



## Show Commands

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This chapter describes the system management **show** commands.

# show diagnostic bootup level

To display the current bootup diagnostic level on the switch, use the **show diagnostic bootup level** command.

**show diagnostic bootup level**

<b>Syntax Description</b>	This command has no arguments or keywords.
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<b>Command Default</b>	None
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<b>Command Modes</b>	EXEC mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display the current bootup diagnostic level:
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```
switch# show diagnostic bootup level

      Current bootup diagnostic level: complete

switch#
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>diagnostic bootup level</b>	Configures the bootup diagnostic level for a faster module bootup time.
	<b>show diagnostic result</b>	Displays the results of the diagnostics tests.

# show diagnostic result

To display the results of the diagnostic tests, use the **show diagnostic result** command.

**show diagnostic result module** {*module-no* | **all**}

Syntax Description	module	Specifies the module for which diagnostic results are displayed.
	<i>module-no</i>	Module number. Valid values are 1 to 3.
	<b>all</b>	Displays the diagnostic results for all modules.

Command Default	None
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Command Modes	EXEC mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display the diagnostic results for a specific module:

```
switch# show diagnostic result module 1
```

```
Current bootup diagnostic level: complete
```

```
Module 1: 48X10GE/Supervisor SerialNo : JAF1339ANGH
```

```
Overall Diagnostic Result for Module 1 : PASS
```

```
Diagnostic level at card bootup: complete
```

```
Test results: (. = Pass, F = Fail, I = Incomplete,
               U = Untested, A = Abort)
```

```

1) TestUSBFlash -----> .
2) TestSPROM -----> .
3) TestPCIE -----> .
4) TestLED -----> .
5) TestOBFL -----> .
6) TestNVRAM -----> .
7) TestPowerSupply -----> F
8) TestTemperatureSensor -----> .
9) TestFan -----> .
10) TestVoltage -----> .
11) TestGPIO -----> .
12) TestInbandPort -----> .
13) TestManagementPort -----> .
14) TestMemory -----> .
15) TestFabricEngine :
```

```

Eth      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
      .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
```

```

Eth   25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

16) TestFabricPort :

```

Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

```

Eth   25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

17) TestForwardingEngine :

```

Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

```

Eth   25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

18) TestForwardingEnginePort :

```

Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

```

Eth   25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

19) TestFrontPort :

```

Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

```

Eth   25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port  -----
      . . . . . . . . . . . . . . . . . . . . . . . . . . . .

```

switch#

## Related Commands

Command	Description
<b>diagnostic bootup level</b>	Configures the bootup diagnostic level for a faster module bootup time.
<b>show diagnostic bootup level</b>	Displays the bootup diagnostics level.

# show hosts

To display the Domain Name Server (DNS) name servers and domain names, use the **show hosts** command.

## show hosts

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the IP addresses of the DNS servers that are used to resolve host names:

```
switch# show hosts
DNS lookup enabled
Default domain for vrf:default is mysite.com
Name/address lookup uses domain service
Name servers are 255.255.255.255
```

Vrf	Use-vrf	Token	Config
default	management	domain	mysite.com
default	management	add. domain(s)	mysite2.com

```
Host
switch#
```

Related Commands	Command	Description
	ip domain-list	Defines a list of domains.
	ip domain lookup	Enables DNS-based host name-to-address translation.
	ip domain-name	Configures a name server.

# show ip dns source-interface

To display the source interfaces configured for Domain Name Server (DNS) domain lookup, use the **show ip dns source-interface** command.

**show ip dns source-interface** [**vrf** {*vrf-name* | **all** | **default** | **management**}]

## Syntax Description

<b>vrf</b>	(Optional) Displays information about the virtual routing and forwarding (VRF) instance.
<i>vrf-name</i>	(Optional) VRF name. The name is case sensitive and can be a maximum of 32 characters.
<b>all</b>	(Optional) Displays all VRF instances.
<b>default</b>	(Optional) Displays the default VRF information.
<b>management</b>	(Optional) Displays the management VRF information.

## Command Default

None

## Command Modes

EXEC mode

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to display the source interfaces configured for DNS domain lookup:

```
switch# show ip dns source-interface
VRF Name      Interface
default       Ethernet1/5
switch#
```

## Related Commands

Command	Description
<b>ip domain-lookup</b>	Enables the DNS lookup feature.
<b>ip dns source-interface</b>	Configures interfaces for DNS domain lookup.

# show logging console

To display the console logging configuration, use the **show logging console** command.

**show logging console**

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the console logging configuration:

```
switch# show logging console
```

Related Commands	Command	Description
	logging console	Configures logging to the console.

# show logging info

To display the logging configuration, use the **show logging info** command.

## **show logging info**

---

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

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

<b>Command Modes</b>	EXEC mode
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

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<b>Examples</b>	This example shows how to display the logging configuration:  switch# <b>show logging info</b>
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---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>logging level</b>	Enables logging messages from a defined facility.

