



## Show Commands

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This chapter describes the Cisco Nexus Cloud Services Platform **show** commands.

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## show aaa accounting

To display the AAA accounting configuration, use the **show aaa accounting** command.

**show aaa accounting**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the accounting configuration:

```
n1010# show aaa accounting
      default: local
n1010#
```

Related Commands	Command	Description
	<b>show aaa authentication</b>	Displays the configuration for AAA authentication.
	<b>show aaa groups</b>	Displays the configured AAA server groups.

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## show aaa authentication

To display the configuration for AAA authentication, use the **show aaa authentication** command.

**show aaa authentication** [**login error-enable** | **login mschap**]

Syntax Description	
<b>login error-enable</b>	(Optional) Displays the authentication login error message enable configuration.
<b>login mschap</b>	(Optional) Displays the authentication login MS-CHAP enable configuration.

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the configured authentication parameters:

```
n1010# show aaa authentication
      default: local
      console: local
```

This example shows how to display the authentication-login error-enable configuration:

```
n1010# show aaa authentication login error-enable
disabled
```

This example shows how to display the authentication-login MSCHAP configuration:

```
n1010# show aaa authentication login mschap
disabled
```

Related Commands	Command	Description
	<b>show aaa accounting</b>	Displays the AAA accounting configuration.
	<b>show aaa groups</b>	Displays the configured AAA server groups.

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## show aaa groups

To display the configured AAA server groups, use the **show aaa groups** command.

**show aaa groups**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display AAA group information:

```
n1010# show aaa groups
TacServer
```

Related Commands	Command	Description
	<b>show aaa accounting</b>	Displays the AAA accounting configuration.
	<b>show aaa authentication</b>	Displays the configuration for AAA authentication.

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## show accounting log

To display the accounting log contents, use the **show accounting log** command.

**show accounting log** [*size*] [**start-time** *year month day HH:MM:SS*]

Syntax Description	
<i>size</i>	(Optional) Size of the log to display in bytes. The range is from 0 to 250000.
<b>start-time</b> <i>year month day HH:MM:SS</i>	(Optional) Specifies a start time as follows. <ul style="list-style-type: none"> <li>• The year is shown in the yyyy format, such as 2009.</li> <li>• The month is shown in the three-letter English abbreviation, such as Feb.</li> <li>• The day of the month is shown as a number from 1 to 31.</li> <li>• Hours, minutes, and seconds are shown in the standard 24-hour format, such as 16:00:00.</li> </ul>

Defaults	
	None

Command Modes	
	Any command mode

SupportedUserRoles	
	network-admin network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

Examples	
	This example shows how to display the entire accounting log:

```
n1010# show accounting log
Wed Jul 22 02:09:44 2009:update:vsh.3286:root:configure terminal ; port-profile Unused_Or_Quarantine_Uplink ; capability uplink (SUCCESS)
Wed Jul 22 07:57:50 2009:update:171.71.55.185@pts/2:admin:configure terminal ; flow record newflowrecord (SUCCESS)
Wed Jul 22 08:48:57 2009:start:swordfish-build1.cisco.com@pts:admin:
Wed Jul 22 08:49:03 2009:stop:swordfish-build1.cisco.com@pts:admin:shell terminated gracefully
Wed Jul 22 08:50:36 2009:update:171.71.55.185@pts/2:admin:configure terminal ; no flow record newflowrecord (SUCCESS)
Thu Jul 23 07:21:50 2009:update:vsh.29016:root:configure terminal ; port-profile Unused_Or_Quarantine_Veth ; state enabled (SUCCESS)
Thu Jul 23 10:25:19 2009:start:171.71.55.185@pts/5:admin:
Thu Jul 23 11:07:37 2009:update:171.71.55.185@pts/5:admin:enabled aaa user default role enabled/disabled
doc-switch(config)#
```

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This example shows how to display 400 bytes of the accounting log:

```
n1010# show accounting log 400

Sat Feb 16 21:15:24 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 18:31:21
Sat Feb 16 21:15:25 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 21:15:26 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
```

This example shows how to display the accounting log starting at 16:00:00 on February 16, 2008:

```
n1010(config)# show accounting log start-time 2008 Feb 16 16:00:00

Sat Feb 16 16:00:18 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log file
start-time 2008 Feb 16 15:59:16
Sat Feb 16 16:00:26 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 12:05:16
Sat Feb 16 16:00:27 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 16:00:28 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
Sat Feb 16 16:01:18 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log file
start-time 2008 Feb 16 16:00:16
Sat Feb 16 16:01:26 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 12:05:16
Sat Feb 16 16:01:27 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
Sat Feb 16 16:01:29 2008:update:/dev/pts/1_172.28.254.254:admin:show clock
Sat Feb 16 16:02:18 2008:update:/dev/pts/1_172.28.254.254:admin:show logging log file
start-time 2008 Feb 16 16:01:16
Sat Feb 16 16:02:26 2008:update:/dev/pts/1_172.28.254.254:admin:show accounting log
start-time 2008 Feb 16 12:05:16
Sat Feb 16 16:02:28 2008:update:/dev/pts/1_172.28.254.254:admin:show system uptime
```

**Related Commands**

Command	Description
<b>clear accounting log</b>	Clears the accounting log.

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## show banner motd

To display the configured banner message, use the **show banner motd** command.

**show banner motd**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the configured banner message:

```
n1010(config)# show banner motd
April 16, 2008 Welcome to the Switch
```

Related Commands	Command	Description
	<b>banner motd</b>	Configures the banner message of the day.
	<b>switchname</b>	Changes the switch prompt.

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## show boot

To display the system and kickstart boot variables for verification, use the **show boot** command.

```
show boot [auto-copy [list] | sup-1 | sup-2 | variables]
```

Syntax Description	
<b>auto-copy</b>	(Optional) Determines whether auto-copy is enabled.
<b>list</b>	(Optional) Displays the list of files to be auto-copied.
<b>sup-1</b>	(Optional) Displays the sup-1 VSM configuration.
<b>sup-2</b>	(Optional) Displays the sup-2 VSM configuration.
<b>variables</b>	(Optional) Displays a list of boot variables.

Defaults	
	None

Command Modes	
	Global configuration (config)

SupportedUserRoles	
	network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the system and kickstart boot variables for verification:

```
n1010# configure terminal
n1010(config)# show boot

sup-1
kickstart variable =
bootflash:/nexus-1000v-kickstart-mzg.4.0.4
.SV1.2.bin
system variable =
bootflash:/nexus-1000v-mzg.4.0.4.SV1.2.bin
sup-2
kickstart variable =
bootflash:/nexus-1000v-kickstart-mzg.4.0.4
.SV1.2.bin
system variable =
bootflash:/nexus-1000v-mzg.4.0.4.SV1.2.bin
No module boot variable set
n1010(config)#
```



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Related Commands	Command	Description
	<b>reload module</b>	Reloads the Virtual Supervisor Module (VSM).
	<b>show version</b>	Displays the software version on the VSM.

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## show cdp

To display your Cisco Discovery Protocol (CDP) configuration, use the **show cdp** command.

```
show cdp {all | entry {all | name name} | global | interface interface | traffic interface
traffic-interface}
```

Syntax Description		
<b>all</b>		Displays all interfaces in the CDP database.
<b>entry</b>		Displays CDP entries in the database.
<b>name</b> <i>name</i>		Displays a specific CDP entry matching a name.
<b>global</b>		Displays CDP parameters for all interfaces.
<b>interface</b> <i>interface</i>		Displays CDP parameters for a specified interface.
<b>traffic interface</b> <i>traffic-interface</i>		Displays CDP traffic statistics.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the global CDP configuration:

```
n1010(config)# show cdp global
Global CDP information:
  CDP enabled globally
  Sending CDP packets every 5 seconds
  Sending a holdtime value of 10 seconds
  Sending CDPv2 advertisements is disabled
  Sending DeviceID TLV in Mac Address Format
```

This example shows how to display the CDP configuration for a specified interface:

```
n1010(config)# show cdp interface ethernet 2/3
Ethernet2/3 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds\
```

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This example shows how to display the CDP traffic statistics for a specified interface:

```
n1010(config)# show cdp traffic interface ethernet 2/3
-----
Traffic statistics for Ethernet2/3
Input Statistics:
  Total Packets: 98
  Valid CDP Packets: 49
    CDP v1 Packets: 49
    CDP v2 Packets: 0
  Invalid CDP Packets: 49
    Unsupported Version: 49
    Checksum Errors: 0
    Malformed Packets: 0

Output Statistics:
  Total Packets: 47
    CDP v1 Packets: 47
    CDP v2 Packets: 0
  Send Errors: 0
```

This example shows how to display the CDP parameters for all interfaces:

```
n1010# show cdp all
Ethernet2/2 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
Ethernet2/3 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
Ethernet2/4 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
Ethernet2/5 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
Ethernet2/6 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
mgmt0 is up
  CDP enabled on interface
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>cdp advertise</b>	Assigns the CDP version to advertise.
<b>cdp enable</b>	In interface mode, enables CDP on an interface. In EXEC mode, enables CDP for your device.
<b>show cdp neighbors</b>	Displays the configuration and capabilities of upstream devices.

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## show cdp neighbors

To display the configuration and capabilities of upstream devices, use the **show cdp neighbors** command.

```
show cdp neighbors [interface {control control-int-number | ethernet slot/port |
mgmt mgmt-int-number}] detail
```

### Syntax Description

<b>interface name</b>	(Optional) Specifies CDP neighbors for an interface.
<b>control</b>	Specifies a control interface.
<i>control-int-number</i>	Number that represents the control interface. The Cisco Nexus 1010 only supports control0
<b>ethernet</b>	Specifies an Ethernet interface.
<i>slot/port</i>	Slot and port number of the Ethernet interface. The slot range is 1–66 and the port range is 1–256.
<b>mgmt</b>	Specifies a management interface.
<i>mgmt-int-number</i>	Number that represents the management interface. The Cisco Nexus 1010 only supports mgmt0.
<b>detail</b>	Displays the detailed configuration of all CDP neighbors.

### Defaults

None

### Command Modes

Any command mode

### Supported User Roles

network-admin  
network-operator

### Command History

Release	Modification
4.0(4)SP1(1)	This command was introduced.

### Examples

This example shows how to display the configuration and capabilities of upstream devices:

```
n1010(config)# show cdp neighbors
Capability Codes: R - Router, T - Trans-Bridge, B - Source-Route-Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater,
                  V - VoIP-Phone, D - Remotely-Managed-Device,
                  s - Supports-STP-Dispute

Device ID           Local Intrfce   Hldtme   Capability   Platform   Port ID
swordfish-6k-2     Eth2/2         169      R S I       WS-C6503-E Gig1/14
swordfish-6k-2     Eth2/3         139      R S I       WS-C6503-E Gig1/15
swordfish-6k-2     Eth2/4         135      R S I       WS-C6503-E Gig1/16
swordfish-6k-2     Eth2/5         177      R S I       WS-C6503-E Gig1/17
```

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```
swordfish-6k-2          Eth2/6          141      R S I      WS-C6503-E      Gig1/18
```

This example shows how to display configuration and capabilities of upstream devices for a specific interface:

```
n1010(config)# show cdp neighbors interface ethernet 2/3
Capability Codes: R - Router, T - Trans-Bridge, B - Source-Route-Bridge
                  S - Switch, H - Host, I - IGMP, r - Repeater,
                  V - VoIP-Phone, D - Remotely-Managed-Device,
                  s - Supports-STP-Dispute
```

```
Device ID          Local Intrfce  Hldtme  Capability  Platform      Port ID
swordfish-6k-2    Eth2/3        173     R S I      WS-C6503-E    Gig1/15
```

#### Related Commands

Command	Description
<b>cdp advertise</b>	Assigns the CDP version to advertise.
<b>cdp enable</b>	In interface mode, enables CDP on an interface. In EXEC mode, enables CDP for your device.
<b>show cdp</b>	Displays the CDP configuration and capabilities for your device.

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## show cli variables

To display user-defined CLI persistent variables, use the **show cli variables** command.

To remove user-defined CLI persistent variables, use the **cli no var name** command in configuration mode.

