash:/sys.bin
No module boot variable set
```

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Boot Variables on next reload:

```
sup-1
kickstart variable = bootflash:/ks.bin
system variable = bootflash:/sys.bin
sup-2
kickstart variable = bootflash:/ks.bin
system variable = bootflash:/sys.bin
No module boot variable set
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>boot</b>	Creates boot variables.

---

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## show cdp

To display CDP information, use the **show cdp** command.

```
show cdp {all | entry | global | interface | internal | neighbors | traffic}
```

Syntax Description		
	<b>all</b>	Displays all interfaces in the CDP database.
	<b>entry</b>	Displays CDP entries in the CDP database.
	<b>global</b>	Displays global CDP information.
	<b>interface</b>	Displays CDP information for an interface.
	<b>internal</b>	Displays private memory statistics for the UUID.
	<b>neighbors</b>	Displays CDP neighbors.
	<b>traffic</b>	Displays CDP traffic statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

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

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display all interfaces in the CDP database:

```
vsg# show cdp all
Interface Index :83886080
Interface mgmt0:
  Operational status: up
  Config status: enabled
```

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```
Refresh time: 60
Hold time: 180

Interface Index :117440512
Interface data0:
  Operational status: up
  Config status: enabled
  Refresh time: 60
  Hold time: 180
vsg#
```

**Related Commands**

Command	Description
cdp	Configures CDP parameters.

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## show cli

To display CLI information, use the **show cli** command.

```
show cli {alias | dynamic | history | interface | internal | list | syntax | variables}
```

Syntax Description		
<b>alias</b>		Displays the CLI alias.
<b>dynamic</b>		Display the current range of dynamic parameters.
<b>history</b>		Displays CLI command history.
<b>interface</b>		Displays the CLI interface table.
<b>internal</b>		Displays CLI statistics.
<b>list</b>		Displays CLI command syntax.
<b>syntax</b>		Displays the Extended Backus–Naur Form (EBNF) syntax of all commands.
<b>variables</b>		Displays CLI variables

Defaults	
	None

Command Modes	
	EXEC

Global configuration (config)

SupportedUserRoles	
	network-admin
	network-operator

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

Usage Guidelines	
	You can use the following operators with the <b>show cli</b> command:

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

Examples	
	This example shows how to display CLI variables:

```
vsg# show cli variables
VSH Variable List
-----
```

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```
SWITCHNAME="vsg"  
TIMESTAMP="2011-02-14-17.33.37"  
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>cli var</b>	Defines CLI variables.

---

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## show clock

To display the clock, use the **show clock** command.

**show clock [detail]**

<b>Syntax Description</b>	<b>detail</b> (Optional) Displays the day, the time, and the year.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	<p>You can use the following operators with the <b>show clock</b> command:</p> <ul style="list-style-type: none"> <li>• &gt;—Redirects the output to a file.</li> <li>• &gt;&gt;—Redirects the output to a file in append mode.</li> <li>•  —Pipes the command output to a filter.</li> </ul>
-------------------------	---

<b>Examples</b>	<p>This example shows how to display the clock:</p> <pre>vsg# show clock detail Mon Feb 14 17:47:44 UTC 2011 vsg#</pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>clock</b>	Manages the system clock.



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## show copyright

To display copyright information, use the **show copyright** command.

### show copyright

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show copyright** 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 copyright information:

```
vsg# show copyright
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2011, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vsg#
```

■ show copyright

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Related Commands	Command	Description
	show version build-info	Displays build information.

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## show cores

To display all core dumps, use the **show cores** command.

**show cores**

<b>Syntax Description</b>	This command has no arguments or keywords.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>SupportedUserRoles</b>	network-admin network-operator
---------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	You can use the following operators with the <b>show cores</b> command:
-------------------------	---

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

<b>Examples</b>	This example shows how to display all core dumps:
-----------------	---

```
vsg# show cores
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show event-log</b>	Displays the event log.

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## show debug

To show debug flags, use the **show debug** command.

```
show debug [aaa | arp | ascii-cfg | bootvar | capability | cdp | cert-enroll | clis | core | ethpm |
evmc | fm | fs-daemon | igmp | im | ip | ipconf | ipv6 | kadb | klm-rswem | logfile | module |
monitor | msp | mvsh | ntp | platform | plug in | port-channel | redundancy | res_mgr |
scheduler | security | snmp | system | tcap | ttyd | vdc | vlan | vnm | vnm-pa | vsh | vshd | xml]
```

### Syntax Description

<b>aaa</b>	(Optionsl) Displays AAA debugging flags.
<b>arp</b>	(Optionsl) Displays ARP debugging flags.
<b>ascii-cfg</b>	(Optionsl) Displays ASCII-CFG debugging flags.
<b>bootvar</b>	(Optionsl) Displays boot variables debugging flags.
<b>capability</b>	(Optionsl) Displays capability debugging flags.
<b>cdp</b>	(Optionsl) Displays CDP debugging flags.
<b>cert-enroll</b>	(Optionsl) Displays certificate enrollment debugging flags.
<b>clis</b>	(Optionsl) Displays CLI debugging flags.
<b>core</b>	(Optionsl) Displays core daemon debugging flags.
<b>ethpm</b>	(Optionsl) Displays ETHPM debugging flags.
<b>evmc</b>	(Optionsl) Displays EVMC debugging flags.
<b>fm</b>	(Optionsl) Displays feature manager debugging flags.
<b>fs-daemon</b>	(Optionsl) Displays FS daemon debugging flags.
<b>igmp</b>	(Optionsl) Displays PIM debugging flags.
<b>im</b>	(Optionsl) Displays IM debugging flags.
<b>ip</b>	(Optionsl) Displays IP information.
<b>ipconf</b>	(Optionsl) Displays IPCONF debugging flags.
<b>ipv6</b>	(Optionsl) Displays IPv6 information.
<b>kadb</b>	(Optionsl) Displays Kernel ADB debugging flags.
<b>klm-rwsem</b>	(Optionsl) Displays RWSEM driver debugging flags.
<b>logfile</b>	(Optionsl) Displays the log file.
<b>module</b>	(Optionsl) Displays module debugging flags.
<b>monitor</b>	(Optionsl) Displays Ethernet Span debugging flags.
<b>msp</b>	(Optionsl) Displays MSP debugging flags.
<b>mvsh</b>	(Optionsl) Displays MVSH debugging flags.
<b>ntp</b>	(Optionsl) Displays NTP debugging flags.
<b>platform</b>	(Optionsl) Displays platform manager debugging flags.
<b>plugin</b>	(Optionsl) Displays plugin debugging flags.
<b>port-channel</b>	(Optionsl) Displays port channel debugging flags.
<b>redundancy</b>	(Optionsl) Displays redundancy driver debugging flags.
<b>res_mgr</b>	(Optionsl) Displays resource manager debugging flags.
<b>scheduler</b>	(Optionsl) Displays scheduler debugging flags.
<b>security</b>	(Optionsl) Displays security debugging flags.

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<b>snmp</b>	(Options) Displays SNMP server debugging flags.
<b>system</b>	(Options) Displays system debugging flags.
<b>tcap</b>	(Options) Displays exception logger debugging flags.
<b>ttyd</b>	(Options) Displays TTYD debugging flags.
<b>vdc</b>	(Options) Displays VDC manager debugging flags.
<b>vlan</b>	(Options) Displays VLAN manager debugging flags.
<b>vmm</b>	(Options) Displays VMM debugging flags.
<b>vnm-pa</b>	(Options) Displays VNM PA debugging flags.
<b>vsh</b>	(Options) Displays VSH debugging flags.
<b>vshd</b>	(Options) Displays VSHD debugging flags.
<b>xml</b>	(Options) Displays XML debugging flags.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

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

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display AAA debug flags:

```
vsg# show debug aaa
```

Related Commands	Command	Description
	<b>show debug-filter</b>	Displays debugging filters.

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## show debug-filter

To display debug filters, use the **show debug-filter** command.

```
show debug-filter {all | arp | igmp | ip | ipv6}
```

Syntax Description		
	<b>all</b>	Displays all debugs filters.
	<b>arp</b>	Displays ARP debug filters.
	<b>igmp</b>	Displays IGMP debug filters.
	<b>ip</b>	Displays IP information.
	<b>ipv6</b>	Displays IPv6 information.

Defaults	
	None

Command Modes	
	EXEC Global configuration (config)

SupportedUserRoles	
	network-admin network-operator

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

Usage Guidelines	
	You can use the following operators with the <b>show debug-filter</b> command:

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

Examples	
	This example shows how to display debug filters:

```
vsg# show debug-filter all
```

Related Commands	Command	Description
	<b>show debug</b>	Displays debugging flags.

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## show environment

To display information about the system environment, use the **show environment** command.

**show environment [clock | fan | power | temperature]**

Syntax Description	
<b>clock</b>	(Optional) Displays clock information.
<b>fan</b>	(Optional) Displays fan information.
<b>power</b>	(Optional) Displays power capacity and power distribution information.
<b>temperature</b>	(Optional) Displays temperature sensor information.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show environment** 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 the system fan:

```
vsg# show environment fan
Fan:
-----
Fan           Model           Hw           Status
-----
ChassisFan1   0.0             0.0         Ok
ChassisFan2   0.0             0.0         None
Fan Air Filter : NotSupported
vsg#
```

■ show environment

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Related Commands	Command	Description
	show clock	Displays the system clock.



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## show event manager internal

To display event manager events, use the **show event manager internal** command.

**show event manager internal** [evmc | mvsh]

Syntax Description	
<b>evmc</b>	(Optional) Displays event manager events.
<b>mvsh</b>	(Optional) Displays memory allocation statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show event manager** command:

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display event manager errors:

```
vsg# show event manager internal errors
1) Event:E_DEBUG, length:253, at 232142 usecs after Wed Feb 16 15:20:07 2011
   [100] fu_sdb_handle_update: validation fail, fu_is_st
ate_active = 1, fu_is_sync_pss_to_standby_enabled = 0,
   mts_sync_event_get(mts_msg) = 0,
   create_del) = 0

2) Event:E_DEBUG, length:43, at 232138 usecs after Wed Feb 16 15:20:07 2011
   [100] fu_sdb_handle_update: validation fail
```

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- 3) Event:E\_DEBUG, length:55, at 232136 usecs after Wed Feb 16 15:20:07 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Set of checks failed
- 4) Event:E\_DEBUG, length:58, at 971337 usecs after Wed Feb 16 15:20:02 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 5) Event:E\_DEBUG, length:58, at 971525 usecs after Wed Feb 16 15:19:57 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 6) Event:E\_DEBUG, length:58, at 971719 usecs after Wed Feb 16 15:19:52 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 7) Event:E\_DEBUG, length:58, at 971918 usecs after Wed Feb 16 15:19:47 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 8) Event:E\_DEBUG, length:58, at 971103 usecs after Wed Feb 16 15:19:42 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 9) Event:E\_DEBUG, length:58, at 971307 usecs after Wed Feb 16 15:19:37 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 10) Event:E\_DEBUG, length:58, at 971524 usecs after Wed Feb 16 15:19:32 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 11) Event:E\_DEBUG, length:58, at 971693 usecs after Wed Feb 16 15:19:27 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 12) Event:E\_DEBUG, length:58, at 971886 usecs after Wed Feb 16 15:19:22 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 13) Event:E\_DEBUG, length:58, at 971094 usecs after Wed Feb 16 15:19:17 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 14) Event:E\_DEBUG, length:58, at 971275 usecs after Wed Feb 16 15:19:12 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 15) Event:E\_DEBUG, length:58, at 971494 usecs after Wed Feb 16 15:19:07 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 16) Event:E\_DEBUG, length:58, at 971702 usecs after Wed Feb 16 15:19:02 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 17) Event:E\_DEBUG, length:58, at 971921 usecs after Wed Feb 16 15:18:57 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg
- 18) Event:E\_DEBUG, length:58, at 971218 usecs after Wed Feb 16 15:18:52 2011  
[100] fu\_sync\_pss\_to\_standby\_apply:Input event not MTS msg

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```
19) Event:E_DEBUG, length:58, at 971289 usecs after Wed Feb 16 15:18:47 2011
    [100] fu_sync_pss_to_standby_apply:Input event not MTS msg
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show event-log</b>	Displays the event log.