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# show logging last

To display the last number of lines of the logfile, use the **show logging last** command.

**show logging last** *number*

<b>Syntax Description</b>	<i>number</i>	Enters the number of lines to display from 1 to 9999.
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC mode	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.
<b>Examples</b>	<p>This example shows how to display the last 42 lines of the log file:</p> <pre>switch# show logging last 42</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	logging level	Enables logging messages from a defined facility.

# show logging level

To display the facility logging severity level configuration, use the **show logging level** command.

**show logging level** [*facility*]

<b>Syntax Description</b>	<i>facility</i>	(Optional) Logging facility. The facilities are listed in <a href="#">Table 1-1</a> of <a href="#">Appendix 1, “System Message Logging Facilities.”</a>
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC mode	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display the EtherChannel logging severity level configuration:

```
switch# show logging level port-channel
```

This example shows how to display the Flex Links logging severity level configuration:

```
switch# show logging level flexlink
Facility           Default Severity   Current Session Severity
-----
Flexlink           2                  5

0 (emergencies)    1 (alerts)         2 (critical)
3 (errors)         4 (warnings)       5 (notifications)
6 (information)    7 (debugging)
```

switch#

This example shows how to display the FCoE NPV logging severity level configuration:

```
switch# show logging level fcoe_mgr
Facility           Default Severity   Current Session Severity
-----
fcoe_mgr           2                  3

0 (emergencies)    1 (alerts)         2 (critical)
3 (errors)         4 (warnings)       5 (notifications)
6 (information)    7 (debugging)
```

switch#

# Related Commands

Command	Description
logging level	Configures the facility logging level.

# show logging logfile

To display the messages in the log file that were timestamped within the span entered, use the **show logging logfile** command.

**show logging logfile** [**start-time** yyyy mmm dd hh:mm:ss] [**end-time** yyyy mmm dd hh:mm:ss]

## Syntax Description

<b>start-time</b> yyyy mmm dd hh:mm:ss	(Optional) Specifies a start time in the format yyyy mmm dd hh:mm:ss. Use three characters for the month ( <i>mmm</i> ) field, digits for the year (yyyy) and day ( <i>dd</i> ) fields, and digits separated by colons for the time ( <i>hh:mm:ss</i> ) field.
<b>end-time</b> yyyy mmm dd hh:mm:ss	(Optional) Specifies an end time in the format yyyy mmm dd hh:mm:ss. Use three characters for the month ( <i>mmm</i> ) field, digits for the year (yyyy) and day ( <i>dd</i> ) fields, and digits separated by colons for the time ( <i>hh:mm:ss</i> ) field.

## Command Default

None

## Command Modes

EXEC mode

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Usage Guidelines

If you do not enter an end time, the current time is used.

## Examples

This example shows how to display the messages in the log file that were timestamped within the span shown:

```
switch# show logging logfile start-time 2008 mar 11 12:10:00
```

## Related Commands

Command	Description
logging logfile	Configures logging to a log file.

# show logging module

To display the module logging configuration, use the **show logging module** command.

**show logging module**

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the module logging configuration:

```
switch# show logging module
```

Related Commands	Command	Description
	logging module	Configures module logging.

# show logging monitor

To display the monitor logging configuration, use the **show logging monitor** command.

## show logging monitor

---

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

<b>Command Default</b>	None
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<b>Command Modes</b>	EXEC mode
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---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

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<b>Examples</b>	This example shows how to display the monitor logging configuration:  switch# <b>show logging monitor</b>
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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>logging monitor</b>	Configures logging on the monitor.

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# show logging nvram

To display the messages in the nonvolatile random access memory (NVRAM) log, use the **show logging nvram** command.

**show logging nvram** [**last** *number-lines*]

<b>Syntax Description</b>	<b>last</b> <i>number-lines</i> (Optional) Specifies the number of lines to display. The number of lines is from 1 to 100.
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<b>Command Default</b>	None
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<b>Command Modes</b>	EXEC mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display the last 20 messages in the NVRAM log:  switch# <b>show logging nvram last 20</b>
-----------------	---

Related Commands	Command	Description
	<b>logging level</b>	Enables logging messages from a defined facility.

# show logging onboard

To display the onboard logging information based on the error type, use the **show logging onboard** command.

```
show logging onboard { boot-uptime | device-version | endtime | environmental-history |
exception-log | kernel-trace | obfl-history | obfl-logs | stack-trace | starttime | status } [> file
| | type]
```

Syntax Description	
<b>boot-uptime</b>	Displays the onboard failure logging (OBFL) boot and uptime information.
<b>device-version</b>	Displays the OBFL device version information.
<b>endtime</b>	Displays the OBFL logs until the specified end time in the following format: <i>mm/dd/yy-HH:MM:SS</i>
<b>environmental-history</b>	Displays the OBFL environmental history.
<b>exception-log</b>	Displays the OBFL exception log.
<b>kernel-trace</b>	Displays the OBFL kernel trace information.
<b>obfl-history</b>	Displays the OBFL history information.
<b>obfl-logs</b>	Displays the OBFL technical support log information.
<b>stack-trace</b>	Displays the OBFL kernel stack trace information.
<b>starttime</b>	Displays the OBFL logs from the specified start time in the following format: <i>mm/dd/yy-HH:MM:SS</i>
<b>status</b>	Displays the OBFL status enable or disable.
<b>&gt; file</b>	(Optional) Redirects the output to a file. See the “Usage Guidelines” section for additional information.
<b>  type</b>	(Optional) Filters the output. See the “Usage Guidelines” section for additional information.