**show cli variables**

**cli no var name** *name*

<b>Syntax Description</b>	<i>name</i> Name of an existing variable.						
<b>Defaults</b>	None						
<b>Command Modes</b>	Any command mode						
<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>4.0(4)SP1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(4)SP1(1)	This command was introduced.		
Release	Modification						
4.0(4)SP1(1)	This command was introduced.						
<b>Examples</b>	<p>This example shows how to display user-defined CLI persistent variables:</p> <pre>n1010# show cli variables VSH Variable List ----- TIMESTAMP="2008-07-02-13.45.15" testinterface="ethernet 3/1"</pre> <p>This example shows how to remove the user-defined CLI persistent variable named mgmtport.</p> <pre>n1010# cli no var name mgmtport n1010#</pre>						
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>cli var name</b></td> <td>Defines a command-line interface (CLI) variable for a terminal session.</td> </tr> <tr> <td><b>run-script</b></td> <td>Runs a command script that is saved in a file.</td> </tr> </tbody> </table>	Command	Description	<b>cli var name</b>	Defines a command-line interface (CLI) variable for a terminal session.	<b>run-script</b>	Runs a command script that is saved in a file.
Command	Description						
<b>cli var name</b>	Defines a command-line interface (CLI) variable for a terminal session.						
<b>run-script</b>	Runs a command script that is saved in a file.						

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## show cores

To view recent core images, use the **show cores** command.

**show cores**

**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)SP1(1)	This command was introduced.

**Usage Guidelines** System core image files are generated when a service fails.

**Examples** This example shows how to display recent core images:

```
n1010# show cores
Module-num      Instance-num    Process-name    PID    Core-create-time
-----
n1010#
```

Related Commands	Command	Description
	<b>show processes</b>	Displays information regarding process logs.

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## show file

To display a full filename by entering a partial filename and pressing the Tab key, use the **show file** command.

```
show file { bootflash: | volatile: | debug: } partial_filename [cksum | md5sum]
```

Syntax Description		
<b>bootflash</b>		Specifies a directory or filename.
<b>volatile:</b>		Specifies a directory or filename on volatile flash.
<b>debug:</b>		Specifies a directory or filename on expansion flash.
<i>partial_filename</i>		Portion of the filename to be displayed. Pressing the <b>Tab</b> key lists any existing files that match the partial name.
<b>cksum</b>		(Optional) Displays the CRC checksum for a file.
<b>md5sum</b>		(Optional) Displays the MD5 checksum for a file.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Usage Guidelines**

When you type a partial filename and then press the **Tab** key, the CLI completes the filename if the characters that you typed are unique to a single file.

If not, the CLI lists a selection of filenames that match the characters that you typed.

You can then retype enough characters to make the filename unique, and CLI completes the filename for you.

**Examples**

This example shows how to display a full filename by entering a partial filename and pressing the Tab key:

```
n1010# show file bootflash:nexus-1000v <Tab>
bootflash:nexus-1000v-dplug-mzg.4.0.4.SV1.0.42.bin
bootflash:nexus-1000v-mzg.4.0.4.SV1.0.42.bin
bootflash:nexus-1000v-kickstart-mzg.4.0.4.SV1.0.42.bin
```



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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>dir</b>	Displays the contents of a directory or file.
	<b>copy</b>	Copies a file from the specified source location to the specified destination location.
	<b>mkdir</b>	Creates a directory at the current directory level.
	<b>rmdir</b>	Removes a directory.

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## show interface brief

To display a short version of the interface configuration, use the **show interface brief** command.

**show interface brief**

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

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to to display a short version of the interface configuration:

```
n1010# show int brief
-----
Port VRF Status IP Address Speed MTU
-----
mgmt0 -- up 172.23.232.141 1000 1500
-----
Ethernet VLAN Type Mode Status Reason Speed Port
Interface Ch #
-----
Eth3/2 1 eth trunk up none 1000(D) --
Eth3/3 1 eth access up none 1000(D) --
n1010#
```

Related Commands	Command	Description
	<b>interface</b>	Adds, removes or configures interfaces.
	<b>show interface capabilities</b>	Displays information about the capabilities of the interfaces.
	<b>show interface counters trunk</b>	Displays the counters for Layer 2 switch port trunk interfaces.
	<b>show interface status</b>	Displays the interface line status.

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## show interface capabilities

To display information about the capabilities of the interfaces, use the **show interface capabilities** command.

### show interface capabilities

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

**Defaults** None

**Command Modes** Any configuration mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display information about the capabilities of the interfaces:

```
n1010# show interface capabilities
mgmt0
  Model:                --
  Type:                 --
  Speed:                10,100,1000,auto
  Duplex:               half/full/auto
  Trunk encap. type:    802.1Q
  Channel:              no
  Broadcast suppression: none
  Flowcontrol:          rx-(none),tx-(none)
  Rate mode:            none
  QoS scheduling:       rx-(none),tx-(none)
  CoS rewrite:          yes
  ToS rewrite:          yes
  SPAN:                 yes
  UDL:                  yes
  Link Debounce:        no
  Link Debounce Time:   no
  MDIX:                 no
  Port Group Members:   none

port-channel1
  Model:                unavailable
  Type:                 unknown
  Speed:                10,100,1000,10000,auto
  Duplex:               half/full/auto
  Trunk encap. type:    802.1Q
  Channel:              yes
```

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```

Broadcast suppression: percentage(0-100)
Flowcontrol: rx-(off/on/desired),tx-(off/on/desired)
Rate mode: none
QOS scheduling: rx-(none),tx-(none)
CoS rewrite: yes
ToS rewrite: yes
SPAN: yes
UDLD: no
Link Debounce: no
Link Debounce Time: no
MDIX: no
Port Group Members: none

port-channel2
Model: unavailable
Type: unknown
Speed: 10,100,1000,10000,auto
Duplex: half/full/auto
Trunk encap. type: 802.1Q
Channel: yes
Broadcast suppression: percentage(0-100)
Flowcontrol: rx-(off/on/desired),tx-(off/on/desired)
Rate mode: none
QOS scheduling: rx-(none),tx-(none)
CoS rewrite: yes
ToS rewrite: yes
SPAN: yes
UDLD: no
Link Debounce: no
Link Debounce Time: no
MDIX: no
Port Group Members: none

port-channel12
Model: unavailable
Type: unknown
Speed: 10,100,1000,10000,auto
Duplex: half/full/auto
Trunk encap. type: 802.1Q
Channel: yes
Broadcast suppression: percentage(0-100)
Flowcontrol: rx-(off/on/desired),tx-(off/on/desired)
Rate mode: none
QOS scheduling: rx-(none),tx-(none)
CoS rewrite: yes
ToS rewrite: yes
SPAN: yes
UDLD: no
Link Debounce: no
Link Debounce Time: no
MDIX: no
Port Group Members: none

control0
Model: --
Type: --
Speed: 10,100,1000,auto
Duplex: half/full/auto
Trunk encap. type: 802.1Q
Channel: no
Broadcast suppression: none
Flowcontrol: rx-(none),tx-(none)
Rate mode: none
QOS scheduling: rx-(none),tx-(none)

```

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```

CoS rewrite:          yes
ToS rewrite:          yes
SPAN:                 yes
UDLD:                 yes
Link Debounce:        no
Link Debounce Time:   no
MDIX:                 no
Port Group Members:   none

```

```
n1010#
```

#### Related Commands

Command	Description
<b>interface</b>	Adds, removes or configures interfaces.
<b>show interface brief</b>	Displays a short version of the interface configuration.
<b>show interface counters trunk</b>	Displays the counters for Layer 2 switch port trunk interfaces
<b>show interface status</b>	Displays the interface line status.

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## show interface counters trunk

To display the counters for Layer 2 switch port trunk interfaces, use the **show interface counters trunk** command.

```
show interface {ethernet slot/port} counters trunk
```

Syntax Description	ethernet slot/port	Specifies the module number and port number for the trunk interface that you want to display.
--------------------	--------------------	---

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

Command Modes	Any command mode
---------------	------------------

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

Usage Guidelines	The device supports only IEEE 802.1Q encapsulation. This command also displays the counters for trunk port channels.
------------------	--

Examples	This example shows how to display the counters for a trunk interface. This display shows the frames transmitted and received through the trunk interface, as well as the number of frames with the wrong trunk encapsulation:
----------	---

```
n1010# show interface ethernet 2/9 counters trunk
```

```
-----
Port           TrunkFramesTx  TrunkFramesRx  WrongEncap
-----
Ethernet2/9           0             0             0
n1010#
```

Related Commands	Command	Description
	<b>clear counters</b>	Clears interface counters
	<b>show interface brief</b>	Displays a short version of the interface configuration.
	<b>show interface capabilities</b>	Displays information about the capabilities of the interfaces.
	<b>show interface status</b>	Displays the interface line status.

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## show interface status

To display the interface line status, use the **show interface status** command.

```
show interface status [down | err-disabled | inactive | module module-number | up]
```

Syntax Description	
<b>down</b>	(Optional) Specifies interfaces that are in the down state.
<b>err-disabled</b>	(Optional) Specifies interfaces that are in the errdisabled state.
<b>inactive</b>	(Optional) Specifies interfaces that are in the inactive state.
<b>module</b>	(Optional) Limits the display to interfaces on a particular module.
<i>module-number</i>	Number that identifies an existing module. The range is from 1 from 66.
<b>up</b>	(Optional) Specifies interfaces that are in the up state.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the line status for interfaces in the up state:

```
n1010# show interface status up
```

```
-----
Port          Name           Status  Vlan    Duplex  Speed  Type
-----
mgmt0         --             up      routed  full    1000   --
ctrl0         --             up      routed  full    1000   --
n1010#
```

Related Commands	Command	Description
	<b>interface</b>	Adds, removes or configures interfaces.
	<b>show interface brief</b>	Displays a short version of the interface configuration.

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<b>Command</b>	<b>Description</b>
<b>show interface capabilities</b>	Displays information about the capabilities of the interfaces.
<b>show interface counters trunk</b>	Displays the counters for Layer 2 switch port trunk interfaces



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## show logging logfile

To display the contents of the log file, use the **show logging logfile** command.

**show logging logfile** [**start-time** *time* | **end-time** *time*]

Syntax Description	start-time	(Optional) Specifies the starting time for which you want the logfile displayed.
	end-time	(Optional) Specifies the ending time for which you want the logfile displayed.
	time	Specify the time as follows:
	Time	Description
	yyyy	Year
	mmm	Month (for example, <i>jan, feb, mar</i> )
	dd	Day of month (for example <i>01</i> )
	hh:mm:ss	Hour, minutes, seconds (for example, <i>04:00:00</i> )

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the contents of the logfile:

```
n1010# show logging logfile start-time 2009 Aug 23 22:00:00 end-time 2009 Aug 24 24:00:00
2009 Aug 23 22:58:00 doc-n1000v %PORTPROFILE-5-SYNC_COMPLETE: Sync completed.
2009 Aug 24 23:53:15 doc-n1000v %MODULE-5-MOD_OK: Module 3 is online (serial: )
2009 Aug 24 23:53:15 doc-n1000v %PLATFORM-5-MOD_STATUS: Module 3 current-status is MOD_S
TATUS_ONLINE/OK
n1010#
```

Related Commands	Command	Description
	<b>logging logfile</b>	Configures the log file used to store system messages.

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## show logging module

To display the current configuration for logging module messages to the log file, use the **show logging module** command.

**show logging module**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the configuration for logging module messages to the log file:

```
n1010# show logging module
Logging linecard:          disabled
n1010#
```

Related Commands	Command	Description
	<b>logging module</b>	Starts logging of module messages to the log file.

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## show logging server

To display the current server configuration for logging system messages, use the **show logging server** command.

### show logging server

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the current server configuration for logging system messages:

```
n1010## show logging server
Logging server:                enabled
{172.28.254.253}
  server severity:             notifications
  server facility:             local7
  server VRF:                   management
n1010##
```

Related Commands	Command	Description
	<b>logging server</b>	Designates a remote server for system message logging, and configures it.