---

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## show event-log

To display the event log, use the **show event-log** command.

```
show event-log all
```

Syntax Description	all	Displays the event log.
--------------------	-----	-------------------------

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	<p>You can use the following operators with the <b>show event-log</b> command:</p> <ul style="list-style-type: none"> <li>&gt;—Redirects the output to a file.</li> <li>&gt;&gt;—Redirects the output to a file in append mode.</li> <li> —Pipes the command output to a filter.</li> </ul> <p>When you execute a show command that displays a long list of data, you can press <b>Ctrl+c</b> at any time to exit that list.</p>
------------------	--

Examples	<p>This example shows how to display the event log:</p> <pre>vsg# show event-log all</pre>
----------	--

Related Commands	Command	Description
	<b>show event manager</b>	Displays the event manager.
	<b>internal</b>	

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## show feature

To display system features, use the **show feature** command.

**show feature**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show feature** 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 system features:

```
vsg# show feature
Feature Name      Instance  State
-----
dhcp-snooping    1         disabled
http-server      1         enabled
lACP              1         disabled
netflow          1         disabled
port-profile-roles 1         disabled
private-vlan     1         disabled
sshServer        1         enabled
tacacs           1         enabled
telnetServer     1         enabled
vsg#
```

■ show feature

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---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show http-server</b>	Displays the status of the HTTP server.

---

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## show file

To confirm a directories existence, use the **show file** command.

```
show file { bootflash: | debug: | modflash: | volatile: }
```

Syntax Description	
<b>bootflash:</b>	Specifies the bootflash directory.
<b>debug:</b>	Specifies the debug directory.
<b>modflash:</b>	Specifies the modflash directory.
<b>volatile:</b>	Specifies the volatile directory.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

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

Examples	This example shows how to confirm the existence of the bootflash directory: <pre>vsg# show file bootflash: /bin/showfile: /bootflash/: Is a directory vsg#</pre>
----------	--

Related Commands	Command	Description
	<b>pwd</b>	Displays the current directory.

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## show hardware

To display hardware statistics, use the **show hardware** command.

**show hardware** [**capacity** | **internal**]

Syntax Description	capacity	(Optional) Displays usage levels.
	<b>internal</b>	(Optional) Displays internal hardware information.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show hardware** 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 management 0 port statistics:

```
vsg# show hardware internal mgmt0 stats
eth1    Link encap:Ethernet  HWaddr 00:50:56:BB:00:38
        inet addr:10.193.73.138  Bcast:10.193.79.255  Mask:255.255.248.0
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:1193889201  errors:0  dropped:0  overruns:0  frame:0
        TX packets:1298817  errors:0  dropped:0  overruns:0  carrier:0
        collisions:0  txqueuelen:1000
        RX bytes:162479674502 (151.3 GiB)  TX bytes:192218320 (183.3 MiB)

vsg#
```

Related Commands	Command	Description
	<b>show interface</b>	Displays interface status and information.



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## show hostname

To display the host name, use the **show hostname** command.

**show hostname**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show hostname** 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 host name:

```
vsg# show hostname
VSG129-2
vsg#
```

Related Commands	Command	Description
	show hosts	Displays the hosts.

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## show hosts

To display hosts, use the **show hosts** command.

**show hosts**

---

**Syntax Description** This command has no arguments or keywords.

---

**Defaults** None

---

**Command Modes** EXEC  
Global configuration (config)

---

**SupportedUserRoles** network-admin  
network-operator

---

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

---



---

**Usage Guidelines** You can use the following operators with the **show hosts** 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 hosts:

```
vsg# show hosts
DNS lookup enabled
Name/address lookup uses domain service
Name servers are 255.255.255.255
Host Address
tst1 209.165.200.227
tst2 209.165.200.229
vsg#
```

---

Related Commands	Command	Description
	show hostname	Displays the host name.

---

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## show http-server

To display the status of the HTTP server, use the **show http-server** command.

**show http-server**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show http-server** 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 to display the status of the HTTP server:

```
vsg# show http-server
http-server not enabled
vsg#
```

Related Commands	Command	Description
	show feature	Displays system features.

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## show incompatibility

To display incompatibilities with an image, use the **show incompatibility** command.

```
show incompatibility system { bootflash: | volatile: }
```

Syntax Description		
<b>system</b>		Displays directories.
<b>bootflash:</b>		Specifies the bootflash directory.
<b>volatile:</b>		Specifies the volatile directory.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

Usage Guidelines	You can use the following operators with the <b>show incompatibility</b> 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 to display incompatibilities with an image:
----------	--

```
vsg# show incompatibility system bootflash:
```

Related Commands	Command	Description
	<b>show verison image</b>	Displays the software version of an image.

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## show inspect ftp statistics

To display inspection FTP statistics, use the **show inspect ftp statistics** command.

```
show inspect ftp statistics [svs-domain]
```

<b>Syntax Description</b>	<b>svs-domain</b> (Optional) Specifies the SVS domain identification number.
---------------------------	--

<b>Defaults</b>	None
-----------------	------

<b>Command Modes</b>	EXEC Global configuration (config)
----------------------	---------------------------------------

<b>Supported User Roles</b>	network-admin network-operator
-----------------------------	-----------------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

<b>Usage Guidelines</b>	<p>You can use the following operators with the <b>show inspect ftp statistics</b> command:</p> <ul style="list-style-type: none"> <li>• &gt;—Redirects the output to a file.</li> <li>• &gt;&gt;—Redirects the output to a file in append mode.</li> <li>•  —Pipes the command output to a filter.</li> </ul>
-------------------------	--

**Examples** This example shows to display inspection FTP statistics:

```
vsg# show inspect ftp statistics
Input packets          1000
Dropped packets        6
Reset-drop packets     0
New connections        1
Deleted connections    0
IPC errors              0
IPC allocation errors  0
vsg#
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show ip tftp</b>	Display TFTP client information.

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## show install all

To display installation logs, use the **show install all** command.

```
show install all {failed-standby | failure-reason | impact | status}
```

Syntax Description	failed-standby	Description
	failed-standby	Displays a log that reports failed-standby installations.
	failure-reason	Displays a log that reports the reason for failed installations.
	impact	Displays a log that reports the impact of installations.
	status	Displays a log that reports the status of the current installation.

Defaults	None
	None

Command Modes	EXEC
	Global configuration

Supported User Roles	network-admin
	network-operator

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

Usage Guidelines	You can use the following operators with the <b>show install all</b> command:
	<ul style="list-style-type: none"> <li>&gt;—Redirects the output to a file.</li> <li>&gt;&gt;—Redirects the output to a file in append mode.</li> <li> —Pipes the command output to a filter.</li> </ul>

Examples	This example shows to displays a log that reports the status of the current installation:
	<pre>vsg# show install all status No installation has taken place since the last reboot. vsg#</pre>

Related Commands	Command	Description
	show version image	Displays the software version of an image.

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## show interface

To display information about interfaces, use the **show interface** command.

```
show interface [brief | capabilities | counters | data | description | ethernet | loopback |
mac-address | mgmt | port-channel | snmp-ifindex | status | switchport | transceiver | trunk]
```

Syntax	Description
<b>brief</b>	(Optional) Displays brief information about an interface.
<b>capabilities</b>	(Optional) Displays information about interface capabilities.
<b>counters</b>	(Optional) Displays interface counters.
<b>data</b>	(Optional) Displays the data interface.
<b>description</b>	(Optional) Displays a description of an interface.
<b>ethernet</b>	(Optional) Displays Ethernet IEEE 802.3z interfaces.
<b>loopback</b>	(Optional) Displays the loopback interface.
<b>mac-address</b>	(Optional) Displays the MAC address of an interface.
<b>mgmt</b>	(Optional) Displays the management interface.
<b>port-channel</b>	(Optional) Displays port channel interfaces.
<b>snmp-ifindex</b>	(Optional) Displays the SNMP interface index.
<b>status</b>	(Optional) Displays the interface line status.
<b>switchport</b>	(Optional) Displays the switchport interface.
<b>transceiver</b>	(Optional) Displays interface transceiver information.
<b>trunk</b>	(Optional) Displays trunk interface information.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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### Usage Guidelines

You can use the following operators with the **show interface** 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 to display information about the management 0 interface:

```
vsg# show interface mgmt 0
mgmt0 is up
  Hardware: Ethernet, address: 0050.56bb.0038 (bia 0050.56bb.0038)
  Internet Address is 10.193.73.138/21
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA
  full-duplex, 10 Gb/s
  Auto-Negotiation is turned on
  1 minute input rate 44136 bits/sec, 62 packets/sec
  1 minute output rate 1808 bits/sec, 1 packets/sec
  Rx
    755797571 input packets 131701 unicast packets 2575417 multicast packets
    753090453 broadcast packets 107614075553 bytes
  Tx
    1240518 output packets 1144680 unicast packets 43411 multicast packets
    52427 broadcast packets 203763544 bytes
vsg#
```

### Related Commands

Command	Description
<b>show ip interface</b>	Displays IP interface information.



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## show ip

To display IP statistics, use the **show ip** command.