<b>Command Default</b>	None
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<b>Command Modes</b>	EXEC mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Usage Guidelines**

The date and time arguments for the **starttime** and **endtime** keywords are entered as the date month/day/year (*mm/dd/yy*), followed by a hyphen, and the time in 24-hour format in hours:minutes:seconds (*HH:MM:SS*). For example:

- **starttime** 01/30/13-15:01:57
- **endtime** 01/30/13-15:04:57

The valid values for *file* are as follows:



- **bootflash:**
- **ftp:**
- **scp:**
- **sftp:**
- **tftp:**
- **volatile:**

The valid values for *type* are as follows:

- **begin [-i] [-x] [word]**—Begin with the line that matches the text.
  - **-i**—Ignores the case difference when comparing the strings.
  - **-x**—Prints only the lines where the match is a whole line.
  - *word*—Specifies for the expression.
- **count [> file || type]**—Counts number of lines.
- **egrep | grep print-match**—Egrep or Grep. Egrep searches for lines of text that match more sophisticated regular expression syntax than grep. Grep searches for lines of text that match one or many regular expressions, and outputs only the matching lines.
  - **-A num**—Prints the specifies number of lines of context after every matching line. Range: 1 to 999.
  - **-B num**—Prints the specifies number of lines of context before every matching line. Range: 1 to 999.
  - **-c**—Prints a total count of matching lines only.
  - **-i**—Ignores the case difference when comparing the strings.
  - **-n**—Prints each match preceded by its line number.
  - **-v**—Prints only the lines that contain no matches for the *word* argument.
  - **-w**—Prints only lines where the match is a complete word.
  - **-x**—Prints only the lines where the match is a whole line.
  - *word*—Specifies for the expression.
- **exclude [-i] [-x] [word]**—Excludes the lines that match.
  - **-i**—Ignores the case difference when comparing the strings.
  - **-x**—Prints only the lines where the match is a whole line.
  - *word*—Specifies for the expression.
- **head [-n num]**—Stream Editor. The optional **-n num** keyword and argument allow you to specify the number of lines to print. Range: 0 to 2147483647.
- **include [-i] [-x] [word]**—Include the lines that match.
  - **-i**—Ignores the case difference when comparing the strings.
  - **-x**—Prints only the lines where the match is a whole line.
  - *word*—Specifies for the expression.
- **last [num]**—Displays the last lines to print. The optional *num* specifies the number of lines to print. Range: 0 to 9999.
- **less [-E | -d]**—Quits at the end of the file.

- **-E**—(Optional) Quits at the end of the file.
- **-d**—(Optional) Specifies a dumb terminal.
- **no-more**—Turns-off pagination for command output.
- **sed command**—Stream Editor
- **wc**—Counts words, lines, and characters.
  - **-c**—(Optional) Specifies the output character count.
  - **-l**—(Optional) Specifies the output line count.
  - **-w**—(Optional) Specifies the output word count.
  - **>**—Redirects it to a file.
  - **|**—Pipes command output to filter.

Use this command to view OBFL data from the system hardware. The OBFL feature is enabled by default and records operating temperatures, hardware uptime, interrupts, and other important events and messages that can assist with diagnosing problems with hardware cards or modules installed in a Cisco router or switch. Data is logged to files stored in nonvolatile memory. When the onboard hardware is started up, a first record is made for each area monitored and becomes a base value for subsequent records.

The OBFL feature provides a circular updating scheme for collecting continuous records and archiving older (historical) records, ensuring accurate data about the system. Data is recorded in one of two formats: continuous information that displays a snapshot of measurements and samples in a continuous file, and summary information that provides details about the data being collected. The message “No historical data to display” is seen when historical data is not available.

## Examples

This example shows how to display the OBFL boot and uptime information:

```
switch# show logging onboard boot-uptime
Wed Jan 30 06:11:59 2013:  Boot Record
-----
Boot Time.....: Wed Jan 30 06:11:59 2013
Slot Number.....: 1
Serial Number.....: FLC12345678
Bios Version.....: v1.2.0(06/19/08)
Firmware Version...: 6.0(2)N1(1) [build 6.0(2)N1(1)]
```

[Table 1](#) describes the significant fields shown in the display.

**Table 1** *show logging onboard boot-uptime Command Output*

Field	Description
Boot Time	Time boot occurred.
Slot Number	Slot number.
Serial Number	Serial number of the module.
Bios Version	Primary binary input and output system (BIOS) version.
Firmware Version	Firmware version.