## ■ show logging timestamp

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## show logging timestamp

To display the unit of measure used in the system messages time stamp, use the **show logging timestamp** command.

### show logging timestamp

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the unit of measure used in the system messages time stamp:

```
n1010## show logging timestamp
Logging timestamp:          Seconds
n1010##
```

Related Commands	Command	Description
	<b>logging timestamp</b>	Sets the unit of measure for the system messages time stamp.

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## show module

To display module information, use the **show module** command.

```
show module [module-number | internal | ipv6-info | uptime | vem]
```

Syntax Description	
<i>module-number</i>	(Optional) Number that identifies an existing module. The range is from 1 from 22.
<b>internal</b>	(Optional) Displays information about the module.
<b>ipv6-info</b>	(Optional) Displays information related to the server IPv6 address.
<b>uptime</b>	(Optional) Displays how long the module has been up and running.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(2)	Removed the VEM option.
	4.0(4)SP1(1)	This command was introduced.

### Examples

This example shows how to display module information:

```
n1010# show module
Mod  Ports  Module-Type                               Model                Status
---  ---  -
1    0      Virtual Supervisor Module                Nexus1000V           active *

Mod  Sw                Hw
---  ---
1    4.0(4)SP1(1)      0.0

Mod  MAC-Address(es)                Serial-Num
---  ---
1    00-19-07-6c-5a-a8 to 00-19-07-6c-62-a8  NA

Mod  Server-IP                Server-UUID                Server-Name
---  ---
1    172.23.232.152          NA                          NA

* this terminal session
n1010#
```

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Related Commands	Command	Description
	<b>show svcs domain</b>	Displays the domain information for the Cisco Nexus 1010, such as the domain ID, control VLAN ID, and management VLAN ID.
	<b>svcs-domain</b>	Configures an SVCS domain and enter SVCS domain configuration mode.

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## show network

To display information about the network, use the **show network** command.

```
show network [counters | uplinks | virtual-service-blade name]
```

<b>Syntax Description</b>	<b>counters</b>	(Optional) Specifies statistical information about the network.
	<b>uplinks</b>	(Optional) Specifies information about network uplinks, such as addresses, duplex settings, and traffic.
	<b>virtual-service-blade</b>	(Optional) Specifies information about a virtual service blade.
	<i>name</i>	Name of an existing virtual service blade.
<b>Defaults</b>	None	
<b>Command Modes</b>	Any command mode	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.

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### Examples

This example shows how to display statistical information about the network:

```
n1010# show network counters
-----
                Port          InOctets    InUcastPkts    InMcastPkts
-----
GigabitEthernet1    87485620      1110644        79637
GigabitEthernet2         0              0              0
GigabitEthernet3    62129278      714059         2144
GigabitEthernet4         0              0              0
GigabitEthernet5    57579524      579127         2138
GigabitEthernet6         0              0              0
PortChannel1        87485620      1110644        79637
PortChannel2       119708802     1293186         4282
-----
                Port          OutOctets    OutUcastPkts    OutMcastPkts
-----
GigabitEthernet1    27703018      262330         79637
GigabitEthernet2         0              0              0
GigabitEthernet3    274156        2144           2144
GigabitEthernet4         0              0              0
GigabitEthernet5    273664        2138           2138
GigabitEthernet6         0              0              0
PortChannel1        27703018      262330         79637
PortChannel2        547820        4282           4282
n1010#
```

### Related Commands

Command	Description
<b>show network</b>	Displays information about the network.
<b>show virtual-service-blade</b>	Displays information about virtual service blades.
<b>show virtual-service-blade-type summary</b>	Displays information about the virtual service types and the virtual services belonging to that type.



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## show network summary

To display summary information about all VSBs configured in your network, use the **show network summary** command.

```
show network summary]
```

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

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows output to the show network summary command.

```
switch# show network summary
```

```
Legends: P - Passthrough
```

```
-----
Port                State      Uplink-Interface  Speed      RefCnt      MTU      Nat-Vlan
                   Oper Admin      Oper Admin
-----
Gi1                  up        up                 1000       3           9000
Gi2                  up        up                 1000       1           9000
Gi3                  up        up                 1000       1           9000
Gi4                  up        up                 1000
Gi5                  up        up                 1000
Gi6                  up        up                 1000
VsbEth1/1           up        up                 Gi2(P) Gi2(P)    1000
VsbEth1/2           up        up                 Gi1     Gi1       1000
VsbEth1/3           up        up                 Gi3(P) Gi3(P)    1000
control0            up        up                 Gi1     Gi1       1000
mgmt0               up        up                 Gi1     Gi1       1000
switch(config-vs-b-config)#
(config-vs-b-config)#
```

Related Commands	Command	Description
	<b>show network</b>	Displays information about the network.

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Command	Description
<b>show virtual-service-blade</b>	Displays information about virtual service blades.
<b>interface <i>name</i> mode passthrough</b>	Configures a VSB interface in passthrough mode

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## show network cdp neighbors

To display uplink connectivity for the active or standby Cisco Nexus 1010, use the **show network cdp neighbors** command.

**show network cdp neighbors**

**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
	4.2(1)SP1(3)	This command was introduced.

**Examples** This example shows how to display uplink connectivity for Cisco Nexus 1010:

```
n1010(standby)# show network cdp neighbors
...
Device-ID                Local Intrfce Hldtme Capability Platform      Port ID
-----
sfish-cat3k-K5-stack2 eth2                166    R T B S I r cisco WS-C375 GigabitEthe
rnet1/0/23
```

Related Commands	Command	Description
	<b>show cdp</b>	Displays the CDP configuration and capabilities for your device.
	<b>show cdp neighbors</b>	Displays the configuration and capabilities of upstream devices.
	<b>show network</b>	Displays information about the network.
	<b>show network cdp neighbors detail</b>	Displays uplink connectivity for the active or standby Cisco Nexus 1010 in detail.

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## show network port-channel summary

To display summary information about the port channels in the network for the Cisco Nexus 1010 product family, use the **show network port-channel summary** command.

**show network port-channel summary**

**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
	4.2(1)SP1(4)	This command was introduced.

**Examples** This example shows how to display summary information about the port channels for Cisco Nexus 1010:

```
n1010(config)# show network port-channel summary
```

```
-----
Group   Port-Channel Adm-State  Type           Member-Ports
-----
      1   PortChannel1    up         ha              Gi1 Gi2
-----
```

Related Commands	Command	Description
	<b>show cdp</b>	Displays the CDP configuration and capabilities for your device.
	<b>show network</b>	Displays information about the network.

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## show network cdp neighbors detail

To display uplink connectivity for the active or standby Cisco Nexus 1010 in detail, use the **show network cdp neighbors** command.

**show network cdp neighbors detail**

**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
	4.2(1)SP1(3)	This command was introduced.

### Examples

Related Commands	Command	Description
	<b>show cdp</b>	Displays the CDP configuration and capabilities for your device.
	<b>show cdp neighbors</b>	Displays the configuration and capabilities of upstream devices.
	<b>show network</b>	Displays information about the network.
	<b>show network cdp neighbors</b>	Displays uplink connectivity for the active or standby Cisco Nexus 1010.

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## show ntp peer-status

To display the status for all Network Time Protocol (NTP) servers and peers, use the **show ntp peer-status** command.

**show ntp peer-status**

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

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Usage Guidelines** A domain name is resolved only when you have a DNS server configured.

**Examples** This example shows how to display the configured server and peers:

```
n1010# show ntp peer-status
Total peers : 2
* - selected for sync, + - peer mode(active),
- - peer mode(passive), = - polled in client mode
  remote          local      st poll reach  delay  vrf
-----
=192.0.2.10      0.0.0.0      16 16    0  0.00000 default
+72.229.253.127 0.0.0.0      16 16    0  0.00000 default
n1010#
```

Related Commands	Command	Description
	<b>ntp peer</b>	Forms an association with a peer.
	<b>ntp server</b>	Forms an association with a server.
	<b>show ntp peers</b>	Displays all NTP peers.
	<b>show ntp statistics</b>	Displays NTP statistics.

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## show ntp peers

To display all Network Time Protocol (NTP) peers, use the **show ntp peers** command.

**show ntp peers**

**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)SP1(1)	This command was introduced.

**Usage Guidelines** A domain name is resolved only when you have a DNS server configured.

**Examples** This example shows how to display the configured server and peers:

```
n1010# show ntp peers
-----
Peer IP Address          Serv/Peer
-----
192.0.2.10              Server (configured)
72.229.253.127         Peer (configured)
n1010#
```

Related Commands	Command	Description
	<b>ntp peer</b>	Forms an association with a peer.
	<b>ntp server</b>	Forms an association with a server.
	<b>show ntp peer-status</b>	Displays the status for all NTP servers and peers.
	<b>show ntp statistics</b>	Displays NTP statistics.

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## show ntp statistics

To display Network Time Protocol (NTP) statistics, use the **show ntp statistics** command.

```
show ntp statistics {io | local | memory | peer} {ip-address | dns-name}
```

Syntax Description	io	Specifies the input-output statistics.
	<b>local</b>	Specifies the counters maintained by the local NTP.
	<b>memory</b>	Specifies the statistics counters related to the memory code.
	<b>peer</b>	Specifies the per-peer statistics counter of a peer.
	<i>ip-address</i>	IP address of this peer.
	<i>dns-name</i>	DNS name of this peer.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Usage Guidelines** A domain name is resolved only when you have a DNS server configured.

**Examples** This example shows how to display the configured server and peers:

```
n1010# show ntp statistics local
system uptime:          6742265
time since reset:      6742265
old version packets:   0
old version packets:   0
unknown version number: 0
bad packet format:    0
packets processed:     0
bad authentication:    0
packets rejected:      0
n1010#
```



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Related Commands	Command	Description
	ntp peer	Forms an association with a peer.
	ntp server	Forms an association with a server.

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## show password strength-check

To display whether the password strength is being checked, use the **show password strength-check** command.

**show password strength-check**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display whether the password strength is being checked:

```
n1010# show password strength-check
Password strength check enabled
n1010#
```

Related Commands	Command	Description
	<b>password strength-check</b>	Enables password-strength checking.
	<b>role name</b>	Names a user role and puts you in role configuration mode for that role.
	<b>username</b>	Creates a user account.

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## show processes

To display the state and the start count of all processes, use the **show processes** command.

```
show processes [cpu | log | memory]
```

Syntax Description	
<b>cpu</b>	(Optional) Specifies processes related to the CPU.
<b>log</b>	(Optional) Specifies information regarding process logs.
<b>memory</b>	(Optional) Specifies processes related to memory.