```
show ip {adjacency | arp | client | igmp | interface | internal | logging | netstack | process | route
        | static-route | tftp | traffic}
```

Syntax Description		
<b>adjacency</b>		Displays the IP adjacency table.
<b>arp</b>		Displays IP ARP table and statistics.
<b>client</b>		Displays clients registered with the IP process.
<b>igmp</b>		Display IP address IGMP status and configuration.
<b>interface</b>		Display IP interface information.
<b>internal</b>		Display internal IP information.
<b>logging</b>		Displays the IP policy logging table.
<b>netstack</b>		Displays the netstack local cache.
<b>process</b>		Display global IP information.
<b>route</b>		Displays routing information.
<b>static-route</b>		Displays configured static routes.
<b>tftp</b>		Displays TFTP client information.
<b>traffic</b>		Displays IP software processed traffic statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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### Usage Guidelines

You can use the following operators with the **show ip** 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 IP traffic statistics:

```
vsg# show ip traffic
IP Software Processed Traffic Statistics
-----
Transmission and reception:
  Packets received: 647601245, sent: 1145486, consumed: 0,
  Forwarded, unicast: 1099007, multicast: 0, Label: 0
Opts:
  end: 0, nop: 0, basic security: 0, loose source route: 0
  timestamp: 0, record route: 0
  strict source route: 0, alert: 4,
  other: 0
Errors:
  Bad checksum: 0, packet too small: 0, bad version: 0,
  Bad header length: 0, bad packet length: 0, bad destination: 0,
  Bad ttl: 0, could not forward: 645386546, no buffer dropped: 0,
  Bad encapsulation: 20, no route: 377, non-existent protocol: 0
  MBUF pull up fail: 0
Fragmentation/reassembly:
  Fragments received: 0, fragments sent: 0, fragments created: 0,
  Fragments dropped: 0, packets with DF: 0, packets reassembled: 0,
  Fragments timed out: 0
ICMP Software Processed Traffic Statistics
-----
Transmission:
  Redirect: 30725, unreachable: 0, echo request: 0, echo reply: 0,
  Mask request: 0, mask reply: 0, info request: 0, info reply: 0,
  Parameter problem: 0, source quench: 0, timestamp: 0,
  Timestamp response: 0, time exceeded: 0,
  Irdp solicitation: 0, irdp advertisement: 0
Reception:
  Redirect: 0, unreachable: 0, echo request: 0, echo reply: 0,
  Mask request: 0, mask reply: 0, info request: 0, info reply: 0,
  Parameter problem: 0, source quench: 0, timestamp: 0,
  Timestamp response: 0, time exceeded: 0,
  Irdp solicitation: 0, irdp advertisement: 0,
  Format error: 0, checksum error: 0
Statistics last reset: never
```

### Related Commands

Command	Description
<b>show ipv6</b>	Displays IPv6 information.

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## show ipv6

To display IPv6 statistics, use the **show ipv6** command.

```
show ipv6 {adjacency | icmp | mld | nd | neighbor | route | routers}
```

Syntax Description		
<b>adjacency</b>		Displays the IPv6 adjacency table.
<b>icmp</b>		Displays ICMPv6 information.
<b>mld</b>		Displays Multicast Listener Discovery information.
<b>nd</b>		Displays Neighbor Discovery interface information.
<b>neighbor</b>		Displays IPv6 neighbor information.
<b>route</b>		Displays the IPv6 routing table.
<b>routers</b>		Displays neighbor routing information.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show ipv6** command:

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

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---

**Examples**

This example shows how to display an IPv6 adjacency table:

```
vsg# show ipv6 adjacency summary
IPv6 AM Table - Adjacency Summary

  Static   : 2
  Dynamic  : 03
  Others   : 0
  Total    : 5

vsg#
```

---

**Related Commands**

Command	Description
show ip	Displays IP information.

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## show kernel internal

To display kernel information, use the **show kernel** command.

```
show kernel internal {aipc | cpuhogmon | ide-statistics | malloc-stats | meminfo | messages |
                    skb-stats | softnetstat}
```

Syntax Description		
	<b>aipc</b>	Displays kernel AIPC information.
	<b>cpuhogmon</b>	Displays CPU hog monitoring.
	<b>ide-statistics</b>	Displays IDE statistics
	<b>malloc-stats</b>	Displays malloc statistics.
	<b>meminfo</b>	Displays kernel memory usage information.
	<b>messages</b>	Displays kernel messages.
	<b>skb-stats</b>	Displays SK buffer alloc statistics.
	<b>softnetstat</b>	Displays kernel network queue information.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show kernel internal** 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 memory:

```
vsg# show kernel internal meminfo
MemTotal:      1944668 kB
MemFree:       909024 kB
Buffers:       70880 kB
Cached:        397144 kB
```

■ show kernel internal

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```

RAMCached:      351732 kB
Allowed:        486167 Pages
Free:           227256 Pages
Available:      257029 Pages
SwapCached:     0 kB
Active:         567632 kB
Inactive:       329852 kB
HighTotal:      1179584 kB
HighFree:       334080 kB
LowTotal:       765084 kB
LowFree:        574944 kB
SwapTotal:      0 kB
SwapFree:       0 kB
Dirty:          0 kB
Writeback:      0 kB
Mapped:         548996 kB
Slab:           29756 kB
CommitLimit:   972332 kB
Committed_AS:  943536 kB
PageTables:     4064 kB
VmallocTotal:  114680 kB
VmallocUsed:    87644 kB
VmallocChunk:  26940 kB
vsg#

```

#### Related Commands

Command	Description
<b>show system internal kernel</b>	Displays kernel information.

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## show line

To display the command line configuration, use the **show line** command.

```
show line [com1 | console]
```

Syntax Description	com1	(Optional) Displays the auxiliary command line configuration.
	console	(Optional) Displays the console command line configuration.

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

Command Modes	EXEC Global configuration
---------------	------------------------------

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

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

Usage Guidelines	You can use the following operators with the <b>show line</b> 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 command line configuration:
----------	---

```
vsg# show line
line Console:
  Speed:          9600 baud
  Databits:       8 bits per byte
  Stopbits:       1 bit(s)
  Parity:         none
  Modem In:       Disable
  Modem Init-String -
    default : ATE0Q1&D2&C1S0=1\015

line Aux:
  Speed:          9600 baud
  Databits:       8 bits per byte
  Stopbits:       1 bit(s)
  Parity:         none
```

**show line**

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```
Modem In: Disable
Modem Init-String -
    default : ATE0Q1&D2&C1S0=1\015
Hardware Flowcontrol: ON
```

vsg#

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>cli</b>	Configures the command line.

---



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## show logging

To display logging information, use the **show logging** command.

```
show logging [console | info | internal | last | level | logfile | module | monitor | pending |
pending-diff | server | session | status | timestamp]
```

Syntax Description	
<b>console</b>	(Optional) Displays the console logging configuration.
<b>info</b>	(Optional) Displays the logging configuration.
<b>internal</b>	(Optional) Displays Syslog information.
<b>last</b>	(Optional) Displays the last few lines of a log.
<b>level</b>	(Optional) Displays the facility logging configuration.
<b>logfile</b>	(Optional) Displays a log file.
<b>module</b>	(Optional) Displays the module logging configuration.
<b>monitor</b>	(Optional) Displays the monitor logging configuration.
<b>pending</b>	(Optional) Displays the server address pending configuration.
<b>pending-diff</b>	(Optional) Displays the server address pending configuration.
<b>server</b>	(Optional) Displays the server logging configuration.
<b>session</b>	(Optional) Displays the logging session status.
<b>status</b>	(Optional) Displays the logging status.
<b>timestamp</b>	(Optional) Displays the logging timestamp configuration.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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

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

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When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

### Examples

This example shows how to display the logfile:

```
VSG129-2# show logging logfile start-seqn 1
Last Log cleared/wrapped time is : None
1: 2011 Jan 21 17:17:21 VSG129-2 %KERN-2-SYSTEM_MSG: Starting kernel... - kernel
2: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: PCI: Cannot allocate resource region 1 of device 0000:00:0f.0 - kernel
3: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: sda: assuming drive cache: write through - kernel
4: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: sda: assuming drive cache: write through - kernel
5: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: CMOS: Module initialized - kernel
6: 2011 Jan 21 17:17:21 VSG129-2 %KERN-1-SYSTEM_MSG: calling register_stun_set_domain_id() - kernel
7: 2011 Jan 21 17:17:21 VSG129-2 %KERN-1-SYSTEM_MSG: register_stun_set_domain_id() - kernel
8: 2011 Jan 21 17:17:21 VSG129-2 %KERN-1-SYSTEM_MSG: Successfully registered SNAPP client for SNAP=0x00000c013200 0xf1117360 - kernel
9: 2011 Jan 21 17:17:21 VSG129-2 %KERN-1-SYSTEM_MSG: STUN : Successfully created Socket - kernel
10: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: redun_platform_ioctl : Entered - kernel
11: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: redun_platform_ioctl : SW version is set 4.2(1)VSG1(1) - kernel
12: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: - dhcpd
13: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: No subnet declaration for ftp0 (127.2.1.1). - dhcpd
14: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: ** Ignoring requests on ftp0. If this is not what - dhcpd
15: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: you want, please write a subnet declaration - dhcpd
16: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: in your dhcpd.conf file for the network segment - dhcpd
17: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: to which interface ftp0 is attached. ** - dhcpd
18: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: - dhcpd
19: 2011 Jan 21 17:17:21 VSG129-2 %LOCAL7-3-SYSTEM_MSG: Not configured to listen on any interfaces! - dhcpd
20: 2011 Jan 21 17:17:21 VSG129-2 %USER-2-SYSTEM_MSG: CLIS: loading cmd files begin - clis
21: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: redun_platform_ioctl : Entered - kernel
22: 2011 Jan 21 17:17:21 VSG129-2 %KERN-3-SYSTEM_MSG: redun_platform_ioctl : Host name is set VSG129-2 - kernel
23: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: - dhcpd
24: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: No subnet declaration for ftp0 (127.2.1.1). - dhcpd
25: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: ** Ignoring requests on ftp0. If this is not what - dhcpd
26: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: you want, please write a subnet declaration - dhcpd
27: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: in your dhcpd.conf file for the network segment - dhcpd
28: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: to which interface ftp0 is attached. ** - dhcpd
29: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: - dhcpd
30: 2011 Jan 21 17:17:23 VSG129-2 %LOCAL7-3-SYSTEM_MSG: Not configured to listen on any interfaces! - dhcpd
```

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```

31: 2011 Jan 21 17:17:23 VSG129-2 %MODULE-5-ACTIVE_SUP_OK: Supervisor 1 is activ
e (serial: T5056BB0038)
32: 2011 Jan 21 17:17:23 VSG129-2 %PLATFORM-5-MOD_STATUS: Module 1 current-statu
s is MOD_STATUS_ONLINE/OK
33: 2011 Jan 21 17:17:26 VSG129-2 %USER-2-SYSTEM_MSG: CLIS: loading cmd files en
d - clis
34: 2011 Jan 21 17:17:26 VSG129-2 %USER-2-SYSTEM_MSG: CLIS: init begin - clis
35: 2011 Jan 21 17:17:44 VSG129-2 %USER-2-SYSTEM_MSG: Invalid feature name eth-p
ort-sec - clis
36: 2011 Jan 21 17:18:00 VSG129-2 %POLICY_ENGINE-5-POLICY_ACTIVATE_EVENT: Policy
pl is activated by profile spl
37: 2011 Jan 21 17:18:00 VSG129-2 %IM-5-IM_INTF_STATE: mgmt0 is DOWN in vdc 1
38: 2011 Jan 21 17:18:00 VSG129-2 %IM-5-IM_INTF_STATE: mgmt0 is UP in vdc 1
39: 2011 Jan 21 17:18:00 VSG129-2 %IM-5-IM_INTF_STATE: data0 is DOWN in vdc 1
40: 2011 Jan 21 17:18:00 VSG129-2 %IM-5-IM_INTF_STATE: data0 is UP in vdc 1
41: 2011 Jan 21 17:18:00 VSG129-2 %POLICY_ENGINE-5-POLICY_COMMIT_EVENT: Commit o
peration SUCCESSFUL
42: 2011 Jan 21 17:18:00 VSG129-2 %VDC_MGR-2-VDC_ONLINE: vdc 1 has come online
43: 2011 Jan 24 12:53:47 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.70.216.167@pts/1
44: 2011 Feb 7 16:30:00 VSG129-2 %AUTHPRIV-3-SYSTEM_MSG: pam_aaa:Authentication
failed for user admin from 171.71.29.84 - sshd[7496]
45: 2011 Feb 9 18:41:38 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 10.21.84.66@pts/10
46: 2011 Feb 14 14:15:31 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/15
47: 2011 Feb 14 15:58:21 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/15
48: 2011 Feb 14 16:34:25 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/15
49: 2011 Feb 14 18:38:57 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/16
50: 2011 Feb 17 20:18:55 VSG129-2 %AUTHPRIV-3-SYSTEM_MSG: pam_aaa:Authentication
failed for user admin from 10.21.144.180 - sshd[23785]
51: 2011 Feb 18 15:14:03 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/22
52: 2011 Feb 21 13:16:43 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/26
53: 2011 Feb 21 14:08:23 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/26
54: 2011 Feb 22 11:47:27 VSG129-2 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from
vty by admin on 171.71.29.84@pts/28
vsg#