This example shows how to display the OBFL logging device information:

```
switch# show logging onboard device-version
```

```
-----
OBFL Data for
Module: 1
-----
```

```
Device Version Record
```

```
-----
Timestamp                Device Name          Instance Hardware Software
                        Num    Version  Version
-----
Wed Jan 30 07:07:00 2013  GATOS                2          2          0
Wed Jan 30 07:07:00 2013  GATOS                3          2          0
Wed Jan 30 07:07:00 2013  GATOS                4          2          0
Wed Jan 30 07:07:00 2013  GATOS                5          2          0
Wed Jan 30 07:07:00 2013  GATOS                6          2          0
Wed Jan 30 07:07:00 2013  GATOS                7          2          0
Wed Jan 30 07:07:00 2013  GATOS                8          2          0
Wed Jan 30 07:07:00 2013  GATOS                9          2          0
Wed Jan 30 07:07:00 2013  GATOS               10          2          0
Wed Jan 30 07:07:00 2013  GATOS               11          2          0
Wed Jan 30 07:07:00 2013  GATOS               12          2          0
Wed Jan 30 07:07:00 2013  GATOS               13          2          0
Wed Jan 30 07:07:00 2013  ALTOS                 0          2          0
Wed Jan 30 07:07:00 2013  GATOS                 0          2          0
Wed Jan 30 07:07:00 2013  GATOS                 1          2          0
Wed Jan 30 07:07:00 2013  GATOS                 2          2          0
-----
```

Table 2 describes the significant fields shown in the display.

**Table 2** *show logging onboard device-version Command Output*

Field	Description
Timestamp	Day, date, and time.
Device Name	Device name.
Instance Num	Number of instances.
Hardware Version	Hardware device version.
Software Version	Software device version.

This example shows how to display the OBFL history information:

```
switch# show logging onboard obfl-history
```

The **show logging onboard obfl-history** command displays the following information:

- Timestamp when OBFL is manually disabled.
- Timestamp when OBFL is manually enabled.
- Timestamp when OBFL data is manually cleared.

This example shows how to display the OBFL kernel stack trace information:

```
switch# show logging onboard stack-trace
```

The **show logging onboard stack-trace** command displays the following information:

- Time in seconds

- Time in microseconds
- Error description string
- Current process name and identification
- Kernel jiffies
- Stack trace

---

**Related Commands**

Command	Description
<b>clear logging onboard</b>	Clears the OBFL entries in the persistent log.
<b>hw-module logging onboard</b>	Enables or disabled OBFL entries based on the error type.

# show logging pending

To display the pending changes to the syslog server configuration, use the **show logging pending** command.

**show logging pending**

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

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

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

<b>Command History</b>	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display the pending changes to the syslog server configuration:
	switch# <b>show logging pending</b> switch#

<b>Related Commands</b>	Command	Description
	<b>logging abort</b>	Cancels the pending changes to the syslog server configuration.

# show logging pending-diff

To display the differences from the current syslog server configuration to the pending changes of the syslog server configuration, use the **show logging pending-diff** command.

**show logging pending-diff**

---

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

---

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

---

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

---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

---

---

<b>Examples</b>	This example shows how to display the pending differences of the syslog server configuration:
-----------------	---

```
switch# show logging pending-diff
switch#
```

---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	logging abort	Cancels the pending changes to the syslog server configuration.

---

# show logging session status

To display the logging session status, use the **show logging session status** command.

**show logging session status**

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

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

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

<b>Command History</b>	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the logging session status:</p> <pre>switch# show logging session status</pre>
-----------------	---

<b>Related Commands</b>	Command	Description
	<b>logging level</b>	Enables logging messages from a defined facility.

# show logging server

To display the syslog server configuration, use the **show logging server** command.

## **show logging server**

---

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

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

---

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

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<b>Examples</b>	<p>This example shows how to display the syslog server configuration:</p> <pre>switch# <b>show logging server</b></pre>
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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>logging server</b>	Configures a remote syslog server.

---



# show logging status

To display the logging status, use the **show logging status** command.

**show logging status**

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

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

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

<b>Command History</b>	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	This example shows how to display the logging status:
-----------------	---

```
switch# show logging status
Fabric Distribute      : Enabled
Session State         : IDLE
switch#
```

<b>Related Commands</b>	Command	Description
	<b>logging distribute</b>	Enables the distribution of the syslog server configuration to network switches using the Cisco Fabric Services (CFS) infrastructure.

# show logging timestamp

To display the logging time-stamp configuration, use the **show logging timestamp** command.

**show logging timestamp**

---

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

---

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

---

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

---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

---

---

<b>Examples</b>	This example shows how to display the logging time-stamp configuration:  switch# <b>show logging timestamp</b>
-----------------	--

---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>logging timestamp</b>	Configures the logging time stamp granularity.