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the state and the start count of all processes:

```
n1010# show processes
```

PID	State	PC	Start_cnt	TTY	Type	Process
1	S	77f8a468	1	-	O	init
2	S	0	1	-	O	ksoftirqd/0
3	S	0	1	-	O	desched/0
4	S	0	1	-	O	events/0
5	S	0	1	-	O	khelper
10	S	0	1	-	O	kthread
18	S	0	1	-	O	kblockd/0
35	S	0	1	-	O	khubd
121	S	0	1	-	O	pdflush
122	S	0	1	-	O	pdflush
124	S	0	1	-	O	aio/0
123	S	0	1	-	O	kswapd0
709	S	0	1	-	O	kseriod
756	S	0	1	-	O	kide/0
766	S	0	1	-	O	ata/0
770	S	0	1	-	O	scsi_ah_0
1096	S	0	1	-	O	kjournald
1101	S	0	1	-	O	kjournald
1620	S	0	1	-	O	kjournald
1627	S	0	1	-	O	kjournald
1952	S	77f6c18e	1	-	O	portmap

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```

1965      S      0      1      -      O      nfsd
1966      S      0      1      -      O      nfsd
1967      S      0      1      -      O      nfsd
1968      S      0      1      -      O      nfsd
1969      S      0      1      -      O      nfsd
1970      S      0      1      -      O      nfsd
1971      S      0      1      -      O      nfsd
1972      S      0      1      -      O      nfsd
1973      S      0      1      -      O      lockd
1974      S      0      1      -      O      rpciod
1979      S 77f6e468  1      -      O      rpc.mountd
1989      S 77f6e468  1      -      O      rpc.statd
2016      S 77e0e468  1      -      VG      sysmgr
2298      S      0      1      -      O      mping-thread
2299      S      0      1      -      O      mping-thread
2315      S      0      1      -      O      stun_kthread
2316      S      0      1      -      O      stun_arp_mts_kt
2339      S      0      1      -      O      redun_kthread
2340      S      0      1      -      O      redun_timer_kth
2866      S      0      1      -      O      sf_rdn_kthread
2866      S      0      1      -      O      sf_rdn_kthread
2867      S 77f37468  1      -      VU      xinetd
2868      S 77f6e468  1      -      VU      tftpd
2869      S 7788c1b6   1      -      VL      syslogd
2870      S 77ecf468   1      -      VU      sdwrapd
2872      S 77d94468   1      -      VU      platform
2877      S      0      1      -      O      ls-notify-mts-t
2889      S 77eb2be4   1      -      VU      pfm_dummy
2896      S 77f836be   1      -      O      klogd
2903      S 77d9e468   1      -      VL      vshd
2904      S 77e41468   1      -      VU      stun
2905      S 77a74f43   1      -      VL      smm
2906      S 77e5a468   1      -      VL      session-mgr
2907      S 77c4e468   1      -      VL      psshelper
2908      S 77f75468   1      -      VU      lmgrd
2909      S 77e36be4   1      -      VG      licmgr
2910      S 77e468     1      -      VG      fs-daemon
2911      S 77ec5468   1      -      VL      feature-mgr
2912      S 77e7a468   1      -      VU      confcheck
2913      S 77eb3468   1      -      VU      capability
2915      S 77c4e468   1      -      VU      psshelper_gsvc
2922      S 77f75468   1      -      O      cisco
2937      S 77895f43   1      -      VL      clis
2937      S 77895f43   1      -      VL      clis
2952      S 77cba468   1      -      VL      xmlma
2953      S 77e8b468   1      -      VL      vmm
2955      S 77e80468   1      -      VU      ttyd
2957      S 77ecb6be   1      -      VL      sysinfo
2958      S 77b57468   1      -      VL      sksd
2959      S 77ea7468   1      -      VG      res_mgr
2960      S 77e53468   1      -      VG      plugin
2961      S 77ccf468   1      -      VL      mvsh
2962      S 77e05468   1      -      VU      module
2963      S 77c4e468   1      -      VL      evms
2964      S 77ccf468   1      -      VL      evmc
2965      S 77ecc468   1      -      VU      core-dmon
2966      S 7765b40d   1      -      VL      ascii-cfg
2967      S 77ceb468   1      -      VL      securityd
2968      S 77cb5468   1      -      VU      cert_enroll
2969      S 77b17be4   1      -      VL      aaa
2973      S 77e19468   1      -      VU      ExceptionLog
2975      S 77dfb468   1      -      VU      bootvar
2976      S 77df9468   1      -      VG      ifmgr
2977      S 77ead468   1      -      VU      tcap

```

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```

2978      S 77a6bf43          1 - VL 13vm
2978      S 77a6bf43          1 - VL 13vm
2979      S 77a62f43          1 - VL u6rib
2980      S 77a62f43          1 - VL urib
2981      S 77f30be4          1 - VU core-client
2983      S 77b95468          1 - VL aclmgr
3008      S 77d51468          1 - VU aclcomp
3011      S 7774440d          1 - VL tacacs
3012      S 77a72f43          1 - VL adjmgr
3016      S 77a74f43          1 - VL arp
3021      S 778a1896          1 - VL icmpv6
3022      S 7791ef43          1 - VL netstack
3050      S 7770240d          1 - VL radius
3051      S 77f59be4          1 - VL ip_dummy
3052      S 77f59be4          1 - VL ipv6_dummy
3053      S 7783c40d          1 - VU ntp
3054      S 77f59be4          1 - VL pktmgr_dummy
3055      S 778ae40d          1 - VL snmpd
3056      S 77f59be4          1 - VL tcpudp_dummy
3063      S 7782d40d          1 - VL cdp
3064      S 77b1540d          1 - VL dcos-xinetd
3154      S 77b4040d          1 - O ntpd
3195      S 77e0d468          1 - VL vsim
3196      S 778ee40d          1 - VL ufdm
3196      S 778ee40d          1 - VL ufdm
3197      S 77d42468          1 - VU sf_nf_srv
3198      S 778e240d          1 - VL sal
3199      S 77a14f43          1 - VL rpm
3200      S 778cd40d          1 - VG pltfm_config
3201      S 77efc468          1 - VU pixmc
3202      S 77e0f468          1 - VG pixm
3203      S 77c43468          1 - VU pdl_srv_tst
3204      S 7789e40d          1 - VL nfm
3205      S 77ddc468          1 - VU msp
3206      S 77dbc468          1 - VL monitor
3207      S 7789c40d          1 - VL mfdm
3208      S 7787340d          1 - VL l2fm
3209      S 77dc0468          1 - VL ipqosmgr
3210      S 77e81468          1 - VU ethanalyzer
3211      S 777b740d          1 - VL dhcp_snoop
3212      S 77b3940d          1 - VL dcos-thttpd
3213      S 77c26468          1 - VU copp
3214      S 77b2b468          1 - VL eth_port_channel
3215      S 77d15468          1 - VL vlan_mgr
3219      S 758bc40d          1 - VU vms
3220      S 77b8a468          1 - VL eth-port-sec
3221      S 77abb468          1 - VL stp
3221      S 77abb468          1 - VL stp
3226      S 77de5468          1 - VL lacp
3228      S 777ba40d          1 - VL ethpm
3232      S 77a0127b          1 - VL igmp
3235      S 77dba468          1 - VL private-vlan
3241      S 77d70468          1 - VU vim
3246      S 77d4b468          1 - VU portprofile
3285      S 77f836be          1 1 O getty
3286      S 77f806be          1 S0 O getty
3290      S 77f1deee          1 - O gettylogin1
3308      S 77f836be          1 S1 O getty
3360      S 77ae140d          1 - O dcos_sshd
3361      S 77aaa468          1 8 O vsh
4213      Z 0              1 - O vmw_maintenance
25188     Z 0              1 - O vmw_maintenance
31228     Z 0              1 - O vmw_maintenance
427       Z 0              1 - O vmw_maintenance

```

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```

1035      Z      0      1      -      O      vmw_maintenance
2439      Z      0      1      -      O      vmw_maintenance
7167      Z      0      1      -      O      vmw_maintenance
8246      Z      0      1      -      O      vmw_maintenance
8856      Z      0      1      -      O      vmw_maintenance
10539     Z      0      1      -      O      vmw_maintenance
10539     Z      0      1      -      O      vmw_maintenance
16083     Z      0      1      -      O      vmw_maintenance
19353     S      77ae140d    1      -      O      dcos_sshd
19354     S      7752340d    1      -      O      xmlsa
13167     S      77ae140d    1      -      O      dcos_sshd
13169     S      77aaa468    1      17     O      vsh
14253     S      7798140d    1      -      O      in.dcos-telnetd
14254     S      77aaa468    1      18     O      vsh
14757     S      7798140d    1      -      O      in.dcos-telnetd
14758     S      77a82eee    1      19     O      vsh
14933     S      77f426be    1      19     O      more
14934     S      77aa9be4    1      19     O      vsh
14935     R      77f716be    1      -      O      ps
-         NR      -      0      -      VL      eigrp
-         NR      -      0      -      VL      isis
-         NR      -      0      -      VL      ospf
-         NR      -      0      -      VL      ospfv3
-         NR      -      0      -      VL      rip
-         NR      -      0      -      VL      eigrp
-         NR      -      0      -      VL      isis
-         NR      -      0      -      VL      ospf
-         NR      -      0      -      VL      ospfv3
-         NR      -      0      -      VL      rip
-         NR      -      0      -      VL      rip
-         NR      -      0      -      VL      eigrp
-         NR      -      0      -      VL      isis
-         NR      -      0      -      VL      ospf
-         NR      -      0      -      VL      ospfv3
-         NR      -      0      -      VL      rip
-         NR      -      0      -      VL      amt
-         NR      -      0      -      VL      bgp
-         NR      -      0      -      VL      eou
-         NR      -      0      -      VL      glbp
-         NR      -      0      -      VL      hsrp_engine
-         NR      -      0      -      VU      installer
-         NR      -      0      -      VL      interface-vlan
-         NR      -      0      -      VU      lisp
-         NR      -      0      -      VL      msdp
-         NR      -      0      -      VL      pim
-         NR      -      0      -      VL      pim6
-         NR      -      0      -      VL      scheduler
-         NR      -      0      -      VL      isis
-         NR      -      0      -      VL      ospf
-         NR      -      0      -      VL      ospfv3
-         NR      -      0      -      VL      rip
-         NR      -      0      -      VL      amt
-         NR      -      0      -      VL      bgp
-         NR      -      0      -      VL      eou
-         NR      -      0      -      VL      glbp
-         NR      -      0      -      VL      hsrp_engine
-         NR      -      0      -      VU      installer
-         NR      -      0      -      VL      interface-vlan
-         NR      -      0      -      VU      lisp

```

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```

-   NR      -           0   -   VL  msdp
-   NR      -           0   -   VL  pim
-   NR      -           0   -   VL  pim6
-   NR      -           0   -   VL  scheduler
-   NR      -           0   -   VU  vbuilder

```

State: R(runnable), S(sleeping), Z(defunct)

Type: U(unknown), O(non sysmgr)  
NR(not running), ER(terminated etc)

n1010#

#### Related Commands

Command	Description
<b>show module</b>	Displays information about all available VSMS and VEMs in the system.
<b>show system redundancy status</b>	Displays the HA status of the system.

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## show running-config diff

To verify the difference between the running and startup configurations, use the **show running-config diff** command.

**show running-config diff**

**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)SP1(1)	This command was introduced.

**Usage Guidelines** When you switch over from one Virtual Supervisor Module (VSM) to another, any unsaved running configuration that was available in an active VSM is still unsaved in the new active VSM. You can verify this unsaved running configuration with this command, and save that configuration in the startup, if needed.

**Examples** This example shows how to verify the difference between the running and startup configurations:

```
n1010# show running-config diff
*** Startup-config
--- Running-config
*****
*** 1,38 ****
version 4.0(4)SP1(1)
role feature-group name new
role name testrole
username admin password 5 $1$S7HvKc5G$aguYqHl0dPtTBJAhEPwsyl role network-admin
telnet server enable
ip domain-lookup
```

Related Commands	Command	Description
	<b>copy running-config startup-config</b>	Copies the running configuration to the startup configuration.
	<b>system switchover</b>	Initiates, on the active VSM, a manual switchover to the standby VSM.