```

#### Related Commands

Command	Description
show event-log	Displays the event log.

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## show ntp

To display NTP information, use the **show ntp** command.

**show ntp** [**internal** | **peer-status** | **peers** | **rts-update** | **source** | **statistics** | **timestamp-status**]

Syntax Description	
<b>internal</b>	(Optional) Displays internal NTP information.
<b>peer-status</b>	(Optional) Displays the status of all the peers.
<b>peers</b>	(Optional) Displays all the peers.
<b>rts-update</b>	(Optional) Displays the status of RTS.
<b>source</b>	(Optional) Displays the source IP address.
<b>statistics</b>	(Optional) Displays NTP statistics.
<b>timestamp-status</b>	(Optional) Displays the status of the timestamp check.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show ntp** 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 local NTP statistics:

```
VSG129-2# show ntp statistics local
system uptime:          2669747
time since reset:      2669747
old version packets:   0
new version packets:  10
unknown version number: 0
bad packet format:    0
packets processed:    0
```

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```
bad authentication:    0
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show clock</b>	Displays the time.

---

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## show password

To enable the password strength check, use the **show password** command.

**show password strength-check**

Syntax Description	strength-check	Checks the strength of the password.
--------------------	----------------	--------------------------------------

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

Command Modes	EXEC Global configuration
---------------	------------------------------

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

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

Usage Guidelines	<p>You can use the following operators with the <b>show password</b> command:</p> <ul style="list-style-type: none"> <li>&gt;—Redirects the output to a file.</li> <li>&gt;&gt;—Redirects the output to a file in append mode.</li> <li> —Pipes the command output to a filter.</li> </ul>
------------------	--

Examples	<p>This example shows how to enable password strength check:</p>
----------	--

```
vsg# show password strength-check
Password strength check enabled
vsg#
```

Related Commands	Command	Description
	show aaa	Display authentication and authorization information.

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## show platform internal

To display platform manager information, use the **show platform internal** command.

**show platform** { **all** | **errors** | **event-history** | **info** | **mem-stats** | **msgs** }

Syntax Description		
<b>all</b>		Displays platform information.
<b>errors</b>		Displays the platform manager error log.
<b>event-history</b>		Displays platform manager event history.
<b>info</b>		Displays platform manager internal information.
<b>mem-stats</b>		Displays platform manager memory allocation statistics.
<b>msgs</b>		Displays platform manager message logs.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display platform manager memory statistics:

```
VSG129-2# show platform internal mem-stats
Inside pfm_cli_show_memstats
sending mts msg 18
```

```
Private Mem stats for UUID : Malloc track Library(103) Max types: 5
-----
```

■ **show platform internal**

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```

Curr alloc: 414 Curr alloc bytes: 19803(19k)

Private Mem stats for UUID : Non mtrack users(0) Max types: 81
-----
Curr alloc: 149 Curr alloc bytes: 1322797(1291k)

Private Mem stats for UUID : libsdwrap(115) Max types: 22
-----
Curr alloc: 11 Curr alloc bytes: 1448(1k)

Private Mem stats for UUID : Associative_db library(175) Max types: 14
-----
Curr alloc: 6 Curr alloc bytes: 200(0k)

Private Mem stats for UUID : Event sequence library(158) Max types: 4
-----
Curr alloc: 0 Curr alloc bytes: 0(0k)

Private Mem stats for UUID : Associative_db utils library(174) Max types: 4
-----
Curr alloc: 0 Curr alloc bytes: 0(0k)

Private Mem stats for UUID : libfsrv(404) Max types: 11
-----
Curr alloc: 0 Curr alloc bytes: 0(0k)

Private Mem stats for UUID : FSM Utils(53) Max types: 68
-----
Curr alloc: 136 Curr alloc bytes: 7760(7k)

Private Mem stats for UUID : Platform Manager(24) Max types: 25
-----
Curr alloc: 0 Curr alloc bytes: 0(0k)

Curr alloc: 716 Curr alloc bytes: 1352008 (1320k)
vsg#

```

#### Related Commands

Command	Description
<b>show system internal mem-alerts-log</b>	Displays the memory alert log.



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## show policy-engine

To display policy engine statistics, use the **show policy-engine** command.

```
show policy engine {policy-name | stats}
```

Syntax Description		
	<i>policy-name</i>	Name of the policy engine.
	<b>stats</b>	Displays policy engine statistics.

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

Command Modes	EXEC Global configuration
---------------	------------------------------

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

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

Usage Guidelines	You can use the following operators with the <b>show policy-engine</b> 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 policy engine statistics:
----------	---

```
vsg# show policy-engine stats

Policy Match Stats:

p1           :      30378
  r1         :      30378 (Permit)
  NOT_APPLICABLE :      0 (Drop)

vsg#
```

Related Commands	Command	Description
	<b>policy</b>	Configures a policy.

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## show processes

To display processes, use the **show processes** command.

```
show processes [cpu | log | memory | vdc]
```

Syntax Description	cpu	(Optional) Displays information about CPU processes.
	log	(Optional) Displays information about process logs.
	memory	(Optional) Displays information about memory processes.
	vdc	(Optional) Displays information about VDC processes.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display information about memory processes:

```
vsg(config)# show processes memory
```

PID	MemAlloc	MemLimit	MemUsed	StackBase/Ptr	Process
1	147456	0	1441792	bffffe60/bffff950	init
2	0	0	0	0/0	ksoftirqd/0
3	0	0	0	0/0	desched/0
4	0	0	0	0/0	events/0
5	0	0	0	0/0	khelper

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```

10          0 0          0          0/0          kthread
18          0 0          0          0/0          kblockd/0
35          0 0          0          0/0          khubd
188         0 0          0          0/0          pdflush
189         0 0          0          0/0          pdflush
190         0 0          0          0/0          kswapd0
191         0 0          0          0/0          aio/0
776         0 0          0          0/0          kseriod
823         0 0          0          0/0          kide/0
833         0 0          0          0/0          ata/0
837         0 0          0          0/0          scsi_eh_0
1175        0 0          0          0/0          kjournald
1180        0 0          0          0/0          kjournald
1740        0 0          0          0/0          kjournald
1747        0 0          0          0/0          kjournald
1976        155648 0          1536000      bffffdb0/bffffcb0 portmap
1989         0 0          0          0/0          nfsd
1990         0 0          0          0/0          nfsd
1991         0 0          0          0/0          nfsd
1992         0 0          0          0/0          nfsd
1993         0 0          0          0/0          nfsd
1994         0 0          0          0/0          nfsd
1995         0 0          0          0/0          nfsd
1996         0 0          0          0/0          nfsd
1997         0 0          0          0/0          lockd
1998         0 0          0          0/0          rpciod
2003        180224 0          1642496      bffffd80/bffffb60 rpc.mountd
2009        159744 0          1601536      bffffda0/bffffb10 rpc.statd
2036        2551808 0          15540224     bffffd40/bffffed20 sysmgr
2319         0 0          0          0/0          mping-thread
2320         0 0          0          0/0          mping-thread
2336         0 0          0          0/0          stun_kthread
2337         0 0          0          0/0          stun_arp_mts_kt
2338         0 0          0          0/0          stun_packets_re
2373         0 0          0          0/0          redun_kthread
2374         0 0          0          0/0          redun_timer_kth
2513         0 0          0          0/0          sf_rdn_kthread
2514        364544 214619750    69095424     bffffa40/bffff8b0 xinetd
2515        421888 95819750     68964352     bffffa70/bffff8a0 tftpd
2516        23015424 125824371    106741760    bffffa40/bffffe73c syslogd
2517        933888 109213561    74809344     bffffa80/bffffe850 sdwrapd
2519        4120576 0            81752064     bffffa70/bffff79e0 platform
2524         0 0          0          0/0          ls-notify-mts-t
2537        282624 92591910     74170368     bffffa70/bffffe058 pfm_dummy
2545        155648 0            1441792      bffffa60/bffff988 klogd
2552        2109440 393881241    78864384     bffffa80/bffff278 vshd
2553        1073152 95385382     76709888     bffffa80/bffffe4d0 stun
2554        2732032 367819865    144842752    bffffa30/bffff690 smm
2555        1155072 165002041    75182080     bffffa50/bffffe4b0 session-mgr
2556        479232 135244736    73154560     bffffa40/bffff770 psshelper
2557        212992 96888422     69488640     bffff9f0/bffffe680 lmgrd
2558        528384 91650240     73543680     bffffa60/bffff5f8 licmgr
2559        512000 92225126     78594048     bffffa90/bffff260 fs-daemon
2560        397312 85133312     72286208     bffffa60/bffff3690 feature-mgr
2561        315392 85106278     72122368     bffffa70/bffff840 confcheck
2562        958464 92785651     74874880     bffffa60/bffffe910 capability
2563        479232 135244736    73154560     bffffa20/bffff750 psshelper_gsvc
2573        217088 0            2572288      bffff9c0/bffff820 cisco
2576        7733248 664149376    106373120    bffffa30/bffff3e0 clis
2583        2248704 372636352    103321600    bffffa50/bffffd960 port-profile
2585        274432 85254963     72257536     bffffa60/bffff830 xmlma
2586        1245184 95083507     76578816     bffffa60/bffffe2dc vnm_pa_intf
2587        2146304 115889523    76902400     bffffa60/bffffe060 vmm
2588        708608 127975372    76795904     bffffa70/bffffe9c0 vdc_mgr