---

# show monitor session

To display information about the Switched Port Analyzer (SPAN) or Encapsulated Remote Switched Port Analyzer (ERSPAN) sessions, use the **show monitor session** command.

**show monitor session** [*session* | **all** [**brief**] | **range** *range* [**brief**] | **status**]

## Syntax Description

<i>session</i>	(Optional) Number of the session. The range is from 1 to 18.
<b>all</b>	(Optional) Displays all sessions.
<b>brief</b>	(Optional) Displays a brief summary of the information.
<b>range</b> <i>range</i>	(Optional) Displays a range of sessions. The range is from 1 to 18.
<b>status</b>	(Optional) Displays the operational state of all sessions.
<b>Note</b> This keyword applies only to SPAN sessions.	

## Command Default

None

## Command Modes

EXEC mode

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display information about SPAN session 1:

```
switch# show monitor session 1
session 1
-----
description      : A Local SPAN session
type             : local
state            : down (No operational src/dst)
source intf      :
    rx           : Eth1/5
    tx           : Eth1/5
    both         : Eth1/5
source VLANs     :
    rx           :
source VSANs     :
    rx           :
destination ports : Eth1/21

Legend: f = forwarding enabled, l = learning enabled

switch#
```

This example shows how to display a brief information about a SPAN session:

```
switch# show monitor session range 1 brief
session 1
-----
```

```

description      : A Local SPAN session
type             : local
state           : down (No operational src/dst)
source intf      :
    rx           : Eth1/5
    tx           : Eth1/5
    both         : Eth1/5
source VSANs     :
destination ports : Eth1/21

```

Legend: f = forwarding enabled, l = learning enabled

switch#

This example shows how to display the information about an ERSPAN session on a switch:

```

switch# show monitor session 1
session 1
-----
description      : ERSPAN Source configuration
type             : erspan-source
state           : down (No valid global IP Address)
flow-id          : 1
vrf-name         : default
destination-ip    : 192.0.2.1
ip-ttl           : 255
ip-dscp          : 0
origin-ip        : origin-ip not specified
source intf      :
    rx           : Eth1/5
    tx           : Eth1/5
    both         : Eth1/5
source VLANs     :
    rx           : 5

```

switch#

#### Related Commands

Command	Description
<b>monitor session</b>	Creates a new Switched Port Analyzer (SPAN) session configuration.
<b>show running-config monitor</b>	Displays the running configuration information about SPAN sessions.

# show ntp authentication-status

To display the status of the Network Time Protocol (NTP) authentication, use the **show ntp authentication-status** command.

**show ntp authentication-status**

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

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

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the authentication status for NTP:</p> <pre>switch(config)# <b>show ntp authentication-status</b></pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	[no] <b>ntp authenticate</b>	Displays information about NTP peers.

# show ntp peer-status

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

**show ntp peer-status**

---

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

---

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

---

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

---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

---

---

<b>Examples</b>	This example shows how to display the peer status for NTP:
-----------------	--

```
switch(config)# show ntp peer-status
```

---

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

---

# show ntp peers

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

**show ntp peers**

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display information about NTP peers:

```
switch(config)# show ntp peers
```

Related Commands	Command	Description
	show ntp peer-status	Displays status information about NTP peers.

# show ntp statistics

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

**show ntp statistics** { **io** | **local** | **memory** | **peer** { **ipaddr** *address* | **name** *name1* [*..nameN*] }

Syntax Description		
<b>io</b>		Displays the input-output statistics.
<b>local</b>		Displays the counters maintained by the local NTP.
<b>memory</b>		Displays the statistics counters related to the memory code.
<b>peer</b>		Displays the per-peer statistics counter of a peer.
<b>ipaddr</b> <i>address</i>		Displays statistics for the peer with the configured IPv4 or IPv6 address. The IPv4 address format is dotted decimal, x.x.x.x. The IPv6 address format is hexadecimal A:B::C:D.
<b>name</b> <i>name1</i>		Displays statistics for a named peer.
<i>..nameN</i>		(Optional) Displays statistics for one or more named peers.

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

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

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the statistics for NTP:

```
switch(config)# show ntp statistics local
```

Related Commands	Command	Description
	<b>clear ntp statistics</b>	Clears NTP statistics



# show ntp timestamp-status

To display the Network Time Protocol (NTP) time-stamp information, use the **show ntp timestamp-status** command.

**show ntp timestamp-status**

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

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

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the NTP time-stamp status:</p> <pre>switch(config)# <b>show ntp timestamp-status</b></pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>clear ntp statistics</b>	Clears NTP statistics
	<b>ntp</b>	Configures NTP peers and servers on the switch.

# show ptp brief

To display the PTP information, use the **show ptp brief** command.