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## show running-config

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

### show running-config

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

### Examples

This example shows the output to the **show running-config** command after you setup a VXLAN Gateway VSB in passthrough mode:.

```
switch # show running-config )
Command: show running-config
!Time: Mon Jun  3 19:34:49 2013

version 4.2(1)SP1(6.1)
no feature telnet

username admin password 5 $1$D2HM64on$irBEZSiMcBfoFjMjKJgNz0  role network-admin

banner motd #Cisco VSA#

ip domain-lookup
ip domain-lookup
hostname switch
snmp-server user admin network-admin auth md5 0xb64ad6879970f0e57600c443287a79f0
priv 0xb64ad6879970f0e57600c443287a79f0 localizedkey
snmp-server community public group network-admin

vrf context management
  ip route 0.0.0.0/0 172.23.180.1
vlan 1,180,424
port-channel load-balance ethernet source-mac
port-profile default max-ports 32

vdc switch 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
```

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```

network-uplink type 5
interface GigabitEthernet1
interface GigabitEthernet2
interface GigabitEthernet3
interface GigabitEthernet4
interface GigabitEthernet5
interface GigabitEthernet6
svs-domain
  control uplink GigabitEthernet1
  management uplink GigabitEthernet1
virtual-service-blade vxgw
  virtual-service-blade-type name vx-gw-1.2
  interface gw-uplink1 uplink GigabitEthernet2
  interface gw-uplink1 mode passthrough
  interface management vlan 180
  interface management uplink GigabitEthernet1
  interface gw-uplink2 uplink GigabitEthernet3
  interface gw-uplink2 mode passthrough
  ramsize 2048
  disksize 3
  numcpu 3
  cookie 1744302105
  no shutdown primary
interface VsbEthernet1/1
interface VsbEthernet1/2
interface VsbEthernet1/3

interface mgmt0
  ip address 172.23.180.39/24

interface control0
line console
boot kickstart bootflash:/nexus-1010-kickstart-mz.4.2.1.SP1.6.1.bin
boot system bootflash:/nexus-1010-mz.4.2.1.SP1.6.1.bin
boot kickstart bootflash:/nexus-1010-kickstart-mz.4.2.1.SP1.6.1.bin
boot system bootflash:/nexus-1010-mz.4.2.1.SP1.6.1.bin
svs-domain
  domain id 3049
  control vlan 424
  management vlan 180
  svs mode L2

```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show running-config interface diff</b>	Verifies the difference between the running and startup configuration.
<b>show running-config interface port-channel</b>	Displays information about the running configuration of the port channel.

---

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## show running-config interface ethernet

To display the running configuration for a specific Ethernet interface, use the **show running-config interface ethernet** command.

**show running-config interface ethernet *slot/port***

<b>Syntax Description</b>	<i>slot/port</i>	Slot number and port number for an existing Ethernet interface.
<b>Defaults</b>	None	
<b>Command Modes</b>	Any command mode	
<b>Supported User Roles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.
<b>Examples</b>	<p>This example shows how to display the running configuration for Ethernet interface 2/1:</p> <pre>n1010# show running-config interface ethernet 2/1 version 4.0(4)SP1(1)  interface Ethernet3/2   inherit port-profile uplink_all</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show running-config interface diff</b>	Verifies the difference between the running and startup configuration.
	<b>show running-config interface port-channel</b>	Displays information about the running configuration of the port channel.

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## show running-config interface port-channel

To display the running configuration for a specific port channel, use the **show running-config interface port-channel** command.

```
show running-config interface port-channel {channel-number}
```

<b>Syntax Description</b>	<i>channel-number</i> Number of the port-channel group. The range of values is from 1 to 4096.
---------------------------	--

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

<b>Command Modes</b>	Any command mode
----------------------	------------------

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display the running configuration for port channel 10:
-----------------	--

```
n1010(config)# show running-config interface port-channel 10
version 4.0(4)SP1(1)
```

```
interface port-channel10
  switchport
  switchport mode trunk
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show running-config interface diff</b>	Verifies the difference between the running and startup configuration.
	<b>show running-config interface ethernet</b>	Displays the running configuration for a specific Ethernet interface.

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## show snmp

To display information about one or more destination profiles, use the **show snmp** command.

**show snmp** [community | context | engineID | group | host | sessions | trap | user]

Syntax Description	Parameter	Description
	<b>community</b>	(Optional) Specifies SNMP community strings.
	<b>context</b>	(Optional) Specifies SNMP context mapping entries.
	<b>engineID</b>	(Optional) Specifies the SNMP engineID.
	<b>group</b>	(Optional) Specifies the SNMP group.
	<b>host</b>	(Optional) Specifies SNMP hosts.
	<b>sessions</b>	(Optional) Specifies SNMP sessions.
	<b>trap</b>	(Optional) Specifies SNMP traps.
	<b>user</b>	(Optional) Specifies SNMPv3 users.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display information about the SNMP engineID:

```
n1010# show snmp engineID
Local SNMP engineID: [Hex] 800000090302000C000000
                    [Dec] 128:000:000:009:003:002:000:012:000:000:000
n1010#
```

Related Commands	Command	Description
	<b>snmp-server contact</b>	Configures sysContact, which is the SNMP contact name.
	<b>snmp-server location</b>	Configures sysLocation, which is the SNMP location.

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## show ssh key

To display the Secure Shell (SSH) server keys, use the **show ssh key** command.

```
show ssh key [dsa | rsa]
```

<b>Syntax Description</b>	<b>dsa</b>	(Optional) Specifies the display of DSA SSH keys.
	<b>rsa</b>	(Optional) Specifies the display of RSA SSH keys.
<b>Defaults</b>	None	
<b>Command Modes</b>	Any command mode	
<b>Supported User Roles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.
<b>Examples</b>	This example shows how to display SSH server keys:  n1010# <b>show ssh key</b> n1010#	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show ssh server</b>	Displays whether the SSH server is enabled.
	<b>ssh key</b>	Generates the SSH server key.

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## show ssh server

To display the Secure Shell (SSH) server configuration, use the **show ssh server** command.

**show ssh server**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the SSH server configuration:

```
n1010# show ssh server
ssh is enabled
version 2 enabled
n1010#
```

Related Commands	Command	Description
	show ssh key	Displays the SSH server keys.
	ssh	Creates an SSH IP session to a remote device using IP.
	ssh key	Generates the SSH server key.

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## show startup-config aaa

To display the Authentication, Authorization and Accounting protocol (AAA) configuration in the startup configuration, use the **show startup-config aaa** command.

**show startup-config aaa**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the AAA configuration in the startup configuration:

```
n1010# show startup-config aaa
version 4.0(4)SP1(1)

n1010#
```

Related Commands	Command	Description
	<b>aaa authentication login default</b>	Cconfigures the default AAA authentication methods.
	<b>show startup-config security</b>	Displays the user account configuration in the startup configuration



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## show startup-config security

To display the user account configuration in the startup configuration, use the **show startup-config security** command.

### show startup-config security

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the user account configuration in the startup configuration:

```
n1010# show startup-config security
version 4.0(4)SP1(1)
username admin password 5 $1$3/cH7rWm$W3QUjfQ0yfySds5p3/PtX. role network-admin

username kathleen password 5 $1$7vewiaFA$iLCfmalyKeSBySqrAgvNZ/ role network-op
erator
username kathleen role network-admin
telnet server enable

n1010#
```

Related Commands	Command	Description
	<b>show startup-config aaa</b>	Displays the Authentication, Authorization and Accounting protocol (AAA) configuration.

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## show svcs domain

To display domain information, such as the domain ID, control VLAN ID, and management VLAN ID for the Cisco Nexus 1010, use the **show svcs domain** command:

```
show svcs domain
```

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the Virtual Supervisor Module (VSM) domain configuration:

```
n1010# show svcs domain
SVS domain config:
  Domain id: 3555
  Control vlan: 305
  Management vlan: 233
  L2/L3 Control mode: L2
  L3 control interface: NA
  Status: Config not pushed to VC.
n1010#
```

Related Commands	Command	Description
	<b>svcs-domain</b>	Creates and configures a domain for the Cisco Nexus 1000V that identifies the VSM and Virtual Ethernet Modules (VEMs) and the control and packet VLANs for communication and management.

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## show svcs neighbors

To display all SVS neighbors, use the **show svcs neighbors** command.

**show svcs neighbors**

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display all SVS neighbors:

```
n1010# show svcs neighbors
```

```
Active Domain ID: 113
```

```
AIPC Interface MAC: 0050-56b6-2bd3
```

```
Inband Interface MAC: 0050-56b6-4f2d
```

Src MAC	Type	Domain-id	Node-id	Last learnt (Sec. ago)
0002-3d40-7102	VEM	113	0302	71441.12
0002-3d40-7103	VEM	113	0402	390.77

```
n1010#
```

Related Commands	Command	Description
	<b>show svcs domain</b>	Displays the Virtual Supervisor Module (VSM) domain configuration.
	<b>svcs-domain</b>	Creates and configures a domain for the Cisco Nexus 1000V that identifies the VSM and Virtual Ethernet Modules (VEMs) and the control and packet VLANs for communication and management.

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## show svcs domain

To display the following domain information for the Cisco Nexus 1010, use the **show svcs domain** command:

- Domain ID
- Control VLAN ID
- Management VLAN ID

**show svcs domain**

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the VSM domain configuration:

```
n1010# show svcs domain
SVS domain config:
  Domain id: 3555
  Control vlan: 305
  Management vlan: 233
  L2/L3 Control mode: L2
  L3 control interface: NA
  Status: Config not pushed to VC.
n1010#
```

Related Commands	Command	Description
	<b>svcs-domain</b>	Creates and configures a domain for the Cisco Nexus 1000V that identifies the VSM and VEMs and the control and packet VLANs for communication and management.

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## show system resources

To display system-related CPU and memory statistics, use the **show system resources** command.

**show system resources**

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display system-related CPU and memory statistics:

```
n1010# show system resources
Load average:  1 minute: 0.00   5 minutes: 0.00   15 minutes: 0.00
Processes   : 261 total, 1 running
CPU states  : 0.0% user,   0.0% kernel, 100.0% idle
Memory usage: 2075012K total,   946780K used, 1128232K free
              66764K buffers,  475404K cache

n1010#
```

Related Commands	Command	Description
	<b>show module</b>	Displays module information.
	<b>show network</b>	Displays information about the network.
	<b>show processes</b>	Displays the state and the start count of all processes

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## show tacacs-server

To display the TACACS+ server configuration, use the **show tacacs-server** command.

**show tacacs-server**

**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)SP1(1)	This command was introduced.

**Usage Guidelines** The global shared key is saved in encrypted form in the running configuration. To display the key, use the **show running-config** command.

**Examples** This example shows how to displays the TACACS+ server configuration:

```
n1010# show tacacs-server
Global TACACS+ shared secret:*****
timeout value:5
deadtime value:0
total number of servers:1
following TACACS+ servers are configured:
10.10.2.2:
available on port:49
```

Related Commands	Command	Description
	<b>show tacacs-server</b>	Displays the TACACS+ server configuration.
	<b>tacacs+ enable</b>	Enables TACACS+.
	<b>tacacs-server key</b>	Designates the global key shared between the Cisco Nexus 1000V and the TACACS+ server hosts.

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## show tcp client

To display information about the TCP client, use the **show tcp client** command.

```
show tcp client [pid pid] [detail]
```

Syntax Description	pid	(Optional) Specifies information about the client process.
	pid	ID for the specified client process.
	detail	(Optional) Specifies socket details.

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display information about the TCP client:

```
n1010# show tcp client
Total number of clients: 12
Total number of cancels: 255372
client: syslogd, pid: 2962, sockets: 2
client: ntp, pid: 3148, sockets: 2
client: dcos-xinetd, pid: 3156, sockets: 2
client: snmpd, pid: 3150, sockets: 4
client: ntpd, pid: 3243, sockets: 3
client: dcos-thttpd, pid: 3305, sockets: 2
client: radiusd, pid: 3143, sockets: 2
client: vms, pid: 3318, sockets: 0
client: dcos_sshd, pid: 3491, sockets: 3
client: vsh, pid: 3494, sockets: 0
client: in.dcos-telnetd, pid: 25028, sockets: 3
client: vsh, pid: 25029, sockets: 0
```

Related Commands	Command	Description
	show tcp connection	Displays information about the TCP connection.
	show tcp statistics	Displays TCP protocol statistics.

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## show tcp connection

To display information about the connection, use the **show tcp connection** command.

```
show tcp connection [pid pid | tcp | udp | raw] [local {srcIP | srcIP6}] [foreign {dstIP | dstIP6}]
[detail]
```

Syntax Description	pid	(Optional) Specifies the client process connection status.
	<i>pid</i>	ID for the client process connection status.
	<b>tcp</b>	(Optional) Specifies all TCP connections.
	<b>udp</b>	(Optional) Specifies all UDP connections.
	<b>raw</b>	(Optional) Specifies all RAW connections.
	<b>local</b>	(Optional) Specifies all TCP connections with a specified local address.
	<i>srcIP</i>	Local IP address in the format A.B.C.D.
	<i>srcIP6</i>	Local IP address in the format A:B::C:.D.
	<b>foreign</b>	(Optional) Specifies all TCP connections with a specified foreign address.
	<i>dstIP</i>	Destination IP address in the format A.B.C.D.
	<i>dstIP6</i>	Destination IP address in the format A:B::C:.D.
	<b>detail</b>	(Optional) Specifies detailed connection information.

