



# Show Commands

---

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

# 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:

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

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.

# 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:

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

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

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

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

```
switch# 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.

# 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.

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

```
switch# 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.

---

# 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*]

<b>Syntax Description</b>	<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

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

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

```
switch# 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)#
```

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

```
switch# 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:

```
switch(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
<code>clear accounting log</code>	Clears the accounting log.

# 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:

```
switch(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.

---

# 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:

```
switch# 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
switch(config)#
```



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.

# 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 Cloud Services Platform 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 Cloud Services Platform 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:

```
switch(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
```

```

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:

```

switch(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.

# 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>Supported User Roles</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>switch# 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 switch#</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.						

# 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:

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

Related Commands	Command	Description
	show processes	Displays information regarding process logs.

# 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:

```
switch# 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
```

**Related Commands**

<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.

# 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

**SupportedUserRoles** 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:

```
switch# 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) --
switch#
```

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 status</b>	Displays the interface line status.



# 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:

```
switch# 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
  UDLD:                 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
```

```

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)

```

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

```
switch#
```

**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 status</b>	Displays the interface line status.

# 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:

```
switch# show interface status up
```

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

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 capabilities</b>	Displays information about the capabilities of the interfaces.

# 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:

```
switch(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.

# show hardware

To display the hardware details, use the **show hardware** command.

## show hardware

**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
	5.2(1)SP1(7.1)	This command was updated.
	4.2(4)SP1(4)	This command was introduced.

**Examples** This example shows how to display the hardware details:

```
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Documents: http://www.cisco.com/en/US/products/ps9372/tsd_products_support_series_home.html
Copyright (c) 2002-2014, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained herein are owned by
other third parties and are used and distributed under license.
Some parts of this software are covered under the GNU Public
License. A copy of the license is available at
http://www.gnu.org/licenses/gpl.html.
```

```
Software
kickstart: version 5.2(1)SP1(7.1)
system:      version 5.2(1)SP1(7.1)
kickstart image file is: bootflash:///nexus-1010-kickstart.5.2.1.SP1.7.1.bin
kickstart compile time: 5/15/2014 1:00:00 [05/15/2014 10:02:45]
system image file is:   bootflash:///nexus-1010.5.2.1.SP1.7.1.bin
system compile time:   5/15/2014 1:00:00 [05/15/2014 10:13:48]
```

```
Hardware
cisco Nexus 1010 (Virtual Services Appliance) 2 slot Chassis ("Cisco Virtual S
ervices Appliance")
with 12582912 kB of memory.
Processor Board ID T023D710B01
```

```
Device name: switch
```

```

bootflash:      3897832 kB
Disk Storage capacity for VM virtual disks: 336264 MB
Number of physical 1Gbps ethernet ports: 6
Number of physical 10Gbps ethernet ports: 0
Number of SSL accelerator card: 0
Number of CPU Cores: 12
CPU Cores details:
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz
model name      : Intel(R) Xeon(R) CPU           X5650 @ 2.67GHz

```

System uptime is 0 days, 13 hours, 43 minutes, 55 seconds

Kernel uptime is 0 day(s), 13 hour(s), 44 minute(s), 56 second(s)

plugin

Core Plugin, Ethernet Plugin, Virtualization Plugin

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

Switch is booted up

Switch type is : Nexus 1010 (Virtual Services Appliance) 2 slot Chassis  
Model number is Nexus 1010  
PID-VID-SN: N1K-C1010-A-7911922711400115374

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

Module1 ok

Module type is : Cisco Virtual Services Appliance  
0 submodules are present  
Model number is Nexus 1010  
H/W version is A  
UUID is 03BB2905-E130-DF11-68A1-68EFBDF61D42  
Manufacture date is 12/21/2011  
Serial number is QCI1410A4WG

Module2 ok

Module type is : Cisco Virtual Services Appliance  
0 submodules are present  
Model number is Nexus 1010  
H/W version is A  
UUID is 21E65B27-5432-DF11-44BB-68EFBDF6192E  
Manufacture date is 08/08/2010  
Serial number is QCI1410A4KV

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



# 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:

```
switch# 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
switch#
```

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

# 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

**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 for logging module messages to the log file:

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

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

# 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:

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

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

# 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:

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

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

# 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:

```
switch# 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
switch#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show svcs domain</b>	Displays the domain information for the Cisco Nexus Cloud Services Platform, 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.

# show network

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

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

Syntax Description		
<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.

**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.
	5.2(1)SP1(7.1)	This command was updated.

**Examples**

This example shows how to display the network interface port-channel information:

```
switch# show network
Ethernet1 is up
  Hardware: Ethernet, address: c08c.6015.7004 (bia c08c.6015.7004)
  MTU 9000 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
    37982681 packets input, 10816708372 bytes
    140672 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    33187333 packets output, 10279688297 bytes
    0 underrun, 0 output errors, 0 collisions
    0 fifo, 0 carrier errors

Ethernet2 is up
  Hardware: Ethernet, address: c08c.6015.7004 (bia c08c.6015.7004)
  MTU 9000 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
    5716278 packets input, 829156595 bytes
    121230 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    8045 packets output, 1147716 bytes
    0 underrun, 0 output errors, 0 collisions
    0 fifo, 0 carrier errors