**show ptp brief**

---

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

---

**Command Default** None

---

**Command Modes** Global configuration mode

---

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

---



---

**Examples** This example shows how to display the PTP status:

```
switch(config)# show ptp brief
```

---

Related Commands	Command	Description
	<b>show ptp clock</b>	Displays the properties of the local clock.
	<b>show ptp clocks foreign-masters-record</b>	Displays the state of foreign masters known to the PTP process.
	<b>show ptp corrections</b>	Displays the last few PTP corrections.
	<b>show ptp parent</b>	Displays the properties of the PTP parent and grandmaster clock.
	<b>show ptp port interface</b>	Displays the status of the PTP port.
	<b>show ptp time-property</b>	Displays the PTP clock time properties.

---

# show ptp clock

To display the properties of the local PTP clock including clock identity, use the **show ptp clock** command.

**show ptp clock**

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

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

<b>Command Modes</b>	Global configuration mode
----------------------	---------------------------

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the properties of the local clock:</p> <pre>switch(config)# <b>show ptp clock</b></pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show ptp brief</b>	Displays the PTP status.
	<b>show ptp clocks foreign-masters-record</b>	Displays the state of foreign masters known to the PTP process.
	<b>show ptp corrections</b>	Displays the last few PTP corrections.
	<b>show ptp parent</b>	Displays the properties of the PTP parent and grandmaster clock.
	<b>show ptp port interface</b>	Displays the status of the PTP port.
	<b>show ptp time-property</b>	Displays the PTP clock time properties.

# show ptp clocks foreign-masters-record

To display the state of the foreign masters known to the PTP process, use the **show ptp clocks foreign-masters-record** command.

**show ptp clocks foreign-masters-record** [*ethernet slot*[/*QSFP-module*[/*port*]]

## Syntax Description

<b>ethernet</b>	Specifies an Ethernet interface.
<i>slot</i> [/ <i>QSFP-module</i> [/ <i>port</i> ]]	The <i>slot</i> number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 199. The <i>port</i> number is from 1 to 128.

## Command Modes

Global configuration mode

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Usage Guidelines

For each foreign master, the output displays the clock identity, basic clock properties, and whether the clock is being used as a grandmaster.

## Examples

This example shows how to display the foreign masters known to the PTP process:

```
switch(config)# show ptp foreign-masters-record
```

## Related Commands

Command	Description
<b>show ptp brief</b>	Displays the PTP status.
<b>show ptp clock</b>	Displays the properties of the local clock.
<b>show ptp corrections</b>	Displays the last few PTP corrections.
<b>show ptp port interface</b>	Displays the status of the PTP port.
<b>show ptp parent</b>	Displays the properties of the PTP parent and grandmaster clock.
<b>show ptp time-property</b>	Displays the PTP clock time properties.

# show ptp corrections

To display the last few PTP corrections, use the **show ptp corrections** command.

## show ptp corrections

<b>Syntax Description</b>	There are no arguments or keywords for this command.
---------------------------	--

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

<b>Command History</b>	Release	Modification
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the most recent PTP corrections on the switch:</p> <pre>switch(config)# show ptp corrections</pre>
-----------------	---

<b>Related Commands</b>	Command	Description
	<b>show ptp brief</b>	Displays the PTP status.
	<b>show ptp clock</b>	Displays the properties of the local clock.
	<b>show ptp clocks foreign-masters-record</b>	Displays the state of foreign masters known to the PTP process.
	<b>show ptp port interface</b>	Displays the status of the PTP port.
	<b>show ptp parent</b>	Displays the properties of the PTP parent and grandmaster clock.
	<b>show ptp time-property</b>	Displays the PTP clock time properties.

# show ptp parent

To display the properties of the PTP parent and grandmaster clock, use the **show ptp parent** command.

## show ptp parent

**Syntax Description** There are no arguments or keywords for this command.

**Command Default** None

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the properties of the PTP parent and grandmaster clock:

```
switch(config)# show ptp parent
```

Related Commands	Command	Description
	<b>show ptp brief</b>	Displays the PTP status.
	<b>show ptp clock</b>	Displays the properties of the local clock.
	<b>show ptp clocks foreign-masters-record</b>	Displays the state of foreign masters known to the PTP process.
	<b>show ptp corrections</b>	Displays the last few PTP corrections.
	<b>show ptp port interface</b>	Displays the status of the PTP port.
	<b>show ptp time-property</b>	Displays the PTP clock time properties.

# show ptp port interface

To display the status of the PTP port, use the **show ptp port interface ethernet** command.

**show ptp port interface** [**ethernet** *slot*[/*QSFP-module*]/*port*]

Syntax Description	ethernet	Specifies an Ethernet interface.
	<i>slot</i> [/ <i>QSFP-module</i> ]/ <i>port</i>	The <i>slot</i> number is from 1 to 255. The <i>QSFP-module</i> number is from 1 to 199. The <i>port</i> number is from 1 to 128.