```

show processes

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2589	634880	109440179	84406272	bffffaa0/bffff3c0	ttyd
2590	450560	78402579	70279168	bffffa70/bffff530	sysinfo
2591	438272	91884531	73687040	bffffa80/bffff490	sksd
2593	610304	91614195	73551872	bffffa70/bffff234	res_mgr
2594	1028096	93695782	75186176	bffffa80/bffffe4b0	plugin
2595	3956736	375542464	94433280	bffffa50/bffff4f0	npacl
2596	811008	175709177	74731520	bffffa60/bffffbf80	mvsh
2597	2596864	109250944	79581184	bffffa80/bffffcf70	module
2598	3489792	182622105	87179264	bffffa80/bffffd980	fwm
2599	1175552	100089228	81141760	bffffa60/bffffe490	evms
2600	1015808	93312806	74964992	bffffa60/bffffe4a0	evmc
2601	581632	92554035	84045824	bffffa90/bffff470	core-dmon
2602	454656	92722572	74289152	bffffa80/bffff3b0	bootvar
2603	9854976	367171059	93200384	bffffa60/bffff4c0	ascii-cfg
2604	647168	87422156	74403840	bffffa40/bffffe678	securityd
2605	1048576	98226585	84234240	bffffa60/bffffdce0	cert_enroll
2606	495616	87332044	75096064	bffffa60/bffffe850	aaa
2614	5029888	369338252	86528000	bffffa50/bffff960	l3vm
2615	4288512	366242905	106196992	bffffa50/bffff950	u6rib
2616	6340608	367112486	129155072	bffffa50/bffff8c0	urib
2617	1568768	139989132	77787136	bffffa70/bffffe680	ExceptionLog
2618	3047424	116793318	86609920	bffffa80/bffffe490	ifmgr
2619	806912	87336550	74678272	bffffa80/bffffe8c0	tcap
2623	5693440	262289420	137621504	bffffa10/bffffd8f0	snmpd
2636	163840	293819750	68661248	bffffa20/bffff018	PMon
2637	3104768	256175321	84361216	bffffa50/bffffe210	aclmgr
2662	9428992	373095923	151752704	bffffa50/bffff530	adjmgr
2676	4755456	366648409	128327680	bffffa50/bffff920	arp
2677	6037504	369130995	110952448	bffffa40/bffff2c8	icmpv6
2678	53452800	584746060	201703424	bffffa20/bffff490	netstack
2751	1368064	229098848	124534784	bffffa40/bffffdac0	radius
2752	233472	98996198	69996544	bffffa30/bffff8c8	ip_dummy
2753	233472	98996198	69996544	bffffa30/bffff8c8	ipv6_dummy
2754	1826816	165916537	126001152	bffffa50/bffffeb30	ntp
2755	233472	98996198	69996544	bffffa30/bffff8c8	pktmgr_dummy
2756	233472	98996198	69996544	bffffa30/bffff8c8	tcpudp_dummy
2758	1097728	202319744	126873600	bffffa60/bffffed90	cdp
2762	1024000	109019750	80056320	bffff990/bffffec90	dcos-xinetd
2764	729088	0	12656640	bffffef0/bffff220	ntpd
2881	1409024	113508736	83517440	bffffa80/bffffe0a0	vsim
2882	2785280	366824128	90828800	bffffa60/bffffdbb0	ufdm
2883	1273856	365913996	140460032	bffffa60/bffffd970	sal
2884	2342912	107612243	84082688	bffffa60/bffffd940	pltfm_config
2885	4083712	206235110	88436736	bffffa50/bffffd970	monitor
2886	3870720	317199308	90644480	bffffa50/bffffdf80	ipqosmgr
2887	7446528	504510195	132648960	bffffa50/bffff980	igmp
2888	5025792	186650112	89972736	bffffa40/bffffd8f0	eth-port-sec
2889	2170880	199314508	82145280	bffffa60/bffffe220	copp
2890	2453504	118573030	87961600	bffffa40/bffffd730	eth_port_channel
2891	8450048	156970739	94244864	bffffa50/bffffe990	vlan_mgr
2892	14442496	309585689	102936576	bffffa60/bffffdb40	ethpm
2933	1544192	204094950	85684224	bffffa60/bffffe480	msp
2936	1048576	93330828	74928128	bffffa50/bffffe480	vsn_service_mgr
2937	169234432	1191148288	251592704	bffffa60/bffffe48c	sp
2938	10510336	651213798	103919616	bffffa40/bffffe89c	policy_engine
2939	3485696	633948339	85774336	bffffa40/bffffe24c	inspect
3006	159744	0	1441792	bffffdc0/bffffc58	getty
3007	172032	0	1527808	bffffd90/bffffc28	getty
3019	1142784	0	14630912	bffffa30/bffffe810	dcos_sshd
3021	1167360	0	31797248	bffffdc0/bffffaa0	vsh
28520	1142784	0	14630912	bffffa30/bffffe810	dcos_sshd
28521	1167360	0	31797248	bffffdc0/bffffa7c8	vsh
30327	155648	0	1712128	bffffcf0/bffffb4c	more
30328	1167360	0	31830016	bffffdc0/bffffa2d8	vsh

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```
30329          0  0          0          bffffa10/bffffef28  ps
```

```
All processes: MemAlloc = 445857792  
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<code>show system resources</code>	Displays memory usage.

---

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## show redundancy status

To display redundancy status, use the **show redundancy status** command.

**show redundancy status**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show redundancy** 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 redundancy status:

```
vsg# show redundancy status
Redundancy role
-----
      administrative:  standalone
      operational:    standalone

Redundancy mode
-----
      administrative:  HA
      operational:    None

This supervisor (sup-1)
-----
      Redundancy state:  Active
      Supervisor state:  Active
      Internal state:   Active with no standby
```

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```

Other supervisor (sup-2)
-----
Redundancy state:   Not present

Supervisor state:   N/A
Internal state:     N/A

System start time:   Fri Jan 21 15:45:28 2011

System uptime:       32 days, 1 hours, 46 minutes, 2 seconds
Kernel uptime:       32 days, 0 hours, 14 minutes, 45 seconds
Active supervisor uptime: 32 days, 1 hours, 45 minutes, 20 seconds
vsg#

```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show system redundancy status</b>	Displays redundancy status.

---

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## show resource

To display resources, use the **show resource** command.

```
show resource [internal | m4route-mem | m6route-mem | monitor-session | port-channel |
u4route-mem | u6route-mem | vlan | vrf ]
```

Syntax	Description
<b>internal</b>	(Optional) Displays resource manager information
<b>m4route-mem</b>	(Optional) Displays m4route-mem information.
<b>m6route-mem</b>	(Optional) Displays m6route-mem information.
<b>monitor-session</b>	(Optional) Displays monitor session information.
<b>port-channel</b>	(Optional) Displays port channel information.
<b>u4route-mem</b>	(Optional) Displays u4route-mem information.
<b>u6route-mem</b>	(Optional) Displays u6route-mem information.
<b>vlan</b>	(Optional) Displays VLAN information.
<b>vrf</b>	(Optional) Displays VRF information.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show resource** 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 resources:

```
vsg# show resource
```

```
Resource           Min           Max           Used           Unused          Avail
```



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```

-----
vlan                16      2049      2       14      2047
monitor-session    0         2         0        0         2
vrf                 16      8192      2       14      8190
port-channel        0         768       0        0       768
u4route-mem         32        32        1       31        31
u6route-mem         16        16        1       15        15
m4route-mem         58        58        0       58        58
m6route-mem         8         8         0        8         8

```

vsg#

#### Related Commands

Command	Description
<b>show system resources</b>	Displays system resources.

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## show role

To show user role information, use the **show role** command.

```
show role [feature | name | pending | pending-diff | session | status]
```

Syntax Description	feature	(Optional) Displays role features.
	<b>name</b>	(Optional) Specifies the role name.
	<b>pending</b>	(Optional) Displays uncommitted role configurations.
	<b>pending-diff</b>	(Optional) Displays uncommitted role configurations.
	<b>session</b>	(Optional) Displays role session status.
	<b>status</b>	(Optional) Displays role status.

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

Command Modes	EXEC Global configuration
---------------	------------------------------

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

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

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

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

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### Examples

This example shows how to display the details of the network-admin role:

```
vsg# show role name network-admin

Role: network-admin
Description: Predefined network admin role has access to all commands
on the switch
-----
Rule      Perm      Type      Scope      Entity
-----
1         permit   read-write
vsg#
```

### Related Commands

Command	Description
show users	Displays users.

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## show running-config

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

```
show running-config [aaa | all | am | arp | cdp | cert-enroll | diff | exclude | expand-port-profile
| icmpv6 | igmp | interface | ip | l3vm | monitor | ntp | object-group group-name | policy
policy-name | rule rule-name | security | snmp | vdc-all | vlan | vshd | zone zone-name]
```

### Syntax Description

<b>aaa</b>	(Optional) Displays the AAA configuration.
<b>all</b>	(Optional) Displays the current operating configuration with defaults.
<b>am</b>	(Optional) Displays AM information.
<b>arp</b>	(Optional) Displays ARP information.
<b>cdp</b>	(Optional) Displays the CDP configuration.
<b>cert-enroll</b>	(Optional) Displays the certificates configuration.
<b>diff</b>	(Optional) Displays the difference between running configuration and startup configuration.
<b>exclude</b>	(Optional) Excludes displaying specified configurations when performing the <b>show running-config</b> command.
<b>expand-port-profile</b>	(Optional) Displays the port profile.
<b>icmpv6</b>	(Optional) Displays ICMPv6 information.
<b>igmp</b>	(Optional) Displays IGMP information.
<b>interface</b>	(Optional) Displays interface configurations.
<b>ip</b>	(Optional) Displays IP information.
<b>l3vm</b>	(Optional) Displays Layer 3 Virtual Machine information.
<b>monitor</b>	(Optional) Configures Ethernet SPAN sessions.
<b>ntp</b>	(Optional) Displays NTP information.
<b>object-group</b>	(Optional) Displays the object-group configuration.
<i>group-name</i>	(Optional) Object group name.
<b>policy</b>	(Optional) Displays the policy configuration.
<i>policy-name</i>	(Optional) Policy name.
<b>rule</b>	(Optional) Displays the rule configuration.
<i>rule-name</i>	(Optional) Rule name.
<b>security</b>	(Optional) Displays the security configuration.
<b>snmp</b>	(Optional) Displays the SNMP configuration.
<b>vdc-all</b>	(Optional) Displays the VDC configuration.
<b>vlan</b>	(Optional) Displays the VLAN configuration.
<b>vshd</b>	(Optional) Displays the running configuration for VSHD.
<b>zone</b>	(Optional) Displays the running configuration for zones.
<i>zone-name</i>	(Optional) Zone name.

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**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.2(1)VSG1(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.