Ethernet7 is up
  Hardware: Ethernet, address: c08c.6077.f1d1 (bia c08c.6077.f1d1)
  MTU 9000 bytes, BW 10000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA
  full-duplex, 10000 Mb/s
  Auto-Negotiation is turned on
    7998144 packets input, 1151825878 bytes
    479295 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    8051 packets output, 1180396 bytes
    0 underrun, 0 output errors, 0 collisions
    0 fifo, 0 carrier errors

Ethernet8 is up
  Hardware: Ethernet, address: c08c.6077.f1d1 (bia c08c.6077.f1d1)
  MTU 9000 bytes, BW 10000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA
  full-duplex, 10000 Mb/s
  Auto-Negotiation is turned on
    7998147 packets input, 1151826130 bytes
    479295 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    8048 packets output, 1180146 bytes
    0 underrun, 0 output errors, 0 collisions
    0 fifo, 0 carrier errors

PortChannell1 is up
  Hardware: Ethernet, address: c08c.6015.7004 (bia c08c.6015.7004)
  MTU 9000 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
  43698959 packets input, 11645864967 bytes
  261902 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  33195378 packets output, 10280836013 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

PortChannel2 is up
  Hardware: Ethernet, address: c08c.6077.f1d1 (bia c08c.6077.f1d1)
  MTU 9000 bytes, BW 10000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA
  full-duplex, 10000 Mb/s
  Auto-Negotiation is turned on
    15996291 packets input, 2303652008 bytes
    958590 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    16099 packets output, 2360542 bytes
    0 underrun, 0 output errors, 0 collisions
    0 fifo, 0 carrier errors

VsbEthernet1/1 is up
  Hardware: Ethernet, address: 0002.3d74.d202 (bia 0002.3d74.d202)
  MTU 9000 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
    841737 packets input, 261020516 bytes
    0 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    5649028 packets output, 723915975 bytes
    0 underrun, 0 output errors, 0 collisions
    4 fifo, 0 carrier errors

VsbEthernet1/3 is up
  Hardware: Ethernet, address: 0002.3d74.d203 (bia 0002.3d74.d203)
  MTU 9000 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
    838705 packets input, 260539034 bytes
    0 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    5650692 packets output, 727944624 bytes
    0 underrun, 0 output errors, 0 collisions
    261 fifo, 0 carrier errors

```

**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.

# show network counters

To display the list of network counters, use the **show network counter** command.

## show network counter

**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
	5.2(1)SP1(7.1)	This command was introduced.

**Examples** This example shows how to display the network interface name:

```
switch# show network counters
```

```
-----
          Port           InOctets      InUcastPkts    InMcastPkts
-----
          Ethernet1      12138620790   61319787       173442
          Ethernet2      7522937938    38666311       206370
          Ethernet3      7832218009    38670779       206381
          Ethernet4      5825527684    43498917       101282
          Ethernet5              0              0              0
          Ethernet6      5825527684    43498917       101282
          VsbEthernet1/1      47970         1039           0
          VsbEthernet2/1      966798         9907           0
          VsbEthernet2/2      949211         9861           0
          VsbEthernet2/3          900           11            0
-----
          Port           OutOctets      OutUcastPkts    OutMcastPkts
-----
          Ethernet1      2009685197    1474325        173442
          Ethernet2      195086         1865           206370
          Ethernet3      150514         827            206381
          Ethernet4      150514         827            101282
          Ethernet5              0              0              0
          Ethernet6      150514         827            101282
          VsbEthernet1/1      285917126     3478128        0
          VsbEthernet2/1          540           7              0
          VsbEthernet2/2      6621327414    17361515       0
          VsbEthernet2/3      966348         9902           0
-----
```

## Related Commands

Command	Description
<b>show network</b>	Displays information about the network.
<b>show network summary</b>	Displays the summary of all the VSBs configured in the network.

## show network Interface <int\_name>

To display the network interface name, use the **show network interface <int\_name>** command.

**show network interface <int\_name>**

**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
	5.2(1)SP1(7.1)	This command was introduced.

**Examples** This example shows how to display the network interface name:

```
switch# show network interface Ethernet1
Ethernet1 is up
  Hardware: Ethernet, address: 68ef.bdf6.1932 (bia 68ef.bdf6.1932)
  MTU 9000 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
  20878682 packets input, 3626655159 bytes
  742882 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  804724 packets output, 199366520 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors
```

Related Commands	Command	Description
	<b>show network</b>	Displays information about the network.
	<b>show network summary</b>	Displays the summary of all the VSBs configured in the network.

# 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

**SupportedUserRoles** network-admin  
network-operator

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.
	5.2(1)SP1(7.1)	This command was updated.

**Examples** This example shows how to display the network summary for all the VSBs configured in your network:

```
switch# show network summary
```

```
Legends: P - Passthrough
```

```
-----
      Port      State      Uplink-Interface  Speed  RefCnt    MTU    Nat-Vlan
      Oper  Admin    Oper    Admin
-----
      Eth1      up        up
      Eth2      up        up
      Eth3      up        up
      Eth4      up        up
      Eth5      down     up
      Eth6      up        up
VsbEth1/1      up        up  Eth2    Eth2    1000    9000
VsbEth2/1      up        up  Eth1    Eth1    1000    9000
VsbEth2/2      up        up  Eth1    Eth1    1000    9000
VsbEth2/3      up        up  Eth1    Eth1    1000    9000
      contro10  up        up  Eth1    Eth1    1000    9000
      mgmt0     up        up  Eth1    Eth1    1000    9000
switch#
```

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>interface <i>name</i> mode passthrough</b>	Configures a VSB interface in passthrough mode

# show network cdp neighbors

To display the network cdp for the active or standby Cisco Nexus Cloud Services Platform, 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.
	5.2(1)SP1(7.1)	This command was updated.

**Examples** This example shows how to display uplink connectivity for Cisco Nexus Cloud Services Platform:

```
switch# show network 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 Interface	Hldtme	Capability	Platform	Port ID
sfish-cat3k-K5-stack2	Ethernet1	138	S I	cisco WS-C375	
GigabitEthernet2/0/27					
sfish-cat3k-K5-stack1	Ethernet2	80	S I	cisco WS-C375	
GigabitEthernet2/0/27					
sfish-cat3k-K5-stack1	Ethernet3	80	S I	cisco WS-C375	
GigabitEthernet2/0/26					
sfish-cat3k-K5-stack2	Ethernet4	138	S I	cisco WS-C375	
GigabitEthernet2/0/26					
sfish-cat3k-K5-stack2	Ethernet6	138	S I	cisco WS-C375	
GigabitEthernet2/0/25					

```
switch# ^C
```

Related Commands	Command	Description
	show cdp neighbors	Displays the configuration and capabilities of upstream devices.
	show network	Displays information about the network.
	show network cdp neighbors detail	Displays uplink connectivity for the active or standby Cisco Nexus Cloud Services Platform in detail.



# show network uplinks

To display uplink connectivity, use the **show network uplinks** command.

## show network uplinks

**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
	5.2(1)SP1(7.1)	This command was modified
	4.2(1)SP1(4)	This command was introduced.

**Examples** This example shows how to display uplink connectivity for Cisco Nexus Cloud Services Platform:

```
switch# show network uplinks
Ethernet1 is up
  Hardware: Ethernet, address: 68ef.bdf6.1d46 (bia 68ef.bdf6.1d46)
  MTU 9000 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
    61433728 packets input, 12158205983 bytes
    173769 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 21 fifo
    1474730 packets output, 2009784594 bytes
    0 underrun, 0 output errors, 0 collisions
    0 fifo, 0 carrier errors

Ethernet2 is up
  Hardware: Ethernet, address: 68ef.bdf6.1d47 (bia 68ef.bdf6.1d47)
  MTU 9000 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
    38749322 packets input, 7534956327 bytes
    206801 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    1869 packets output, 195534 bytes
```

```

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

```

Ethernet3 is up

```

Hardware: Ethernet, address: 0010.1857.5800 (bia 0010.1857.5800)
MTU 9000 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
  38749269 packets input, 7844543273 bytes
  206806 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  829 packets output, 150878 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

```

Ethernet4 is up

```

Hardware: Ethernet, address: 0010.1857.5802 (bia 0010.1857.5802)
MTU 9000 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
  43587903 packets input, 5837193453 bytes
  101455 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  829 packets output, 150878 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

```

Ethernet5 is down (not connected)

```

Hardware: Ethernet, address: 0010.1857.5804 (bia 0010.1857.5804)
MTU 9000 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
  0 packets output, 0 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

```

Ethernet6 is up

```

Hardware: Ethernet, address: 0010.1857.5806 (bia 0010.1857.5806)
MTU 9000 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
  43587905 packets input, 5837193653 bytes
  101455 multicast frames, 0 compressed
  0 input errors, 0 frame, 0 overrun, 0 fifo
  829 packets output, 150878 bytes
  0 underrun, 0 output errors, 0 collisions
  0 fifo, 0 carrier errors

```

Related Commands	Command	Description
	<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 Cloud Services Platform in detail.

■ `show network virtual-service-blade name<vsb_name>`

## show network virtual-service-blade name<vsb\_name>

To display the VSB name, use the `show network virtual-service-blade name<vsm_name>` command.

**show network virtual-service-blade name**

**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
	5.2(1)SP1(7.1)	This command was modified
	4.2(1)SP1(4)	This command was introduced.

**Examples** This example shows how to display VSB name for Cisco Nexus Cloud Service Platform:

```
switch# show network virtual-service-blade name<vsb_name>
VsbEthernet1/1 is up
  Hardware: Ethernet, address: 0002.3d74.d202 (bia 0002.3d74.d202)
  MTU 9000 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
    843479 packets input, 261566688 bytes
    0 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    5660620 packets output, 725439006 bytes
    0 underrun, 0 output errors, 0 collisions
    4 fifo, 0 carrier errors

VsbEthernet1/3 is up
  Hardware: Ethernet, address: 0002.3d74.d203 (bia 0002.3d74.d203)
  MTU 9000 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
    840447 packets input, 261085206 bytes
    0 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    5662284 packets output, 729467655 bytes
```

```

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

```

```

VsbEthernet1/4 is up
  Hardware: Ethernet, address: 0002.3d74.d204 (bia 0002.3d74.d204)
  MTU 9000 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
    847108 packets input, 262090078 bytes
    0 multicast frames, 0 compressed
    0 input errors, 0 frame, 0 overrun, 0 fifo
    5658107 packets output, 724822886 bytes
    0 underrun, 0 output errors, 0 collisions
    263 fifo, 0 carrier errors

```

**Related Commands**

Command	Description
<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 Cloud Services Platform in detail.