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display detailed information about the connection:

```
n1010# show tcp connection detail
Total number of tcp sockets: 8
Active connections (including servers)
Local host: * (22), Foreign host: * (0)
  Protocol: tcp6, type: stream, ttl: 64, tos: 0, Id: 6
  Options: none, state:
  Receive buffer:
    cc: 0, hiwat: 25300, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 25300, lowat: 2048, flags:
```



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```
Sequence number state:
  iss: 0, snduna: 0, sndnxt: 0, sndwnd: 0
  irs: 0, rcvnxt: 0, rcvwnd: 0, sndcwnd: 1012
Timing parameters:
  srtt: 0 ms, rtt: 0 ms, rttv: 12000 ms, krtd: 3000 ms
  rttmin: 1000 ms, mss: 1012, duration: 1390144100 ms
State: LISTEN
Flags: none
Context: management

Local host: * (23), Foreign host: * (0)
Protocol: tcp6, type: stream, ttl: 64, tos: 0, Id: 17
Options: none, state:
Receive buffer:
  cc: 0, hiwat: 17204, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 17204, lowat: 2048, flags:
Sequence number state:
  iss: 0, snduna: 0, sndnxt: 0, sndwnd: 0
  irs: 0, rcvnxt: 0, rcvwnd: 0, sndcwnd: 1012
Timing parameters:
  srtt: 0 ms, rtt: 0 ms, rttv: 12000 ms, krtd: 3000 ms
  rttmin: 1000 ms, mss: 1012, duration: 1390144100 ms
State: LISTEN
Flags: none
Context: management

Local host: * (80), Foreign host: * (0)
Protocol: tcp6, type: stream, ttl: 64, tos: 0, Id: 13
Options: none, state: none
Receive buffer:
  cc: 0, hiwat: 16384, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 16384, lowat: 2048, flags:
Sequence number state:
  iss: 0, snduna: 0, sndnxt: 0, sndwnd: 0
  irs: 0, rcvnxt: 0, rcvwnd: 0, sndcwnd: 1073725440
Timing parameters:
  srtt: 0 ms, rtt: 0 ms, rttv: 12000 ms, krtd: 3000 ms
  rttmin: 1000 ms, mss: 1024, duration: 1390144100 ms
State: LISTEN
Flags: none
Context: management

Local host: * (80), Foreign host: * (0)
Protocol: tcp, type: stream, ttl: 64, tos: 0, Id: 14
Options: none, state: none
Receive buffer:
  cc: 0, hiwat: 16500, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 16500, lowat: 2048, flags:
Sequence number state:
  iss: 0, snduna: 0, sndnxt: 0, sndwnd: 0
  irs: 0, rcvnxt: 0, rcvwnd: 0, sndcwnd: 500
Timing parameters:
  srtt: 0 ms, rtt: 0 ms, rttv: 12000 ms, krtd: 3000 ms
  rttmin: 1000 ms, mss: 500, duration: 1390144100 ms
State: LISTEN
Flags: none
Context: management

Local host: * (161), Foreign host: * (0)
Protocol: tcp, type: stream, ttl: 64, tos: 0, Id: 3
Options: none, state: none
```

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```

Receive buffer:
  cc: 0, hiwat: 16384, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 16384, lowat: 2048, flags:
Sequence number state:
  iss: 0, snduna: 0, sndnxt: 0, sndwnd: 0
  irs: 0, rcvnxt: 0, rcvwnd: 0, sndcwnd: 512
Timing parameters:
  srtt: 0 ms, rtt: 0 ms, rttv: 12000 ms, krtd: 3000 ms
  rttmin: 1000 ms, mss: 512, duration: 1390144100 ms
State: LISTEN
Flags: none
Context: management

Local host: * (161), Foreign host: * (0)
Protocol: tcp6, type: stream, ttl: 64, tos: 0, Id: 5
Options: none, state: none
Receive buffer:
  cc: 0, hiwat: 16384, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 16384, lowat: 2048, flags:
Sequence number state:
  iss: 0, snduna: 0, sndnxt: 0, sndwnd: 0
  irs: 0, rcvnxt: 0, rcvwnd: 0, sndcwnd: 1073725440
Timing parameters:
  srtt: 0 ms, rtt: 0 ms, rttv: 12000 ms, krtd: 3000 ms
  rttmin: 1000 ms, mss: 1024, duration: 1390144100 ms
State: LISTEN
Flags: none
Context: management

Local host: 10.10.233.74 (22), Foreign host: 10.10.185.189 (48131)
Protocol: tcp, type: stream, ttl: 64, tos: 0, Id: 20
Options: none, state: none
Receive buffer:
  cc: 0, hiwat: 17500, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 17500, lowat: 2048, flags:
Sequence number state:
  iss: 3575780911, snduna: 3576001996, sndnxt: 3576001996, sndwnd: 32767
  irs: 905490047, rcvnxt: 905574926, rcvwnd: 17500, sndcwnd: 1953
Timing parameters:
  srtt: 700 ms, rtt: 0 ms, rttv: 0 ms, krtd: 1000 ms
  rttmin: 1000 ms, mss: 500, duration: 1390101600 ms
State: ESTABLISHED
Flags: none
Context: management

Local host: 10.10.233.74 (23), Foreign host: 10.10.22.107 (35030)
Protocol: tcp, type: stream, ttl: 64, tos: 0, Id: 18
Options: none, state: none
Receive buffer:
  cc: 0, hiwat: 17500, lowat: 1, flags: none
Send buffer:
  cc: 0, hiwat: 17500, lowat: 2048, flags:
Sequence number state:
  iss: 3273730667, snduna: 3273793065, sndnxt: 3273793065, sndwnd: 32767
  irs: 3760023047, rcvnxt: 3760024636, rcvwnd: 17500, sndcwnd: 25095
Timing parameters:
  srtt: 700 ms, rtt: 0 ms, rttv: 0 ms, krtd: 1000 ms
  rttmin: 1000 ms, mss: 500, duration: 467168700 ms
State: ESTABLISHED
Flags: none
Context: management

```

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```
Total number of udp sockets: 11
Active connections (including servers)
Local host: * (123), Foreign host: * (0)
  Protocol: udp6, type: dgram, ttl: 64, tos: 0, Id: 11
  Options: none, state: none
  Receive buffer:
    cc: 0, hiwat: 42240, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 9216, lowat: 2048, flags:
  Context: management

Local host: * (123), Foreign host: * (0)
  Protocol: udp, type: dgram, ttl: 64, tos: 0x10, Id: 10
  Options: none, state: none
  Receive buffer:
    cc: 0, hiwat: 42240, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 9216, lowat: 2048, flags:
  Context: management

Local host: * (161), Foreign host: * (0)
  Protocol: udp, type: dgram, ttl: 64, tos: 0, Id: 1
  Options: none, state:
  Receive buffer:
    cc: 0, hiwat: 131072, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 131072, lowat: 2048, flags:
  Context: management

Local host: * (161), Foreign host: * (0)
  Protocol: udp6, type: dgram, ttl: 64, tos: 0, Id: 2
  Options: none, state:
  Receive buffer:
    cc: 0, hiwat: 131072, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 131072, lowat: 2048, flags:
  Context: management

Local host: 127.0.0.1 (123), Foreign host: * (0)
  Protocol: udp, type: dgram, ttl: 64, tos: 0x10, Id: 12
  Options: none, state: none
  Receive buffer:
    cc: 0, hiwat: 42240, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 9216, lowat: 2048, flags:
  Context: management

Local host: 127.0.0.1 (130), Foreign host: * (0)
  Protocol: udp, type: dgram, ttl: 64, tos: 0, Id: 9
  Options: none, state:
  Receive buffer:
    cc: 0, hiwat: 42240, lowat: 1, flags: none
  Send buffer:
    cc: 0, hiwat: 9216, lowat: 2048, flags:
  Context: management

Local host: 127.0.0.1 (27613), Foreign host: 127.0.0.1 (123)
  Protocol: udp, type: dgram, ttl: 64, tos: 0, Id: 8
  Options: , state: none
  Receive buffer:
    cc: 0, hiwat: 42240, lowat: 1, flags:
  Send buffer:
    cc: 0, hiwat: 9216, lowat: 2048, flags:
```

**show tcp connection**

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Context: management

Total number of raw sockets: 0

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show tcp client</b>	Displays information about the TCP client.
<b>show tcp statistics</b>	Displays TCP protocol statistics.
<b>show telnet server</b>	Displays the Telnet server configuration.

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## show tcp statistics

To display TCP protocol statistics, use the **show tcp statistics** command.

```
show tcp statistics [all | tcp4 | tcp6 | tcpsum | udp4 | udp6 | udpsum | raw4 | raw6 | rawsum]
```

Syntax Description		
<b>all</b>	(Optional) Specifies all TCPv4, TCPv6, UDPv4, UDPv6, RAWv4, and RAWv6 protocol statistics.	
<b>tcp4</b>	(Optional) Specifies TCPv4 protocol statistics.	
<b>tcp6</b>	(Optional) Specifies TCPv6 protocol statistics.	
<b>tcpsum</b>	(Optional) Specifies the sum of TCPv4 and TCPv6 protocols statistics.	
<b>udp4</b>	(Optional) Specifies UDPv4 protocol statistics.	
<b>udp6</b>	(Optional) Specifies UDPv6 protocol statistics.	
<b>udpsum</b>	(Optional) Specifies the sum of UDPv4 and UDPv6 protocols statistics.	
<b>raw4</b>	(Optional) Specifies RAWv4 protocol statistics.	
<b>raw6</b>	(Optional) Specifies RAWv6 protocol statistics.	
<b>rawsum</b>	(Optional) Specifies the sum of RAWv4 and RAWv6 protocols statistics.	

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display TCP protocol statistics:

```
n1010# show tcp statistics
TCP Received:
  479908 packets total
  0 checksum error, 0 bad offset, 0 too short, 0 MD5 error
  232451 packets (72213943 bytes) in sequence
  195 duplicate packets (192 bytes)
  0 partially dup packets (0 bytes)
  8652 out-of-order packets (0 bytes)
  0 packets (0 bytes) with data after window
  2 packets after close
  0 window probe packets, 0 window update packets
  44339 duplicate ack packets, 0 ack packets with unseq data
  252581 ack packets (103465405 bytes)
```

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```
TCP Sent:
  533421 total, 0 urgent packets
  94694 control packets
  326430 data packets (105082025 bytes)
  90 data packets (22114 bytes) retransmitted
  105144 ack only packets
  34 window probe packets, 7029 window update packets

TCP:
44330 connections initiated, 6715 connections accepted, 50669 connections established
51045 connections closed (including 165 dropped, 376 embryonic dropped)
3067 total rxmt timeout, 0 connections dropped in rxmt timeout
463 keepalive timeout, 92 keepalive probe, 371 connections dropped in keepalive
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show tcp client</b>	Displays information about the TCP client.
<b>show tcp connection</b>	Displays information about the TCP connection.

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## show tech-support

To collect switch information for Cisco TAC to assist you in diagnosing issues, use the **show tech-support** command.