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

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

```
vsg# show running-config

!Command: show running-config
!Time: Wed Feb 23 11:23:41 2011

version 4.2(1)VSG1(1)
no feature telnet
no feature http-server

username adminbackup password 5 $1$0ip/C5Ci$oOdx7oJS1BCFpNRmQK4na. role network
-operator
username admin password 5 $1$nDBYx.EE$aOQn09aSYpclPxcZM9CS3. role network-admin
username vsnbetauser password 5 $1$WBkomPFW$RlOqE7fU2ZS/D4yd7bx/L. role network
-admin

banner motd #Nexus VSN#

ssh key rsa 2048
ip domain-lookup
ip domain-lookup
switchname VSG129-2
snmp-server user admin auth md5 0x49381b1f90fcb52a70b55a0bbf05d032 priv 0x49381b
1f90fcb52a70b55a0bbf05d032 localizedkey engineID 128:0:0:9:3:0:0:0:0:0
snmp-server user vsnbetauser auth md5 0x272e8099cab7365fd1649d351b953884 priv 0x
272e8099cab7365fd1649d351b953884 localizedkey engineID 128:0:0:9:3:0:0:0:0:0

vrf context management
```

■ show running-config

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```

ip route 0.0.0.0/0 10.193.72.1
vlan 1
port-channel load-balance ethernet source-mac
port-profile default max-ports 32

vdc VSG129-2 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 10.193.73.138/21

interface data0
  ip address 192.168.129.2/24
  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
  ha-pair id 1292

security-profile sp1
  policy p1
  rule r1
    action 1 permit
  policy p1
    rule r1 order 10
vnm-policy-agent
  registration-ip 0.0.0.0
  shared-secret *****
  log-level

vsg#

```

---

**Related Commands**

Command	Description
<b>show startup-config</b>	Displays the startup configuration.

---

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## show service-path connection

To display service path connection information, use the **show service-path connection** command.

**show service-path connection** [**svs-domain-id** *domain-id* [**module** *module-number*]]

Syntax Description		
<b>svs-domain-id</b>	(Optional) Specifies the SVS domain.	
<i>domain-id</i>	Domain identification number. The range is from 1 to 4095.	
<b>module</b>	(Optional) Specifies the module.	
<i>module-number</i>	Module number. The range is from 3 to 66.	

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show service-path connection** 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 service path connections:

```
vsg# show service-path connection
SVS Domain    41  Module    3
  udp vlan 53 src 100.1.1.90:138 dst 100.255.255.255:138
  tcp vlan 53 src 100.1.1.70:33050 dst 100.1.1.80:80
  tcp vlan 53 src 100.1.1.70:33068 dst 100.1.1.80:80
  tcp vlan 53 src 100.1.1.80:33041 dst 100.1.1.70:80
  tcp vlan 53 src 100.1.1.71:33028 dst 100.1.1.80:80
  tcp vlan 53 src 100.1.1.72:33056 dst 100.1.1.80:80
  tcp vlan 53 src 100.1.1.73:33023 dst 100.1.1.80:80
VSG1#

vsg#
```

■ show service-path connection

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Related Commands	Command	Description
	show svcs	Displays SVS information.



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## show service-path statistics

To display service path statistics, use the **show service-path statistics** command.

**show service-path statistics** [*svs-domain-id domain-id* [**module** *module-number*]]

Syntax Description	svs-domain-id	(Optional) Specifies the SVS domain.
	<i>domain-id</i>	Domain identification number. The range is from 1 to 4095.
	<b>module</b>	(Optional) Specifies the module.
	<i>module-number</i>	Module number. The range is from 3 to 66.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show service-path connection** 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 service path statistics:

```
vsg# show service-path statistics
Input Packet          31056  Output Packet          31056
Active Flows          0
Flow Create           15520  Flow Destroy           15520
Input Packet Drop     0      Output Packet Drop    0
SP Packet Drop        0      Corrupted Packet      0
Input mode            Signal  Input mode change fail 0
Input signal mode     1      Input interrupt mode  0
PE Corrupted Packet   0      FTP Corrupted Packet  0
RSH Corrupted Packet  0      TFTP Corrupted Packet 0
Buffer Free Fail      0
Vpath Frag Packet     0      Vpath Inst Frag      0
```

■ show service-path statistics

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```

IPV4 Frag Packet          0  IPV4 Inst Frag          0
Aged Vpath Frag Packet    0  Vpath Frag Packet Drop  0
Aged IPV4 Frag Packet     0  IPV4 Frag Packet Drop   0
Bad Vpath Frag            0  Bad IPV4 Frag           0
Vpath Frag/Package Exceed 0  IPV4 Frag/Package Exceed 0
Total Frag Inst Exceed    0

SVS Domain    61  Module    3
  Input Packet 31056  Output Packet 31056
  Flow Create  15520  Flow Destroy  15520
  Packet Drop           0

vsg#

```

#### Related Commands

Command	Description
<b>show svcs</b>	Displays SVS information.

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## show snmp

To display SNMP information, use the **show snmp** command.

```
show snmp [community | context | engineID | group | host | internal | sessions | source-interface
          | trap | user]
```

Syntax Description		
<b>community</b>	(Optional)	Displays SNMP community strings.
<b>context</b>	(Optional)	Displays SNMP context mapping entries.
<b>engineID</b>	(Optional)	Displays the SNMP engineID.
<b>group</b>	(Optional)	Displays SNMP groups.
<b>host</b>	(Optional)	Displays SNMP hosts.
<b>internal</b>	(Optional)	Displays internal SNMP information.
<b>sessions</b>	(Optional)	Displays SNMP sessions.
<b>source-interface</b>	(Optional)	Displays the notifications source interface.
<b>trap</b>	(Optional)	Displays SNMP traps.
<b>user</b>	(Optional)	Displays SNMPv3 users.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show snmp** 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 SNMP users:

```
vsg# show snmp user
```

show snmp

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## SNMP USERS

User	Auth	Priv(enforce)	Groups
------	------	---------------	--------

NOTIFICATION TARGET USERS (configured for sending V3 Inform)			
--	--	--	--

User	Auth	Priv
------	------	------

admin (EngineID 128:0:0:9:3:0:0:0:0:0)	md5	des
---	-----	-----

vsnbetauser (EngineID 128:0:0:9:3:0:0:0:0:0)	md5	des
---	-----	-----

vsg#

## Related Commands

Command	Description
snmp-server	Configures the SNMP server.

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## show sockets

To display socket information, use the **show sockets** command.

**show sockets {client | connection | internal | statistics}**

Syntax	Description
<b>client</b>	Displays client socket information.
<b>connection</b>	Displays socket connections information.
<b>internal</b>	Displays internal socket information.
<b>statistics</b>	Displays socket statistics.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show sockets** 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 socket statistics:

```
vsg# show sockets statistics
TCP Received:
  43556 packets total
  0 checksum error, 0 bad offset, 0 too short, 0 MD5 error
  33557 packets (1428824 bytes) in sequence
  435 duplicate packets (8296 bytes)
  0 partially dup packets (0 bytes)
  141 out-of-order packets (7736 bytes)
  0 packets (0 bytes) with data after window
  1 packets after close
  0 window probe packets, 0 window update packets
  470 duplicate ack packets, 0 ack packets with unsent data
```

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```

    17669 ack packets (1759693 bytes)
TCP Sent:
    20950 total, 0 urgent packets
    20 control packets
    20057 data packets (1759592 bytes)
    5 data packets (736 bytes) retransmitted
    809 ack only packets
    0 window probe packets, 59 window update packets

TCP:
0 connections initiated, 129 connections accepted, 129 connections established
129 connections closed (including 107 dropped, 0 embryonic dropped)
4 total rxmt timeout, 0 connections dropped in rxmt timeout
40 keepalive timeout, 40 keepalive probe, 0 connections dropped in keepalive
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show interface</b>	Displays information about interfaces.

---

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## show ssh

To display SSH information, use the **show ssh** command.

```
show ssh {key | name | server}
```

Syntax Description	key	Displays the SSH keys.
	name	Displays the pre-established master SSH connections.
	server	Displays the status of SSH on the server.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**Supported User Roles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show ssh** 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 SSH keys:

```
vsg# show ssh key
*****
rsa Keys generated:Fri Oct  8 16:49:02 2010

ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAQEAtL6+T2oK41T1ed1Xus/eY6FChVxGdDA1T9B3pC06Mwst
6+Wh4Sw3Ibpoe2uIuZE9qZj1nKLMWkReu1o1XLCJlGG3QjkVUA2CMLYP6o/+fUoMZIPSyQFQk+3JwTFu
UR7uaa6OkATAr35unSnaHPKkYyv7C2S+I/H2nilY+Gbncv9D2tjjsFJIOMIeIa8w5EdedMSnxOYg9ynm
9rV+Jql48mvs1AKo23eSkzJT2grZu6z3d8DboiEHvrkPR/8Dwum9BXX7pM9p4813Dae51RuW92H/wRqs
v0u6Cyex6c6uE2f3jo4yU4tOMTCbyu2O+1Xz/AsmM+gUZ1CvxrHhjgHpqw==

bitcount:2048
fingerprint:
1d:1f:75:3c:6b:41:32:c8:0a:87:40:56:10:cb:2b:e9
*****
```

■ show ssh

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```
could not retrieve dsa key information
*****
vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show telnet</b>	Displays the telnet server configuration.

---



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## show startup-config

To display startup configurations, use the **show startup-config** command.

```
show startup-config [aaa | am | arp | cdp | cert-enroll | exclude | expand-port-profile | icmpv6 |
igmp | interface | ip | l3vm | log | monitor | ntp | security | snmp | vdc-all | vshd]
```

Syntax Description	
<b>aaa</b>	(Optional) Displays the AAA configuration.
<b>am</b>	(Optional) Displays AM information.
<b>arp</b>	(Optional) Displays ARP information.
<b>cdp</b>	(Optional) Displays the CDP configuration.
<b>cert-enroll</b>	(Optional) Displays the certificates configuration.
<b>diff</b>	(Optional) Displays the difference between running configuration and startup configuration.
<b>expand-port-profile</b>	(Optional) Displays the port profile.
<b>icmpv6</b>	(Optional) Displays ICMPv6 information.
<b>igmp</b>	(Optional) Displays IGMP information.
<b>interface</b>	(Optional) Displays interface configurations.
<b>ip</b>	(Optional) Displays IP information.
<b>l3vm</b>	(Optional) Displays Layer 3 Virtual Machine information.
<b>log</b>	(Optional) Displays the execution log of the latest ASCII startup configuration.
<b>monitor</b>	(Optional) Configures Ethernet SPAN sessions.
<b>ntp</b>	(Optional) Displays NTP information.
<b>security</b>	(Optional) Displays the security configuration.
<b>snmp</b>	(Optional) Displays the SNMP configuration.
<b>vdc-all</b>	(Optional) Displays the VDC configuration.
<b>vshd</b>	(Optional) Displays the running configuration for VSHD.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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### Usage Guidelines

You can use the following operators with the **show startup-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 startup configuration:

```
vsg# show startup-config
Sap 106 returned failure code:0x80480002

!Command: show startup-config
!Time: Wed Feb 23 12:52:55 2011
!Startup config saved at: Tue Nov 30 19:23:55 2010

version 4.2(1)VSG1(1)
ip domain-lookup
ip domain-lookup
switchname VSG129-2
snmp-server user admin auth md5 0x49381b1f90fcb52a70b55a0bbf05d032 priv 0x49381b
1f90fcb52a70b55a0bbf05d032 localizedkey engineID 128:0:0:9:3:0:0:0:0:0
snmp-server user vsnbetauser auth md5 0x272e8099cab7365fd1649d351b953884 priv 0x
272e8099cab7365fd1649d351b953884 localizedkey engineID 128:0:0:9:3:0:0:0:0:0

vrf context management
  ip route 0.0.0.0/0 10.193.72.1
vlan 1
port-channel load-balance ethernet source-mac
port-profile default max-ports 32

vdc VSG129-2 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 10.193.73.138/21

interface data0
  ip address 192.168.129.2/24
  ip address 192.168.129.2/24

interface data0
  ip address 192.168.129.2/24
  ip address 192.168.129.2/24
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
  ha-pair id 1292

security-profile sp1
  policy pl
rule r1
```

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```
action 1 permit
policy p1
  rule r1 order 10
vnm-policy-agent
  registration-ip 0.0.0.0
  shared-secret *****
  log-level

vsg#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show running-config</b>	Displays the running configuration.