# show network port-channel database

To display database information, use the **show network port-channel database** command.

**show network port-channel database** [*channel-number* | **ethernet** | **up**]

Syntax Description	
<i>channel-number</i>	(Optional) Number that identifies the port channel.
<b>ethernet</b>	Specifies the port number for the port channel database to display
<b>up</b>	(Optional) Specifies that the port channels are in up state.

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

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

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

Command History	Release	Modification
	5.2(1)SP1(7.1)	This command was introduced.

Examples	This example shows how to display the database information:
----------	-------------------------------------------------------------

```
switch# show network port-channel database
PortChannel1
  Last membership update is successful
  2 ports in total, 2 ports up
  First operational port is Ethernet1
  Ports:   Ethernet1           [up]
          Ethernet2           [up]

PortChannel2
  Last membership update is successful
  2 ports in total, 2 ports up
  First operational port is Ethernet7
  Ports:   Ethernet7           [up]
          Ethernet8           [up]
```

Related Commands	Command	Description
	<b>show network port channel summary</b>	Displays the summary information of all the VSBs that are configured in the network
	<b>show network port channel capacity</b>	Displays the module capacity.

# show network port-channel capacity

To display the module capacity, use the **show network port-channel capacity** command.

**show network port-channel capacity**

<b>Syntax Description</b>	This command has no arguments or keywords.	
<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>
	5.2(1)SP1(7.1)	This command was introduced.
<b>Examples</b>	<p>This example shows how to display the port-channel capacity information:</p> <pre>switch# show network port channel capacity 8 total 2 used 6 free 25% used</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show network port-channel database</b>	Displays database information for the module
	<b>show network port-channel summary</b>	Displays the summary information about the port channels in the network.

# show network port-channel summary

To display summary details of the port channels in the network for the Cisco Nexus Cloud Services Platform 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.
5.2(1)SP1(7.1)	This command was introduced

## Examples

This example shows how to display summary information about the port channels for Cisco Nexus Cloud Services Platform:

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

```
-----
Group      Port-Channel  Type  Protocol  Member-Ports
-----
1  PortChannel1 (U)  eth   LACP      Eth1 (P) Eth2 (P)
2  PortChannel2 (U)  eth   LACP      Eth7 (P) Eth8 (P)
-----
```

## Related Commands

Command	Description
<b>show network</b>	Displays information about the network.
<b>show network summary</b>	Displays summary information of all the VSBs configured in your network.



# show network port-channel usage

To display the usage statistics of the port channels in the network, use the **show network port-channel usage** command.

**show network port-channel usage**

**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
	5.2(1)SP1(7.1)	This command was introduced.

**Examples** This example shows how to display the usage information of the port channels for Cisco Nexus Cloud Services Platform:

```
switch(config)# show network port-channel usage
Used :    1 , 2
Unused:    3 , 4 , 5 , 6 , 7 , 8
```

Related Commands	Command	Description
	<b>show network port-channel summary</b>	Displays the summary of information of the port-channels in the network
	<b>show network port-channel database</b>	Displays summary information about all VSBs configured in your network.

# show network cdp neighbors detail

To display uplink connectivity for the active or standby Cisco Nexus Cloud Services Platform 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 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 Cloud Services Platform.

# 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

**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:

```
switch# 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
switch#
```

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.

# 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:

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

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.

# 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		
<b>io</b>		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:

```
switch# 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
switch#
```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>ntp peer</b>	Forms an association with a peer.
<b>ntp server</b>	Forms an association with a server.

# show nexus1010-mgr internal resource information

To display the system resource information such as operational system resources, primary RAM and secondary RAM details.

## show nexus1010-mgr internal resource information

**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
	5.2(1)SP1(7.1)	This command was introduced.

**Examples** This example shows how to display the network interface name:

```
switch# show nexus1010-mgr internal resource information
===== Operational System Resources =====
Operational RAM: 60416 MB
Operational HDD: 1391 GB
Operational CPU Cores: 14

===== RESOURCE INFORMATION ON PRIMARY =====
Primary RAM: 60416 MB
Primary RAM Allocated: 12288 MB
Primary HDD: 1391 GB
Primary HDD Allocated: 120 GB
Primary CPU Cores: 14
Primary CPU Cores Allocated: 12
Primary Cavium: Total BW 20000, Total VFs 8
Primary Cavium: Remaining BW 20000, remaining VFs 8

===== RESOURCE INFORMATION ON SECONDARY =====
Secondary RAM: 60416 MB
Secondary RAM Allocated: 12288 MB
Secondary HDD: 1391 GB
Secondary HDD Allocated: 120 GB
Secondary CPU Cores: 14
Secondary CPU Cores Allocated: 12
Secondary Cavium: Total BW 20000, Total VFs 8
Secondary Cavium: Remaining BW 20000, remaining VFs 8
```

## ■ show nexus1010-mgr internal resource information

Related Commands	Command	Description
	show hardware	Displays the hardware details of the platform.
	show system resources	Display system-related CPU and memory statistics



# 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:

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

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.