```
show tech-support {nexus1010 | ipv6 | svcs | aaa}
```

Syntax Description		
<b>nexus1010</b>	Gathers technical support information regarding the Cisco Nexus 1010.	
<b>ipv6</b>	Displays IPv6 information, such as IPv6 static routes and traffic statistics.	
<b>svcs</b>	Displays SVS information, such as interface and software configurations.	
<b>aaa</b>	Displays Authentication, Authorization and Accounting (AAA) events and statistical information.	

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to collect switch information for Cisco TAC regarding IPv6 issues:

```
n1010# show tech-support nexus1010
`show hardware`
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
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

Software
  loader:      version unavailable [last: image booted through mgmt0]
  kickstart:  version 4.0(4)SP1(1)
  system:     version 4.0(4)SP1(1)
  kickstart image file is:
  kickstart compile time:  4/4/2010 22:00:00
  system image file is:    bootflash:/nexus-1010-mz.4.0.4.SP1.1.bin
  system compile time:     4/4/2010 22:00:00 [04/05/2010 11:15:52]
```

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```
Hardware
Cisco Nexus 1010 Chassis ("Cisco Nexus1010 Chassis")
  with 14666752 kB of memory.
Device name: cppa-mgr
bootflash:      3897832 kB
Disk Storage capacity for VM virtual disks: 346335 GB
Number of physical 1Gbps ethernet ports: 6
Number of CPU Cores: 12
CPU Cores details:
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
model name      : Intel(R) Xeon(R) CPU           E5520 @ 2.27GHz
```

```
Kernel uptime is 2 day(s), 15 hour(s), 25 minute(s), 34 second(s)
```

```
plugin
```

```
Core Plugin, Ethernet Plugin
```

```
-----
Switch hardware ID information
-----
```

```
Switch is booted up
```

```
Switch type is : Nexus 1010 Chassis
Model number is Nexus 1010
Manufacture date is 03/09/2010
PID-VID-SN: R200-1120402-.-3536887121268865265
UUID is 208F4277-020F-BADB-ADBE-A80000DEAD00
```

```
-----
Chassis has 2 Module slots
-----
```

```
Module1 ok
```

```
Module type is : Cisco Nexus1010 Chassis
0 submodules are present
Model number is Nexus 1010
H/W version is .
Manufacture Date is Year 0 Week 3
Serial number is T023D741D01
```

```
Module2 ok
```

```
Module type is : Cisco Nexus1010 Chassis
0 submodules are present
Model number is Nexus 1010
H/W version is .
Manufacture Date is Year 0 Week 3
Serial number is T023D741D81
```

```
`show system internal resources`
```

```
Load Average: 1 minute: 0.07 5 minutes: 0.02 15 minutes: 0.00
Processes : 168 total, 1 running
CPU States : 0.2 user, 0.0 kernel, 99.8 idle
```



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```
Memory Usage: 16323844K total, 2605340K used, 13718504K free
              416K buffers, 518240K cache
Repository   : 121115568K total, 554484K used (1-percent), 114457188K free
Storage      : 362335928K total, 983828K used (1-percent), 343091420K free
`show virtual-service-blade summary`
```

```
-----
Name          Role      State      Nexus1010-Module
-----
vsm-1         PRIMARY  VSB POWERED ON  Nexus1010-PRIMARY
vsm-1         SECONDARY VSB POWERED ON  Nexus1010-SECONDARY
```

```
`show virtual-service-blade `
virtual-service-blade vsm-1
```

```
Description:
```

```
Slot id:      1
Host Name:    vsm-1
Management IP: 10.78.108.40
VSB Type Name : VSM-1.0
Interface:    control  vlan: 1044
Interface:    management  vlan: 1032
Interface:    packet    vlan: 1045
Interface:    internal  vlan:  NA
Ramsize:      2048
Disksize:     3
Heartbeat:    127579
HA Admin role: Primary
  HA Oper role: STANDBY
  Status:      VSB POWERED ON
  Location:    PRIMARY
  SW version:  4.0(4)SP1(1)
HA Admin role: Secondary
  HA Oper role: ACTIVE
  Status:      VSB POWERED ON
  Location:    SECONDARY
  SW version:  4.0(4)SP1(1)
VSB Info:
  Domain ID : 1054
```

```
`show network`
```

```
GigabitEthernet1 is up
```

```
Hardware: Ethernet, address: 0022.bdcf.cfde (bia 0022.bdcf.cfde)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  474204 packets input, 76658996 bytes
  13376 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  2 packets output, 168 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

```
GigabitEthernet2 is up
```

```
Hardware: Ethernet, address: 0022.bdcf.cfde (bia 0022.bdcf.cfde)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  5616986 packets input, 695991717 bytes
  3651124 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  2019700 packets output, 536582585 bytes
```

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```
0 underrun, 0 output errors, 0 collisions
0 fifo, 0 carrier errors
```

```
GigabitEthernet3 is up
Hardware: Ethernet, address: 0010.185b.fdd8 (bia 0010.185b.fdd8)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  8709 packets input, 1087172 bytes
  7622 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  7622 packets output, 975374 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

```
GigabitEthernet4 is up
Hardware: Ethernet, address: 0010.185b.fdd8 (bia 0010.185b.fdd8)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  8711 packets input, 1087000 bytes
  7617 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  7617 packets output, 974976 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

```
GigabitEthernet5 is up
Hardware: Ethernet, address: 0010.185b.fdd8 (bia 0010.185b.fdd8)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  8861 packets input, 1097728 bytes
  7616 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  7616 packets output, 974848 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

```
GigabitEthernet6 is up
Hardware: Ethernet, address: 0010.185b.fdd8 (bia 0010.185b.fdd8)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  8863 packets input, 1097612 bytes
  7616 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  7616 packets output, 974848 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

```
PortChannell is up
Hardware: Ethernet, address: 0022.bdcd.cfde (bia 0022.bdcd.cfde)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
```

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```
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  6091191 packets input, 772651337 bytes
  3664500 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  2019702 packets output, 536582753 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

PortChannel2 is up
Hardware: Ethernet, address: 0010.185b.fdd8 (bia 0010.185b.fdd8)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  35144 packets input, 4369512 bytes
  30471 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  30471 packets output, 3900046 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

VbEthernet1/1 is up
Hardware: Ethernet, address: 0002.3d74.1d83 (bia 0002.3d74.1d83)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  1007113 packets input, 267568821 bytes
  0 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  1091173 packets output, 236791139 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

VbEthernet1/2 is up
Hardware: Ethernet, address: 0002.3d74.1d82 (bia 0002.3d74.1d82)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  2634 packets input, 525675 bytes
  0 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  117582 packets output, 7936300 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

VbEthernet1/3 is up
Hardware: Ethernet, address: 0002.3d74.1d84 (bia 0002.3d74.1d84)
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
full-duplex, 1000 Mb/s
Auto-Negotiation is turned on
  0 packets input, 0 bytes
  0 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  113563 packets output, 7268200 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

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```

`show redundancy status`
Redundancy mode
-----
      administrative:  HA
      operational:    HA

This supervisor (sup-2)
-----
      Redundancy state:  Active
      Supervisor state:  Active
      Internal state:    Active with HA standby

Other supervisor (sup-1)
-----
      Redundancy state:  Standby

      Supervisor state:  HA standby
      Internal state:    HA standby

System start time:          Wed Mar 17 23:17:15 2010

System uptime:              2 days, 15 hours, 26 minutes, 41 seconds
Kernel uptime:             2 days, 15 hours, 26 minutes, 26 seconds
Active supervisor uptime:  1 days, 11 hours, 27 minutes, 17 seconds
`show system internal redundancy status`
MyState:RDN_ST_AC
Other State:RDN_ST_SB
Other state from reg:RDN_ST_SB(3)
State:RDN_DRV_ST_AC_SB
Slot:2
Num failures to send MTS message:0
`show system internal redundancy info`
My CP:
  slot: 1
  domain: 1053
  role: secondary
  status: RDN_ST_AC
  state: RDN_DRV_ST_AC_SB
  intr: enabled
  power_off_reqs: 0
  reset_reqs: 1
Other CP:
  slot: 0
  status: RDN_ST_SB
  active: true
  ver_rcvd: true
  degraded_mode: false
Redun Device 0:
  name: ha0
  pdev: eda54240
  alarm: false
  mac: 00:02:3d:74:1d:00
  tx_set_ver_req_pkts: 291
  tx_set_ver_rsp_pkts: 3
  tx_heartbeat_req_pkts: 127356
  tx_heartbeat_rsp_pkts: 100709
  rx_set_ver_req_pkts: 3
  rx_set_ver_rsp_pkts: 0
  rx_heartbeat_req_pkts: 100709
  rx_heartbeat_rsp_pkts: 127349
  rx_drops_wrong_domain: 0
  rx_drops_wrong_slot: 0
  rx_drops_short_pkt: 0

```

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```

rx_drops_queue_full: 0
rx_drops_inactive_cp: 0
rx_drops_bad_src: 0
rx_drops_not_ready: 0
rx_unknown_pkts: 0
Redun Device 1:
  name: ha1
  pdev: ed9d3ac0
  alarm: true
  mac: ff:ff:ff:ff:ff:ff
  rx_unknown_pkts: 0
Redun Device 1:
  name: ha1
  pdev: ed9d3ac0
  alarm: true
  mac: ff:ff:ff:ff:ff:ff
  tx_set_ver_req_pkts: 281
  tx_set_ver_rsp_pkts: 1
  tx_heartbeat_req_pkts: 3
  tx_heartbeat_rsp_pkts: 1
  rx_set_ver_req_pkts: 1
  rx_set_ver_rsp_pkts: 0
  rx_heartbeat_req_pkts: 1
  rx_heartbeat_rsp_pkts: 0
  rx_drops_wrong_domain: 0
  rx_drops_wrong_slot: 0
  rx_drops_short_pkt: 0
  rx_drops_queue_full: 0
  rx_drops_inactive_cp: 0
  rx_drops_bad_src: 0
  rx_drops_not_ready: 0
  rx_unknown_pkts: 0
n1010#

```

#### Related Commands

Command	Description
<b>logging logfile</b>	Configures the log file used to store system messages.
<b>show logging logfile</b>	Displays the contents of the log file.

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## show telnet server

To display the Telnet server configuration, use the **show telnet server** command.

**show telnet server**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the Telnet server configuration:

```
n1010# show telnet server
telnet service enabled
n1010#
```

Related Commands	Command	Description
	<b>show tcp connection</b>	Displays information about the connection.
	<b>telnet</b>	Uses Telnet to connect to another system.

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## show terminal

To display the terminal settings for the current session, use the **show terminal** command.

**show terminal**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the terminal settings for the current session:

```
n1010# show terminal
TTY: /dev/pts/8 type: "vt100"
Length: 24 lines, Width: 88 columns
Session Timeout: None
n1010#
```

Related Commands	Command	Description
	<b>line console</b>	Puts you in console configuration mode.
	<b>line vty</b>	Puts you in line configuration mode.
	<b>terminal length</b>	Sets the number of lines on the screen.
	<b>terminal terminal-type</b>	Sets the terminal type.
	<b>terminal width</b>	Sets the width of the display terminal.

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## show user-account

To display user account configuration, use the **show user-account** command.

```
show user-account [username]
```

<b>Syntax Description</b>	<i>username</i> (Optional) Name of a user with an existing account.
---------------------------	---

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

<b>Command Modes</b>	Any command mode
----------------------	------------------

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display user account configuration for the user named NewUser:
-----------------	--

```
n1010(config)# show user-account NewUser
user:NewUser
this user account has no expiry date
roles:network-operator network-admin
n1010(config)#
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>role name</b>	Names a user role and places you in role configuration mode for that role.
	<b>show users</b>	Displays the current users logged in the system.



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## show users

To display information about the user session, use the **show users** command.

**show users**

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display information about the user session:

```
n1010# show users
NAME      LINE      TIME          IDLE          PID COMMENT
admin     pts/17    Dec 16 06:37  .            30406 (172.28.254.254) session=ss

h
admin     pts/18    Jan  3 19:01  .            3847 (sjc-vpn5-786.cisco.com) *
n1010#
```

Related Commands	Command	Description
	<b>role name</b>	Names a user role and places you in role configuration mode for that role.
	<b>show user-account</b>	Displays the new user account configuration.

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## show version

To display the versions of system software and hardware that are currently running on the switch, use the **show version** command.

**show version [module]**

<b>Syntax Description</b>	<b>module</b> (Optional) Specifies the software version of a module.				
<b>Defaults</b>	None				
<b>Command Modes</b>	Any command mode				
<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>4.0(4)SP1(1)</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	4.0(4)SP1(1)	This command was introduced.
Release	Modification				
4.0(4)SP1(1)	This command was introduced.				