---

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## show system

To displaysystem information, use the **show system** command.

```
show ssh { clis | cores | error-id | exception-info | internal | pss | redundancy | resources | standby
          | uptime }
```

### Syntax Description

<b>clis</b>	Displays the CLI server.
<b>cores</b>	Displays the core transfer option.
<b>error-id</b>	Displays system errors.
<b>exception-info</b>	Displays the exception log.
<b>internal</b>	Displays internal system information.
<b>pss</b>	Displays the most recent PSS shrink status.
<b>redundancy</b>	Displays redundancy status.
<b>resources</b>	Displays system resources.
<b>standby</b>	Displays the system standby manual boot option.
<b>uptime</b>	Displays how long the system has been up and running.

### Defaults

None

### Command Modes

EXEC  
Global configuration

### Supported User Roles

network-admin  
network-operator

### Command History

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

### Usage Guidelines

You can use the following operators with the **show system** command:

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

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---

**Examples**

This example shows how to display system resources:

```
vsg# show system resources
Load average:  1 minute: 0.22   5 minutes: 0.28   15 minutes: 0.12
Processes   :  245 total, 2 running
CPU states  :  0.0% user,   0.0% kernel,  100.0% idle
Memory usage: 1944668K total,  1041116K used,   903552K free
              71456K buffers,  398416K cache

vsg#
```

---

**Related Commands**

---

Command	Description
show hardware	Displays hardware information.

---

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## show tech-support

To display information about technical support, use the **show tech-support** command.

```
show tech-support [adjmgr | arp | bootvar | brief | cert-enroll | cli | clis | details | dhcp | epp |
ethport | ha | icmpv6 | im | include-time | internal | ip | ipv6 | l3vm | module | npacl | ntp |
pktmgr | platform | port | port-channel | routing | snmp | sockets | sys-mgr | time-optimized
| vdc | vsd | xml]
```

Syntax	Description
<b>adjmgr</b>	(Optional) Display Adj manager information.
<b>arp</b>	(Optional) Display ARP information.
<b>bootvar</b>	(Optional) Displays detailed information about boot variables.
<b>brief</b>	(Optional) Displays a system summary.
<b>cert-enroll</b>	(Optional) Displays certificate information.
<b>cli</b>	(Optional) Displays information about the parser.
<b>clis</b>	(Optional) Displays information about the CLI server.
<b>details</b>	(Optional) Displays detailed information about troubleshooting.
<b>dhcp</b>	(Optional) Displays detailed information about DHCP.
<b>epp</b>	(Optional) Displays detailed information about EPP.
<b>ethport</b>	(Optional) Displays detailed information about the Eth port.
<b>ha</b>	(Optional) Displays detailed information about High Availability.
<b>icmpv6</b>	(Optional) Displays information about ICMPv6.
<b>im</b>	(Optional) Displays detailed information about IM.
<b>include-time</b>	(Optional) Displays the time it took to gather technical support information.
<b>internal</b>	(Optional) Displays internal troubleshooting information.
<b>ip</b>	(Optional) Displays IP information.
<b>ipv6</b>	(Optional) Displays IPv6 information.
<b>l3vm</b>	(Optional) Display VRF information.
<b>module</b>	(Optional) Displays information about modules.
<b>npacl</b>	(Optional) Displays information about NPACL.
<b>ntp</b>	(Optional) Displays information about NTP.
<b>pktmgr</b>	(Optional) Displays packet manager information.
<b>platform</b>	(Optional) Displays platform information.
<b>port</b>	(Optional) Displays port manager information.
<b>port-channel</b>	(Optional) Displays port channel information.
<b>routing</b>	(Optional) Displays information about routing.
<b>snmp</b>	(Optional) Displays information about SNMP.
<b>sockets</b>	(Optional) Displays information about sockets.
<b>sys-mgr</b>	(Optional) Displays information about system manager.
<b>time-optimized</b>	(Optional) Gather tech-support faster, requires more memory & disk space
<b>vdc</b>	(Optional) Displays information about VDC.

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<b>vsd</b>	(Optional) Displays information about VSD.
<b>xml</b>	(Optional) Displays information about XML.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)VSG1(1)	This command was introduced.

**Usage Guidelines** You can use the following operators with the **show tech-support** command:

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

When you execute a show command that displays a long list of data, you can press **Ctrl+c** at any time to exit that list.

**Examples** This example shows how to display HA information:

```
VSG129-2# show tech-support ha
`show system internal sysmgr event-history msgs`
1) Event:E_MTS_RX, length:60, at 12198 usecs after Thu Feb 24 11:38:48 2011
   [REQ] Opc:MTS_OPC_SDWRAP_DEBUG_DUMP(1530), Id:0X02ECF618, Ret:SUCCESS
   Src:0x00000101/39469, Dst:0x00000101/3, Flags:None
   HA_SEQNO:0X00000000, RRtoken:0x02ECF618, Sync:UNKNOWN, Payloadsize:216
   Payload:
   0x0000: 01 00 2f 74 6d 70 2f 64 62 67 64 75 6d 70 31 32

2) Event:E_MTS_RX, length:44, at 952704 usecs after Thu Feb 24 11:38:47 2011
   [REQ] Opc:MTS_OPC_SYSMGR_ENNVAR_NON_SYSMGR_SRV_GET(2653), Id:0X02ECF601, Ret
   :SUCCESS
   Src:0x00000101/39467, Dst:0x00000101/3, Flags:None
   HA_SEQNO:0X00000000, RRtoken:0x02ECF601, Sync:UNKNOWN, Payloadsize:0

3) Event:E_MTS_RX, length:44, at 504521 usecs after Thu Feb 24 11:38:39 2011
   [REQ] Opc:MTS_OPC_SYSMGR_ENNVAR_NON_SYSMGR_SRV_GET(2653), Id:0X02ECF494, Ret
   :SUCCESS
   Src:0x00000101/39441, Dst:0x00000101/3, Flags:None
   HA_SEQNO:0X00000000, RRtoken:0x02ECF494, Sync:UNKNOWN, Payloadsize:0

4) Event:E_MTS_RX, length:60, at 824041 usecs after Thu Feb 24 11:38:18 2011
```

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```
[REQ] Opc:MTS_OPC_SYSMGR_CLI_SHOW_INTERNAL_STATE(1386), Id:0X02ECF0FB, Ret:S
UCCESS
Src:0x00000101/39438, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0FB, Sync:UNKNOWN, Payloadsize:624
Payload:
0x0000: 00 00 00 01 00 00 02 00 00 00 00 00 00 00 00 00

5) Event:E_MTS_RX, length:60, at 823997 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_CLI_SHOW_REDUNDANCY_STATUS(2499), Id:0X02ECF0F9, Re
t:SUCCESS
Src:0x00000101/39438, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0F9, Sync:UNKNOWN, Payloadsize:112
Payload:
0x0000: 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00 00

6) Event:E_MTS_RX, length:44, at 823918 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_SCOPE_DONE(2476), Id:0X02ECF0F7, Ret:SUCCESS
Src:0x00000101/39438, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0F7, Sync:UNKNOWN, Payloadsize:0

7) Event:E_MTS_RX, length:60, at 819079 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_CLI_SHOW_INTERNAL_STATE(1386), Id:0X02ECF0F5, Ret:S
UCCESS
Src:0x00000101/39437, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0F5, Sync:UNKNOWN, Payloadsize:624
Payload:
0x0000: 00 00 00 01 00 00 02 00 00 00 00 00 00 00 00 00

8) Event:E_MTS_RX, length:60, at 819034 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_CLI_SHOW_REDUNDANCY_STATUS(2499), Id:0X02ECF0F3, Re
t:SUCCESS
Src:0x00000101/39437, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0F3, Sync:UNKNOWN, Payloadsize:112
Payload:
0x0000: 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00 00

9) Event:E_MTS_RX, length:44, at 818960 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_SCOPE_DONE(2476), Id:0X02ECF0F1, Ret:SUCCESS
Src:0x00000101/39437, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0F1, Sync:UNKNOWN, Payloadsize:0

10) Event:E_MTS_RX, length:60, at 814417 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_CLI_SHOW_INTERNAL_STATE(1386), Id:0X02ECF0EF, Ret:S
UCCESS
Src:0x00000101/39436, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0EF, Sync:UNKNOWN, Payloadsize:624
Payload:
0x0000: 00 00 00 01 00 00 02 00 00 00 00 00 00 00 00 00

11) Event:E_MTS_RX, length:60, at 814364 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_CLI_SHOW_REDUNDANCY_STATUS(2499), Id:0X02ECF0ED, Re
t:SUCCESS
Src:0x00000101/39436, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0ED, Sync:UNKNOWN, Payloadsize:112
Payload:
0x0000: 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00 00

12) Event:E_MTS_RX, length:44, at 814283 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_SCOPE_DONE(2476), Id:0X02ECF0EB, Ret:SUCCESS
Src:0x00000101/39436, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECF0EB, Sync:UNKNOWN, Payloadsize:0

13) Event:E_MTS_RX, length:44, at 800624 usecs after Thu Feb 24 11:38:18 2011
[REQ] Opc:MTS_OPC_SYSMGR_ENNVAR_NON_SYSMGR_SRV_GET(2653), Id:0X02ECF0D3, Ret
```



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```
:SUCCESS
  Src:0x00000101/39435, Dst:0x00000101/3, Flags:None
  HA_SEQNO:0X00000000, RRtoken:0x02ECF0D3, Sync:UNKNOWN, Payloadsize:0

14) Event:E_MTS_RX, length:48, at 37941 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAC3, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA4B, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

15) Event:E_MTS_RX, length:48, at 37931 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAC2, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA4A, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

16) Event:E_MTS_RX, length:48, at 37921 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAC1, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA49, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

17) Event:E_MTS_RX, length:48, at 37910 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAC0, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA48, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

18) Event:E_MTS_RX, length:48, at 37900 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEABF, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA47, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

19) Event:E_MTS_RX, length:48, at 37890 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEABE, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA46, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

20) Event:E_MTS_RX, length:48, at 37880 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEABD, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA45, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

21) Event:E_MTS_RX, length:48, at 37870 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEABC, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA44, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000: 00 00 00 00

22) Event:E_MTS_RX, length:48, at 37860 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEABB, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA43, Sync:UNKNOWN, Payloadsize:4
```