# 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	cpu	(Optional) Specifies processes related to the CPU.
	log	(Optional) Specifies information regarding process logs.
	memory	(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:

```
switch# 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_eh_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

```

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	77d9ebe4	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	77ebe468	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	77cce468	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	77cebbe4	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

## show processes

```

2978      S 77a6bf43          1    -    VL  l3vm
2978      S 77a6bf43          1    -    VL  l3vm
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 77dc468           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  ipgosmgr
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

```

```

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

```

## ■ show processes

```

-   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)

switch#

---

**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.

---

# 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:

```
switch# 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$aguYqHl0dPttBJAhEPwsy1 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.

# 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.
5.2(1)SP1(7.1)	This command was updated

### 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: Fri May 16 12:47:01 2014

version 5.2(1)SP1(7.1)
hostname switch

feature telnet
no feature http-server
feature scp-server

username admin password 5 $1$mu2Pt0OP$QngQ1hDbUG1x7Gaz/RIZs1 role network-admin
username admin role network-operator
username admin keypair rsa

banner motd #Cisco VSA
#

ip domain-lookup
ip host switch 172.23.180.184
errdisable recovery cause failed-port-state
snmp-server user admin network-operator auth md5 0xd8660132bb3eb73764f409f7d64ebb19
localizedkey
rmon event 1 log trap public description FATAL(1) owner PMON@FATAL
rmon event 2 log trap public description CRITICAL(2) owner PMON@CRITICAL
rmon event 3 log trap public description ERROR(3) owner PMON@ERROR
rmon event 4 log trap public description WARNING(4) owner PMON@WARNING
rmon event 5 log trap public description INFORMATION(5) owner PMON@INFO
```



```
vrf context management
  ip route 0.0.0.0/0 172.23.180.1
vlan 1,180,267

port-channel load-balance ethernet source-mac
port-profile default max-ports 32
port-profile default port-binding static
port-profile type vethernet N1K_Cloud_Default_Trunk
  switchport mode trunk
  no shutdown
  guid 65e71825-95da-4572-8019-97399f2c777f
  max-ports 64
  description Port Profile created for Nexus 1000V internal usage. Do not use.
  state enabled

system storage-loss log time 30
system inter-sup-heartbeat time 15
system trace 0xFFFFFFFF
logging level sysmgr 10
interface Ethernet1
interface Ethernet2
interface Ethernet3
interface Ethernet4
interface Ethernet5
interface Ethernet6
svs-domain
  control uplink Ethernet1
  management uplink Ethernet1
virtual-service-blade dcnm
  virtual-service-blade-type name DCNM-VSB-6.3
  interface eth0 vlan 180
  interface eth0 uplink Ethernet2
  interface eth1 vlan 0
  interface eth1 uplink
  ramsize 8192
  disksize 80
  numcpu 2
  cookie 2120424824
  no shutdown primary
interface VsbEthernet1/1
virtual-service-blade vsm
  virtual-service-blade-type name VSM_SV3-1.1
  interface control vlan 321
  interface control uplink Ethernet1
  interface management vlan 232
  interface management uplink Ethernet1
  interface packet vlan 321
  interface packet uplink Ethernet1
  ramsize 4096
  disksize 3
  numcpu 2
  cookie 514197755
  no shutdown primary
  no shutdown secondary
interface VsbEthernet2/1
interface VsbEthernet2/2
interface VsbEthernet2/3

interface mgmt0
  ip address 172.23.180.184/24

interface control0
  line console
```

## ■ show running-config

```

line vty
boot kickstart bootflash:/nexus-1010-kickstart.5.2.1.SP1.7.1.bin
boot system bootflash:/nexus-1010.5.2.1.SP1.7.1.bin
boot kickstart bootflash:/nexus-1010-kickstart.5.2.1.SP1.7.1.bin
boot system bootflash:/nexus-1010.5.2.1.SP1.7.1.bin
svs-domain
  domain id 267
  control vlan 267
  management vlan 180
  svcs mode L2
  switch-guid c0a0c224-f8bc-494a-8585-77fe848e85e4

```

## Related Commands

Command	Description
<b>show running config dif</b>	Verifies the difference between the running and startup configuration.
<b>show startup config</b>	Displays the start up configuration for a specific port channel

# 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>Supported User Roles</b>	network-admin				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>4.0(4)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 the running configuration for port channel 10:</p> <pre>switch(config)# <b>show running-config interface port-channel 10</b> version 4.0(4)SP1(1)  interface port-channel10   switchport   switchport mode trunk</pre>				
<b>Related Commands</b>	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><b>show running-config interface diff</b></td> <td>Verifies the difference between the running and startup configuration.</td> </tr> </tbody> </table>	Command	Description	<b>show running-config interface diff</b>	Verifies the difference between the running and startup configuration.
Command	Description				
<b>show running-config interface diff</b>	Verifies the difference between the running and startup configuration.				

# show startup config

To display the start up configuration for a specific port channel, use the **show startup config** command.

## show startup config

<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>
	5.2(1)SP1(7.1)	This command was introduced.

### Examples

This example shows how to display the running configuration for port channel 10:

```
switch# show startup-config

!Command: show startup-config
!Time: Fri May 16 15:55:24 2014
!Startup config saved at: Thu May 15 22:51:49 2014

version 5.2(1)SP1(7.1)
hostname switch

feature telnet
no feature http-server
feature scp-server

username admin password 5 $1$mu2Pt0OP$QngQ1hDbUG1x7Gaz/RIzS1 role network-admin
username admin role network-operator
username admin keypair rsa

banner motd #Cisco VSA
#

ip domain-lookup
ip host switch 172.23.180.184
errdisable recovery cause failed-port-state
snmp-server user admin network-operator auth md5 0xd8660132bb3eb73764f409f7d64eb
b19 localizedkey
rmon event 1 log trap public description FATAL(1) owner PMON@FATAL
rmon event 2 log trap public description CRITICAL(2) owner PMON@CRITICAL
rmon event 3 log trap public description ERROR(3) owner PMON@ERROR
rmon event 4 log trap public description WARNING(4) owner PMON@WARNING
```

```
rmon event 5 log trap public description INFORMATION(5) owner PMON@INFO

vrf context management
  ip route 0.0.0.0/0 172.23.180.1
vlan 1,180,267

port-channel load-balance ethernet source-mac
port-profile default max-ports 32
port-profile default port-binding static
port-profile type vethernet N1K_Cloud_Default_Trunk
  switchport mode trunk
  no shutdown
  guid 65e71825-95da-4572-8019-97399f2c777f
  max-ports 64
  description Port Profile created for Nexus 1000V internal usage. Do not use.
  state enabled

system storage-loss log time 30
system inter-sup-heartbeat time 15
system trace 0xFFFFFFFF
logging level sysmgr 10
interface Ethernet1
interface Ethernet2
interface Ethernet3
interface Ethernet4
interface Ethernet5
interface Ethernet6
svs-domain
  control uplink Ethernet1
  management uplink Ethernet1
virtual-service-blade dcnm
  virtual-service-blade-type name DCNM-VSB-6.3
  interface eth0 vlan 180
  interface eth0 uplink Ethernet2
  interface eth1 vlan 0
  interface eth1 uplink
  ramsize 8192
  disksize 80
  numcpu 2
  cookie 2120424824
  no shutdown primary
interface VsbEthernet1/1
virtual-service-blade vsm
  virtual-service-blade-type name VSM_SV3-1.1
  interface control vlan 321
  interface control uplink Ethernet1
  interface management vlan 232
  interface management uplink Ethernet1
  interface packet vlan 321
  interface packet uplink Ethernet1
  ramsize 4096
  disksize 3
  numcpu 2
  cookie 514197755
  no shutdown primary
  no shutdown secondary
interface VsbEthernet2/1
interface VsbEthernet2/2
interface VsbEthernet2/3

interface mgmt0
  ip address 172.23.180.184/24
line console
```

## ■ show startup config

```

line vty
boot kickstart bootflash:/nexus-1010-kickstart.5.2.1.SP1.7.1.bin
boot system bootflash:/nexus-1010.5.2.1.SP1.7.1.bin
boot kickstart bootflash:/nexus-1010-kickstart.5.2.1.SP1.7.1.bin
boot system bootflash:/nexus-1010.5.2.1.SP1.7.1.bin
svs-domain
  domain id 267
  control vlan 267
  management vlan 180
  svcs mode L2
  switch-guid c0a0c224-f8bc-494a-8585-77fe848e85e4

```

---

**Related Commands**

Command	Description
<b>show running-config</b>	Verifies the difference between the running and startup configuration.
<b>interface diff</b>	

---

# 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	
<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:

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

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.

# show ssh key

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

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

Syntax Description	dsa	(Optional) Specifies the display of DSA SSH keys.
	rsa	(Optional) Specifies the display of RSA SSH keys.

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 SSH server keys:
----------	----------------------------------------------------

```
switch# show ssh key
switch#
```

Related Commands	Command	Description
	show ssh server	Displays whether the SSH server is enabled.
	ssh key	Generates the SSH server key.



# 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:

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

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.

# show startup-config

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

**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
	5.2(1)SP1(7.1)	This command was introduced

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

```
switch#
!Command:
!Time: Fri Feb 28 12:01:57 2014
!Startup config saved at: Thu Feb 27 11:03:17 2014

version 5.2(1)SP1(7.1)
hostname N1010-CSP

no feature telnet
no feature http-server

username admin password 5 $1$/Gc0oer.$U1JCwGiRlp6ivB7VBrjvL/ role network-admin
username admin keypair rsa

banner motd #Cisco VSA
#

ip domain-lookup
ip host switch-CSP 172.23.180.176
errdisable recovery cause failed-port-state
snmp-server user admin network-admin auth md5 0xb64ad6879970f0e57600c443287a79f0 priv
0xb64ad6879970f0e57600c443287a79f0 localizedkey
rmon event 1 log trap public description FATAL(1) owner PMON@FATAL
rmon event 2 log trap public description CRITICAL(2) owner PMON@CRITICAL
rmon event 3 log trap public description ERROR(3) owner PMON@ERROR
rmon event 4 log trap public description WARNING(4) owner PMON@WARNING
rmon event 5 log trap public description INFORMATION(5) owner PMON@INFO
```