### Examples

This example shows how to display the versions of system software and hardware that are currently running on the switch:

```
n1010# show version
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2009, 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

Software
  loader:    version 1.2(2) [last: image booted through mgmt0]
  kickstart: version 4.0(4)SP1(1)
  system:    version 4.0(4)SP1(1)
  kickstart image file is:
  kickstart compile time:  9/22/2009 2:00:00
  system image file is:    bootflash:/nexus-1000v-mz.4.0.4.SV1.2.bin
  system compile time:     9/22/2009 2:00:00 [10/07/2009 10:11:01]

Software
  loader:    version 1.2(2) [last: image booted through mgmt0]
  kickstart: version 4.0(4)SP1(1)
  system:    version 4.0(4)SP1(1)
```

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```
kickstart image file is:
kickstart compile time: 9/22/2009 2:00:00
system image file is:   bootflash:/nexus-1000v-mz.4.0.4.SV1.2.bin
system compile time:   9/22/2009 2:00:00 [10/07/2009 10:11:01]
```

#### Hardware

```
Cisco Nexus 1000V Chassis ("Virtual Supervisor Module")
Intel(R) Xeon(R) CPU          with 2075012 kB of memory.
Processor Board ID T5056B645A8
```

```
Device name: n1000v
bootflash:    2332296 kB
```

```
Kernel uptime is 79 day(s), 0 hour(s), 24 minute(s), 55 second(s)
```

#### plugin

```
Core Plugin, Ethernet Plugin
n1010#
```

### Related Commands

Command	Description
<b>show running-config diff</b>	Displays the difference between the startup configuration and the running configuration currently on the switch.
<b>show version image</b>	Displays the versions of system software and hardware that are currently running on the switch.

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## show version image

To display the software version of a given image, use the **show version** command.

```
show version image {bootflash: URI | volatile: URI}
```

Syntax Description	Parameter	Description
	<b>bootflash:</b>	Specifies bootflash as the directory name.
	<i>URI</i>	URI of the system where the image resides.
	<b>volatile:</b>	Specifies volatile as the directory name.

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

Command Modes	Any command mode
---------------	------------------

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display the versions of system software and hardware that are currently running on the switch:

```
n1010# show version image bootflash:isan.bin
  image name: nexus-1000v-mz.4.0.4.SV1.1.bin
  bios: version unavailable
  system: version 4.0(4)SV1(1)
  compiled: 4/2/2009 23:00:00 [04/23/2009 09:55:29]
n1010#
```

Related Commands	Command	Description
	<b>show running-config diff</b>	Displays the difference between the startup configuration and the running configuration currently on the switch.
	<b>show version</b>	Displays the software version of a given image.

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## show virtual-service-blade

To display information about virtual services, use the **show virtual-service-blade** command.

**show virtual-service-blade** [**name** *vsb-name* | **summary**]

Syntax Description	name	Specifies the name of a virtual service.
	<i>vsb-name</i>	Name of an existing virtual service.
	<b>summary</b>	Specifies summary information about all virtual services, such as their role, state, and module.

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

Command Modes	Any command mode
---------------	------------------

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

Command History	Release	Modification
	4.2(1)SP1(3)	This command was modified to include the VSB Ethernet information, vlan, and interface status details
	4.0(4)SP1(1)	This command was introduced.

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## Examples

This example shows how to display information about the virtual service named VSM-1:

```
n1010# show virtual-service-blade name VSM1
virtual-service-blade VSM1
  Description:
  Slot id:      1
  Host Name:    VSM1
  Management IP:
  VSB Type Name : VSM-1.1
  vCPU:        1
  Ramsize:     2048
  Disksize:    3
  Heartbeat:   14514
  HA Admin role: Primary
    HA Oper role: NONE
    Status:      VSB POWERED OFF
    Location:    PRIMARY
    SW version:  4.2(1)SV1(4a)
  VsbEthernet1/1/1: control   vlan: 1306   state: up
  VsbEthernet1/1/2: management vlan: 1304   state: up
  VsbEthernet1/1/3: packet    vlan: 1307   state: up
  Interface:      internal    vlan: NA     state: up
  HA Admin role: Secondary
    HA Oper role: NONE
    Status:      VSB POWERED OFF
    Location:    SECONDARY
    SW version:
  VsbEthernet2/1/1: control   vlan: 1306   state: up
  VsbEthernet2/1/2: management vlan: 1304   state: up
  VsbEthernet2/1/3: packet    vlan: 1307   state: up
  Interface:      internal    vlan: NA     state: up
  VSB Info:
    Domain ID : 1306
n1010#
```

This example shows how to display a summary of all virtual service blade configurations:

```
n1010# show virtual-service-blade summary
```

```
-----
Name                Role        State                Nexus1010-Module
-----
vsm-1                PRIMARY    VSB POWERED ON      Nexus1010-PRIMARY
vsm-1                SECONDARY  VSB POWERED ON      Nexus1010-SECONDARY
vsm-2                PRIMARY    VSB NOT PRESENT     Nexus1010-PRIMARY
vsm-2                SECONDARY  VSB POWERED ON      Nexus1010-SECONDARY
vsm-3                PRIMARY    VSB NOT PRESENT     Nexus1010-PRIMARY
vsm-3                SECONDARY  VSB POWERED ON      Nexus1010-SECONDARY
vsm-4                PRIMARY    VSB POWERED ON      Nexus1010-PRIMARY
vsm-4                SECONDARY  VSB POWERED ON      Nexus1010-SECONDARY
vsm-5                PRIMARY    VSB POWERED OFF     Nexus1010-PRIMARY
vsm-5                SECONDARY  VSB POWERED OFF     Nexus1010-SECONDARY
n1010#
```

## Related Commands

Command	Description
<b>show network</b>	Displays information about the network.
<b>show virtual-service-blade-type summary</b>	Displays a summary of all virtual service configurations by type, such as Virtual Supervisor Module (VSM) or Network Analysis and Monitoring (NAM).

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## show virtual-service-blade-type summary

To display a summary of all virtual service configurations by type, such as Virtual Supervisor Module (VSM) or Network Analysis and Monitoring (NAM), use the **show virtual-service-blade-type summary** command.

### show virtual-service-blade-type summary

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** The following example shows a summary of all virtual service configurations by type:

```
n1010# show virtual-service-blade-type summary
```

```
-----
Virtual-Service-Blade-Type   Virtual-Service-Blade
-----
VSM_SV1_3                   VSM-1
                              VSM-2
                              VSM-3
                              VSM-4
NAM-MV                       NAM
n1010#
```

The following example shows the virtual-service-blade-type summary information when different versions of a VSB are deployed:

```
n1010# show virtual-service-blade-type summary
```

```
-----
Virtual-Service-Blade-Type   Virtual-Service-Blade
-----
VSM-1.0                     SV14
                              ESX-UCS
NAM-1.0                      nam
VSM-1.2                     SV15
NAM-1.1                      NAM5
VSM-1.1                     SV
```

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**Note**

In the example above, the numbers (in bold) appended to the Virtual Service Blade Type indicate the template version numbers associated with a VSB. The template version numbers could be the same in two or more releases of a VSB and are modified only when the content in the template is changed. Nexus 1010 stores only one instance of the template to the database and displays the template version number of that instance in the virtual-service-blade type summary information. Therefore, when you deploy two VSBs with the same template version, you will see only one instance and its associated name in the VSB type summary column in the output to this command.

**Related Commands**

Command	Description
<b>show network</b>	Displays information about the network.
<b>show virtual-service-blade</b>	Displays information about virtual services.



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## show virtual-service-blade statistics

To display information about statistics for virtual service blades, use the **show virtual-service-blade statistics** command.

**show virtual-service-blade** [**name** *vsb-name*] **statistics**

Syntax Description	name	Specifies the name of a virtual service blade.
	<i>vsb-name</i>	Name of an existing virtual service blade.
	<b>statistics</b>	Specifies statistics information about all running virtual service blades, such as current utilization of CPU, memory, last reboot time, number of reboots, and timestamp of the last heartbeat received for every VSB.

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.2(1)SP1(5.1)	This command was introduced.

**Examples** This example shows how to display information about statistics for VSB:

```
switch# show virtual-service-blade name VSM statistics

virtual-service-blade: VSM
  Virtual Memory: 2297m
  Physical Memory: 1.1g
  CPU Usage Percentage: 4.0
  Up Since: Mon Sep 10 16:05:21 2012
  Number of Restarts: 1
  Last heartbeat received at: Thu Sep 13 09:11:17 2012
```

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## show virtual-service-domain brief

Command	Description
<b>show network</b>	Displays information about the network.
<b>show virtual-service-blade-type summary</b>	Displays a summary of all virtual service configurations by type, such as Virtual Supervisor Module (VSM) or Network Analysis and Monitoring (NAM).

  

Command	Description
<b>show network</b>	Displays information about the network.
<b>show virtual-service-blade-type summary</b>	Displays a summary of all virtual service configurations by type, such as Virtual Supervisor Module (VSM) or Network Analysis and Monitoring (NAM).

To display a list of the Virtual Service Domains (VSDs) currently configured in a Virtual Supervisor Module (VSM), including VSD names and port profiles, use the **show virtual-service-domain brief** command.

### show virtual-service-domain brief

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

**Defaults** None

**Command Modes** Any command mode

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

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display a list of the VSDs currently configured in a VSM:

```
n1010# show virtual-service-domain brief
Name          default action  in-ports  out-ports  mem-ports
vsd1          drop           1         1         4
vsd2          forward        1         1         0
vsim-cp# sho virtual-service-domain interface
-----
Name          Interface      Type      Status
-----
vsd1          Vethernet1    Member   Active
vsd1          Vethernet2    Member   Active
vsd1          Vethernet3    Member   Active
vsd1          Vethernet6    Member   Active
```

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```

vsd1          Vethernet7      Inside  Active
vsd1          Vethernet8      Outside Active
vsd2          Vethernet9      Inside  Active
vsd2          Vethernet10    Outside Active
vsim-cp# show virtual-service-domain name vsd1
Default Action: drop

```

Interface	Type
Vethernet1	Member
Vethernet2	Member
Vethernet3	Member
Vethernet6	Member
Vethernet7	Inside
Vethernet8	Outside

```

n1010#

```

#### Related Commands

Command	Description
<b>virtual-service-domain</b>	Creates a Virtual Service Domain (VSD) that classifies and separates traffic for network services.

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## show virtual-service-domain interface

To display the interfaces currently assigned to the Virtual Service Domains (VSDs) in a Virtual Supervisor Module (VSM), use the **show virtual-service-domain interface** command.

### show virtual-service-domain interface

**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)SP1(1)	This command was introduced.

**Examples** This example shows how to display the interfaces currently assigned to the VSDs in a VSM:

```
n1010# show virtual-service-domain interface
```

Name	Interface	Type	Status
vsd1	Vethernet1	Member	Active
vsd1	Vethernet2	Member	Active
vsd1	Vethernet3	Member	Active
vsd1	Vethernet6	Member	Active
vsd1	Vethernet7	Inside	Active
vsd1	Vethernet8	Outside	Active
vsd2	Vethernet9	Inside	Active
vsd2	Vethernet10	Outside	Active

Related Commands	Command	Description
	<b>virtual-service-domain</b>	Creates a virtual service domain that classifies and separate traffic for network services.

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## show virtual-service-domain name

To display a specific Virtual Service Domain (VSD) currently configured in a Virtual Supervisor Module (VSM), including associated port profiles, use the **show virtual-service-domain name** command.

**show virtual-service-domain name** *virtual-service-domain\_name*

<b>Syntax Description</b>	<i>virtual-service-domain_name</i> Name of the VSD.
---------------------------	---

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

<b>Command Modes</b>	Any command mode
----------------------	------------------

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display a specific VSD configuration:
-----------------	---

```
n1010# show virtual-service-domain name vsd1
Default Action: drop
```

Interface	Type
Vethernet1	Member
Vethernet2	Member
Vethernet3	Member
Vethernet6	Member
Vethernet7	Inside
Vethernet8	Outside

```
n1010#
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>virtual-service-domain</b>	Creates a virtual service domain that classifies and separate traffic for network services.

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## show xml server status

To display information about XML server settings and any active XML server sessions, use the **show xml server status** command.

**show xml server status**

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to display information about XML server settings and any active XML server sessions:

```
n1010# show xml server status
operational status is enabled
maximum session configured is 8
n1010#
```

Related Commands	Command	Description
	<b>xml server max-session</b>	Sets the number of allowed XML server sessions.
	<b>xml server terminate session</b>	Terminates the specified XML server session.