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```

Payload:
0x0000:  00 00 00 00

23) Event:E_MTS_RX, length:48, at 37850 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEABA, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA42, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000:  00 00 00 00

24) Event:E_MTS_RX, length:48, at 37840 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAB9, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA41, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000:  00 00 00 00

25) Event:E_MTS_RX, length:48, at 37830 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAB8, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA40, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000:  00 00 00 00

26) Event:E_MTS_RX, length:48, at 37820 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAB7, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA3F, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000:  00 00 00 00

27) Event:E_MTS_RX, length:48, at 37808 usecs after Thu Feb 24 11:37:00 2011
[RSP] Opc:MTS_OPC_EEM_CFG_SYNC(1701), Id:0X02ECEAB6, Ret:SUCCESS
Src:0x00000101/342, Dst:0x00000101/3, Flags:None
HA_SEQNO:0X00000000, RRtoken:0x02ECEA3E, Sync:UNKNOWN, Payloadsize:4
Payload:
0x0000:  00 00 00 00

vsg#

```

---

**Related Commands**

Command	Description
<b>show debug</b>	Displays debug flags.

---

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## show telnet server

To display the status of telnet services, use the **show telnet** command.

**show telnet server**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show telnet server** 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 status of telnet services:

```
vsg# show telnet server
telnet service not enabled
vsg#
```

Related Commands	Command	Description
	show http	Displays the status of HTTP services.

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## show terminal

To display information about the terminal, use the **show terminal** command.

**show terminal [internal]**

<b>Syntax Description</b>	<b>internal</b> (Optional) Displays internal terminal information.				
<b>Defaults</b>	None				
<b>Command Modes</b>	EXEC Global configuration				
<b>SupportedUserRoles</b>	network-admin network-operator				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.2(1)VSG1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.2(1)VSG1(1)	This command was introduced.
Release	Modification				
4.2(1)VSG1(1)	This command was introduced.				

**Usage Guidelines** You can use the following operators with the **show terminal** 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 the terminal:

```
VSG129-2# show terminal internal info
Process info:
Name:    vsh
State:   R (running)
SleepAVG:      88%
Tgid:    4157
Pid:     4157
PPid:    4156
TracerPid:    0
Uid:     2002    2002    2002    2002
Gid:     503     503     503     503
FDSize:  256
Groups:  503
VmSize:  31080 kB
VmLck:   0 kB
VmRSS:   9208 kB
VmData:  1140 kB
```

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```

VmStk:          84 kB
VmExe:          44 kB
VmLib:         13664 kB
VmPTE:          48 kB
Threads:        1
SigPnd: 0000000000000000
ShdPnd: 0000000000000000
SigBlk: 0000001000000000
SigIgn: 0000000000300004
SigCgt: 0000000180007002
CapInh: 0000000000000000
CapPrm: 0000000000000000
CapEff: 0000000000000000

```

```

Memory limits:
core file size      (blocks, -c) 146484
data seg size      (kbytes, -d) unlimited
file size          (blocks, -f) unlimited
max locked memory  (kbytes, -l) unlimited
max memory size    (kbytes, -m) unlimited
open files         (-n) 1024
pipe size          (512 bytes, -p) 8
stack size         (kbytes, -s) 8192
cpu time           (seconds, -t) unlimited
max user processes (-u) unlimited
virtual memory     (kbytes, -v) 204800
vsg#

```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show processes</b>	Displays process information.

---

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## show user-account

To display information about user accounts, use the **show user-account** command.

```
show user-account [user-account-name]
```

Syntax Description	
	<i>user-account-name</i> (Optional) User account name.

Defaults	
	None

Command Modes	
	EXEC Global configuration (config)

SupportedUserRoles	
	network-admin network-operator

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

Usage Guidelines	
	You can use the following operators with the <b>show user-account</b> command: <ul style="list-style-type: none"> <li>• &gt;—Redirects the output to a file.</li> <li>• &gt;&gt;—Redirects the output to a file in append mode.</li> <li>•  —Pipes the command output to a filter.</li> </ul>

Examples	
	This example shows how to display user accounts: <pre>vsg# show user-account user:adminbackup     this user account has no expiry date     roles: user:admin     this user account has no expiry date     roles:network-admin user:vsnbetauser     this user account has no expiry date     roles:network-admin vsg#</pre>

Related Commands	Command	Description
	<b>show users</b>	Displays current users.

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## show users

To display users, use the **show users** command.

**show users**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration (config)

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show users** 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 users:

```
vsg# show users
NAME      LINE      TIME          IDLE          PID COMMENT
admin     pts/0     Jan 21 17:19  old          3021 (171.69.17.61) session=ssh
admin     pts/29    Feb 23 11:13  .            4157 (10.21.145.11) session = ssh *
vsg#
```

Related Commands	Command	Description
	<b>show user-account</b>	Displays information about user accounts.

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## show version

To display the software version, use the **show version** command.

```
show version [build-info | image | internal]
```

Syntax Description	build-info	(Optional) Display build information.
	image	(Optional) Displays software image information.
	internal	(Optional) Displays software compatibility results between two images.

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

Command Modes	EXEC Global configuration (config)
---------------	---------------------------------------

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

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

**Usage Guidelines** You can use the following operators with the **show version** 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 software build information:

```
vsg# show version build-info
```

Related Commands	Command	Description
	show install	Displays the software install impact between two images.



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## show vnm-pa

To display the VNMC policy agent, use the **show vnm-pa** command.

```
show vnm-pa [status | tech-support]
```

Syntax Description	status	(Optional) Displays the policy agent status.
	tech-support	(Optional) Displays technical support information.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

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

```
vsg# show vnm-pa status
VNM Policy-Agent status is - Not Installed
vsg#
```

Related Commands	Command	Description
	show vsg	Displays VSG information.

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## show vsg dvport

To display information about a VSG DV port, use the **show vsg dvport** command.

```
show vsg [dvport [port-name]]
```

Syntax Description	
	<i>port-name</i> (Optional) DV port name.

Defaults	
	None

Command Modes	
	EXEC Global configuration

SupportedUserRoles	
	network-admin network-operator

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

Usage Guidelines	
	You can use the following operators with the <b>show vsg dvport</b> command: <ul style="list-style-type: none"> <li>• &gt;—Redirects the output to a file.</li> <li>• &gt;&gt;—Redirects the output to a file in append mode.</li> <li>•  —Pipes the command output to a filter.</li> </ul>

Examples	
	This example shows how to display information about a DV port: <pre>vsg# show vsg dvport DV Port      : 576::bcaa1c50-8747-8d08-fe7e-a9aa8924bf8e Security Profile : spcustom VM uuid      : 421c5ae4-51c3-5dd9-60fa-a50cb04ed0ea Port Profile  : vm_data IP Addresses :   100.1.1.20   100.1.1.10 vsg#</pre>

Related Commands	Command	Description
	<b>show vsg ip-binding</b>	Displays information about IP bindings.

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## show vsg ip-binding

To displays a list of VM IP addresses and associated VNSP and policy sets, use the **show vsg ip-binding** command.

**show vsg ip-binding**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** EXEC  
Global configuration

**SupportedUserRoles** network-admin  
network-operator

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

**Usage Guidelines** You can use the following operators with the **show vsg ip-binding** 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 a list of VM IP addresses:

```
vsg# show vsg ip-binding
```

```
-----
VM IP address      Security-Profile Name      Policy Name
-----
100.1.1.20         spcustom                   policy_one
100.1.1.10         sp_new                     policy_one
vsg#
```

Related Commands	Command	Description
	<b>show vsg security-profile</b>	Displays information about security profiles.

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## show vsg security-profile

To display information about security profiles, use the **show vsg security-profile** command.

```
show security-profile [profile-name | brief]
```

Syntax Description	
<i>profile-name</i>	(Optional) Profile name.
<b>brief</b>	(Optional) Displays security profile information.

Defaults	
None	

Command Modes	
EXEC	
Global configuration	

SupportedUserRoles	
network-admin	
network-operator	

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

Usage Guidelines	
You can use the following operators with the <b>show vsg security-profile</b> command:	
<ul style="list-style-type: none"> <li>&gt;—Redirects the output to a file.</li> <li>&gt;&gt;—Redirects the output to a file in append mode.</li> <li> —Pipes the command output to a filter.</li> </ul>	



Examples	
This example shows how to display information about security profiles:	
<pre>vsg# show vsg security-profile VNSP          : spcustom VNSP id       : 2 Policy Name   : policy_one Policy id     : 1 Custom attributes :   dept                : eng  VNSP          : sp_new VNSP id       : 1 Policy Name   : policy_new Policy id     : 1 Custom attributes :   dept                : sales vsg#</pre>	

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Related Commands	Command	Description
	show policy stats	Displays policy statistics.

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## show vsg vm

To display information about a VM, use the **show vsg vm** command.

```
show vsg vm [vm-uuid]
```

Syntax Description	vm-uuid	Virtual machine Universally Unique Identifier.
--------------------	---------	--

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

Command Modes	EXEC Global configuration
---------------	------------------------------

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

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

Usage Guidelines	<p>You can use the following operators with the <b>show vsg vm</b> command:</p> <ul style="list-style-type: none"> <li>&gt;—Redirects the output to a file.</li> <li>&gt;&gt;—Redirects the output to a file in append mode.</li> <li> —Pipes the command output to a filter.</li> </ul>
------------------	--

Examples	<p>This example shows how to :</p> <pre>vsn22# show vsg vm VM uuid      : 421c5ae4-51c3-5dd9-60fa-a50cb04ed0ea VM attributes :   cluster-name      :   host-name         : 10.193.73.154   name              : win2k3  vsg#</pre>
----------	---

Related Commands	Command	Description
	show vsg	Displays VSG information.

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## show xml server

To display XML server information, use the **show xml server** command.

```
show xml server [logging | status]
```

Syntax Description	
<b>logging</b>	(Optional) Displays the logging configuration and the contents of the log file.
<b>status</b>	(Optional) Displays XML agent information.

Defaults	
None	

Command Modes	
EXEC	
Global configuration (config)	

SupportedUserRoles	
network-admin	
network-operator	

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

Usage Guidelines	
You can use the following operators with the <b>show xml server</b> command:	
<ul style="list-style-type: none"> <li>&gt;—Redirects the output to a file.</li> <li>&gt;&gt;—Redirects the output to a file in append mode.</li> <li> —Pipes the command output to a filter.</li> </ul>	

Examples	
This example shows how to display XML server information:	

```
vsg# show xml server status
operational status is enabled
maximum session configured is 8
vsg#
```

Related Commands	Command	Description
	<b>show http-server</b>	Displays the HTTP server configuration.

■ show xml server

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