```

vrf context management
  ip route 0.0.0.0/0 172.23.180.1
vlan 1,100,180

port-channel load-balance ethernet source-mac
port-profile default max-ports 32
port-profile default port-binding static
port-profile type vethernet N1K_Cloud_Default_Trunk
  switchport mode trunk
  no shutdown
  guid 9ce566fd-4429-4f58-96a4-d17e3363977b
  max-ports 64
  description Port Profile created for Nexus 1000V internal usage. Do not use.
  state enabled

system storage-loss log time 30
system inter-sup-heartbeat time 15
interface Ethernet1
  channel-group 1 mode active
interface Ethernet2
  channel-group 1 mode active
interface Ethernet7
  channel-group 2 mode active
interface Ethernet8
  channel-group 2 mode active
interface PortChannel1
interface PortChannel2
svs-domain
  control uplink PortChannel1
  management uplink PortChannel1
virtual-service-blade vpx1
  virtual-service-blade-type name NetScaler1000V
  interface ns_intf_0 vlan 180
  interface ns_intf_0 uplink PortChannel1
  interface ns_intf_1 vlan 180
  interface ns_intf_1 uplink PortChannel1
  interface ns_intf_2 vlan 180
  interface ns_intf_2 uplink PortChannel1
  interface ns_intf_3 vlan 180
  interface ns_intf_3 uplink PortChannel1
  interface ns_intf_4 vlan 180
  interface ns_intf_4 uplink PortChannel1
  interface ns_intf_5 vlan 180
  interface ns_intf_5 uplink PortChannel1
  ramsize 2048
  disksize 20
  numcpu 2
  cookie 768724753
  no shutdown primary
  no shutdown secondary
interface VsbEthernet1/1
interface VsbEthernet1/3
interface VsbEthernet1/4
interface VsbEthernet1/5
interface VsbEthernet1/6
interface VsbEthernet1/7

interface mgmt0
  ip address 172.23.180.176/24
line console
line vty
boot kickstart bootflash:/nexus-1010-kickstart.5.2.1.SP1.7.0.29.bin
boot system bootflash:/nexus-1010.5.2.1.SP1.7.0.29.bin
boot kickstart bootflash:/nexus-1010-kickstart.5.2.1.SP1.7.0.29.bin

```

## ■ show startup-config

```

boot system bootflash:/nexus-1010.5.2.1.SP1.7.0.29.bin
svs-domain
  domain id 1234
  control vlan 100
  management vlan 180
  svs mode L2
  switch-guid 68dd6632-af88-4b60-abb0-44450c3741f5

5. show nexus1010-mgr internal resource information
Added in Freewinds.1
N1010-CSP# show nexus1010-mgr internal resource information
System Resources information

===== Operational System Resources =====
Operational RAM: 60416 MB
Operational HDD: 1391 GB
Operational CPU Cores: 14

===== RESOURCE INFORMATION ON PRIMARY =====
Primary RAM: 60416 MB
Primary RAM Allocated: 12288 MB
Primary HDD: 1391 GB
Primary HDD Allocated: 120 GB
Primary CPU Cores: 14
Primary CPU Cores Allocated: 12
Primary Cavium: Total BW 20000, Total VFs 8
Primary Cavium: Remaining BW 20000, remaining VFs 8
===== RESOURCE INFORMATION ON SECONDARY =====
Secondary RAM: 60416 MB
Secondary RAM Allocated: 12288 MB
Secondary HDD: 1391 GB
Secondary HDD Allocated: 120 GB
Secondary CPU Cores: 14
Secondary CPU Cores Allocated: 12
Secondary Cavium: Total BW 20000, Total VFs 8
Secondary Cavium: Remaining BW 20000, remaining VFs 8
N1010-CSP#

```

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>copy running-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.

# show startup-config aaa

To display the Authentication, Authorization and Accounting protocol (AAA) configuration in the startup configuration, use the **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:

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

switch#
```

Related Commands	Command	Description
	<b>aaa authentication</b>	Configures the default AAA authentication methods.
	<b>login default</b>	

# show svcs domain

To display the following domain information for the Cisco Nexus Cloud Services Platform, 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:

```
switch# 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.
switch#
```

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.

# 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:

```
switch# 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

switch#
```

Related Commands	Command	Description
	<b>show nexus1010-mgr internal resource information</b>	Displays the system resource information such as operational system resources, primary RAM and secondary RAM details.
	<b>show processes</b>	Displays the state and the start count of all processes

# 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:

```
switch# 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.



# 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.
	<i>pid</i>	ID for the specified client process.
	<b>detail</b>	(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:

```
switch# 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
	<b>show tcp connection</b>	Displays information about the TCP connection.
	<b>show tcp statistics</b>	Displays TCP protocol statistics.

# 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		
<b>pid</b>	(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:

```
switch# 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:
```

```

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

```

```

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

```

```
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

```
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.

# 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:

```
switch# 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 unsent data
  252581 ack packets (103465405 bytes)
```

## ■ show tcp statistics

```

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.



# 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 Cloud Services Platform.	
<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

**Supported User Roles** 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:

```
switch# 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]

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
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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

```

```
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
```

```

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

```

```
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
```

```

`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

```

```

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
switch#

```

**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.

# 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:

```
switch# show telnet server
telnet service enabled
switch#
```

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



# 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:

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

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</b> <b>terminal-type</b>	Sets the terminal type.
	<b>terminal width</b>	Sets the width of the display terminal.

# 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.

**Examples** This example shows how to display user account configuration for the user named NewUser:

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

# 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:

```
switch# 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) *
switch#
```

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.

# 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>Supported User Roles</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> <tr> <td>5.2(1)SP1(7.1)</td> <td>This command was updated.</td> </tr> </tbody> </table>	Release	Modification	4.0(4)SP1(1)	This command was introduced.	5.2(1)SP1(7.1)	This command was updated.
Release	Modification						
4.0(4)SP1(1)	This command was introduced.						
5.2(1)SP1(7.1)	This command was updated.						

## Examples

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

```
switch# show version
Cisco Nexus Operating System (NX-OS) Software
TAC support: http://www.cisco.com/tac
Documents:
http://www.cisco.com/en/US/products/ps9372/tsd_products_support_series_home.html
Copyright (c) 2002-2014, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained herein are owned by
other third parties and are used and distributed under license.
Some parts of this software are covered under the GNU Public
License. A copy of the license is available at
http://www.gnu.org/licenses/gpl.html.

Software
kickstart: version 5.2(1)SP1(7.1) [build 5.2(1)SP1(7.0.29)]
system:      version 5.2(1)SP1(7.1) [build 5.2(1)SP1(7.0.29)]
kickstart image file is: bootflash:///nexus-1010-kickstart.5.2.1.SP1.7.0.29.bin
kickstart compile time: 2/20/2014 0:00:00 [02/20/2014 09:57:31]
system image file is:   bootflash:///nexus-1010.5.2.1.SP1.7.0.29.bin
system compile time:   2/20/2014 0:00:00 [02/21/2014 20:03:56]

Hardware
cisco Nexus 1110-X (Virtual Services Appliance) 2 slot Chassis ("Cisco Virtual Services
Appliance")
with 61865984 kB of memory.
```

```

Processor Board ID T023D74D201

Device name: N1010-CSP
bootflash:      3897832 kB
Disk Storage capacity for VM virtual disks: 1424787 MB
Number of physical 1Gbps ethernet ports: 2
Number of physical 10Gbps ethernet ports: 2
Number of SSL accelerator card: 1
Number of CPU Cores: 16
CPU Cores details:
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
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model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
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model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz
model name      : Intel(R) Xeon(R) CPU E5-2650 0 @ 2.00GHz

System uptime is 1 days, 21 hours, 35 minutes, 15 seconds

Kernel uptime is 1 day(s), 21 hour(s), 34 minute(s), 54 second(s)

plugin
  Core Plugin, Ethernet Plugin, Virtualization Plugin

```

---

**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.

---

# 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:

```
switch# 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]
switch#
```

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.

# show virtual-service-blade name vpx1

To verify if the VSM create, use the **virtual-service-blade name vpx1** command.

**show virtual-service-blade vpx1 name**

**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
	5.2(1)SP1(7.1)	This command was introduced.

**Examples** This example shows how to verify if the VSM is created:

```
switch# show virtual-service-blade name vpx1
```

```
-----
Interface          Type          MAC           VLAN   State  Uplink-Int
                   Pri  Sec Oper  Adm
-----
VsbEthernet1/1    ns_intf_0    0002.3d74.d202  180   up    up Po1   Po1
  internal         NA           NA             NA    up    up
VsbEthernet1/3    ns_intf_1    0002.3d74.d203  180   up    up Po1   Po1
VsbEthernet1/4    ns_intf_2    0002.3d74.d204  180   up    up Po1   Po1
VsbEthernet1/5    ns_intf_3    0002.3d74.d205  180   up    up Po1   Po1
VsbEthernet1/6    ns_intf_4    0002.3d74.d206  180   up    up Po1   Po1
VsbEthernet1/7    ns_intf_5    0002.3d74.d207  180   up    up Po1   Po1
-----
```

Related Commands	Command	Description
	<b>show virtual-service-blade statistics</b>	Displays the VSM statistics
	<b>show virtual-service-blade summary</b>	Displays the VSB summary

# show virtual-service-blade summary

To display the VSB status, use the **virtual-service-blade summary** command.

**show virtual-service-blade 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
	5.2(1)SP1(7.1)	This command was introduced.

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

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

```
-----
Name           HA-Role   HA-Status  Status           Location
-----
dcnm           PRIMARY   ACTIVE     VSB POWERED ON  PRIMARY
dcnm           SECONDARY NONE        VSB NOT PRESENT SECONDARY
vsm            PRIMARY   ACTIVE     VSB POWERED ON  PRIMARY
```

Related Commands	Command	Description
	<b>show virtual-service-blade name &lt;vsb_name&gt;</b>	To verify if the VSM is created
	<b>show virtual-service-blade statistics</b>	Displays the VSB statistics



# 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.
	5.2(1)SP1(7.1)	This command was updated.

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

```
switch# show virtual-service-blade-type summary
Virtual-Service-Blade-Type   Virtual-Service-Blade
-----
NetScaler1000V              vpx1
```



**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. Cisco Nexus Cloud Services Platform 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.

# 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.
	5.2(1)SP1(7.1)	This command was updated.

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

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

virtual-service-blade: vpx1
  Virtual Memory: 2371m
  Physical Memory: 2.0g
  CPU Usage Percentage: 52.90
  Up Since: Wed Feb 26 14:24:20 2014
  Number of Restarts: 1
  Last heartbeat received at: Fri Feb 28 12:04:59 2014
```

# 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

**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 a list of the VSDs currently configured in a VSM:

```
switch# 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
```

### show virtual-service-domain brief

```

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

```
switch#
```

### Related Commands

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

# 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:

```
switch# 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.

# 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:
-----------------	-----------------------------------------------------------------

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

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

```
switch#
```

<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.

# 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:

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

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.

■ show xml server status