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

Command Modes	Global configuration mode
---------------	---------------------------

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Examples	This example shows how to display the status of the PTP port on the switch:
	<pre>switch(config)# show ptp port interface ethernet 5/1</pre>

Related Commands	Command	Description
	<b>show ptp brief</b>	Displays the PTP status.
	<b>show ptp clock</b>	Displays the properties of the local clock.
	<b>show ptp clocks foreign-masters-record</b>	Displays the state of foreign masters known to the PTP process.
	<b>show ptp corrections</b>	Displays the last few PTP corrections.
	<b>show ptp port interface</b>	Displays the status of the PTP port.
	<b>show ptp parent</b>	Displays the properties of the PTP parent and grandmaster clock.
	<b>show ptp time-property</b>	Displays the PTP clock time properties.

# show ptp time-property

To display the PTP clock time properties, use the **show ptp time-property** command.

**show ptp time-property**

## Syntax Description

There are no arguments or keywords for this command.

## Command Default

None

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display the PTP clock time properties:

```
switch(config)# show ptp time-property
```

## Related Commands

Command	Description
<b>show ptp brief</b>	Displays the PTP status.
<b>show ptp clock</b>	Displays the properties of the local clock.
<b>show ptp clocks foreign-masters-record</b>	Displays the state of foreign masters known to the PTP process.
<b>show ptp corrections</b>	Displays the last few PTP corrections.
<b>show ptp parent</b>	Displays the properties of the PTP parent and grandmaster clock.
<b>show ptp port interface</b>	Displays the status of the PTP port.



# show running-config monitor

To display the running configuration for the Switched Port Analyzer (SPAN) or Encapsulated Remote Switched Port Analyzer (ERSPAN) session, use the **show running-config monitor** command.

**show running-config monitor [all]**

<b>Syntax Description</b>	<b>all</b>	(Optional) Displays current SPAN configuration information including default settings.
<b>Command Default</b>	None	
<b>Command Modes</b>	EXEC mode	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display information on the running SPAN configuration:

```
switch# show running-config monitor

!Command: show running-config monitor
!Time: Wed Jan 30 07:07:00 2013

version 6.0(2)N1(1)
monitor session 1
  description A Local SPAN session
  source interface Ethernet1/5 both
  destination interface Ethernet1/21
  no shut

switch#
```

This example shows how to display detailed information on the running SPAN configuration:

```
switch# show running-config monitor all

!Command: show running-config monitor all
!Time: Wed Jan 30 07:07:00 2013

version 6.0(2)N1(1)
monitor session 1 type local
  description A Local SPAN session
  source interface Ethernet1/5 both
  destination interface Ethernet1/21
  no shut

switch#
```

■ show running-config monitor

**Related Commands**

Command	Description
<b>monitor session</b>	Configures SPAN or ERSPAN sessions.
<b>show monitor session</b>	Displays information about SPAN or ERSPAN sessions.

# show running-config port-security

To display the running system configuration information about secure ports, use the **show running-config port-security** command.

**show running-config port-security [all]**

<b>Syntax Description</b>	<b>all</b>	(Optional) Displays detailed information about secure ports, including default settings.
---------------------------	------------	--

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

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	This command does not require a license.
-------------------------	--

<b>Examples</b>	This example shows how to display the running system configuration of all secure ports on an interface:
-----------------	---

```
switch# show running-config port-security

!Command: show running-config port-security
!Time: Wed Jan 30 07:07:00 2013

version 5.1(3)N1(1)
feature port-security

interface Ethernet1/5
  switchport port-security
  switchport port-security aging time 3
  switchport port-security maximum 10
  switchport port-security mac-address sticky

switch#
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>clear port-security dynamic</b>	Clears the dynamically secured addresses on a port.
	<b>show startup-config port-security</b>	Displays the configuration information in the startup file.

# show snmp community

To display the Simple Network Management Protocol (SNMP) community strings configured on the switch, use the **show snmp community** command.

**show snmp community**

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the SNMP community strings:

```
switch# show snmp community
Community          Group / Access      context      acl_filter
-----
public             network-admin
switch#
```

Related Commands	Command	Description
	<b>snmp-server community</b>	Configures the community access string to permit access to the SNMP protocol.

# show snmp context

To display the Simple Network Management Protocol (SNMP) contexts configured on the switch, use the **show snmp context** command.

**show snmp context**

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

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

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the SNMP contexts:</p> <pre>switch# show snmp context</pre>
-----------------	--

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	snmp-server context	Configures an SNMP context.

# show snmp engineID

To display the identification of the local Simple Network Management Protocol (SNMP) engine, use the **show snmp engineID** command.

**show snmp engineID**

---

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

---

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

---

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

---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

---

---

<b>Usage Guidelines</b>	An SNMP engine is a copy of SNMP that can reside on a local or remote device. SNMP passwords are localized using the SNMP engine ID of the authoritative SNMP engine.
-------------------------	---

---

<b>Examples</b>	This example shows how to display the SNMP engine ID:
-----------------	---

```
switch# show snmp engineID
Local SNMP engineID: [Hex] 8000000903000DECB230C0
                    [Dec] 128:000:000:009:003:000:013:236:178:048:192
switch#
```

---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show running-config snmp</b>	Displays the running configuration information about SNMP.

---

# show snmp group

To display the names of the Simple Network Management Protocol (SNMP) groups configured on the switch, use the **show snmp group** command.

## show snmp group

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

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

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display the SNMP groups:

```
switch# show snmp group
```

```
Role: network-admin
```

```
Description: Predefined network admin role has access to all commands on the switch
```

Rule	Perm	Type	Scope	Entity
1	permit	read-write		

```
Role: network-operator
```

```
Description: Predefined network operator role has access to all read commands on the switch
```

Rule	Perm	Type	Scope	Entity
1	permit	read		

```
Role: vdc-admin
```

```
Description: Predefined vdc admin role has access to all commands within a VDC instance
```

Rule	Perm	Type	Scope	Entity
1	permit	read-write		

```
Role: vdc-operator
```

```
Description: Predefined vdc operator role has access to all read commands within a VDC instance
```

Rule	Perm	Type	Scope	Entity
1	permit	read		

## ■ show snmp group

Role: priv-3  
 Description: This is a system defined privilege role.  
 vsan policy: permit (default)  
 Vlan policy: permit (default)  
 Interface policy: permit (default)  
 Vrf policy: permit (default)

Role: priv-2  
 Description: This is a system defined privilege role.  
 vsan policy: permit (default)  
 Vlan policy: permit (default)  
 Interface policy: permit (default)  
 Vrf policy: permit (default)

Role: priv-1  
 Description: This is a system defined privilege role.  
 vsan policy: permit (default)  
 Vlan policy: permit (default)  
 Interface policy: permit (default)  
 Vrf policy: permit (default)

Role: priv-0  
 Description: This is a system defined privilege role.  
 vsan policy: permit (default)  
 Vlan policy: permit (default)  
 Interface policy: permit (default)  
 Vrf policy: permit (default)

Rule	Perm	Type	Scope	Entity
10	permit	command		traceroute6 *
9	permit	command		traceroute *
8	permit	command		telnet6 *
7	permit	command		telnet *
6	permit	command		ping6 *
5	permit	command		ping *
4	permit	command		ssh6 *
3	permit	command		ssh *
2	permit	command		enable *
1	permit	read		

Role: priv-15  
 Description: This is a system defined privilege role.  
 vsan policy: permit (default)  
 Vlan policy: permit (default)  
 Interface policy: permit (default)  
 Vrf policy: permit (default)

Rule	Perm	Type	Scope	Entity
1	permit	read-write		

switch#

## Related Commands

Command	Description
<b>show running-config snmp</b>	Displays the running configuration information about SNMP.



# show snmp host

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

**show snmp host**

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

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

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

<b>Examples</b>	<p>This example shows how to display the SNMP host:</p> <pre>switch# show snmp host</pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	snmp-server host	Configures an SNMP host.

# show snmp sessions

To display the current Simple Network Management Protocol (SNMP) sessions, use the **show snmp sessions** command.

**show snmp sessions**

---

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

---

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

---

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

---

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	6.0(2)N1(1)	This command was introduced.

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<b>Examples</b>	This example shows how to display the SNMP sessions:  switch# <b>show snmp sessions</b>
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<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show running-config snmp</b>	Displays the running configuration information about SNMP.

---

# show snmp trap

To display the Simple Network Management Protocol (SNMP) link trap generation information, use the **show snmp trap** command.

## show snmp trap

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the SNMP traps:

```
switch# show snmp trap
```

Trap type	Description	Enabled
entity	: entity_mib_change	Yes
entity	: entity_module_status_change	Yes
entity	: entity_power_status_change	Yes
entity	: entity_module_inserted	Yes
entity	: entity_module_removed	Yes
entity	: entity_unrecognised_module	Yes
entity	: entity_fan_status_change	Yes
link	: linkDown	Yes
link	: linkUp	Yes
link	: IETF-extended-linkDown	Yes
link	: IETF-extended-linkUp	Yes
link	: cisco-extended-linkDown	Yes
link	: cisco-extended-linkUp	Yes
callhome	: event-notify	No
callhome	: smtp-send-fail	No
cfs	: state-change-notif	No
cfs	: merge-failure	No
rf	: redundancy_framework	Yes
aaa	: server-state-change	No
license	: notify-license-expiry	Yes
license	: notify-no-license-for-feature	Yes
license	: notify-licensefile-missing	Yes
license	: notify-license-expiry-warning	Yes
zone	: unsupp-mem	No
upgrade	: UpgradeOpNotifyOnCompletion	Yes
upgrade	: UpgradeJobStatusNotify	Yes
feature-control	: FeatureOpStatusChange	No
sysmgr	: cseFailSwCoreNotifyExtended	No
rmon	: risingAlarm	No

## ■ show snmp trap

```
rmon          : fallingAlarm          No
rmon          : hcRisingAlarm         No
rmon          : hcFallingAlarm        No
config        : ccmCLIRunningConfigChanged No
snmp          : authentication        No
bridge        : topologychange        No
bridge        : newroot               No
stp           : inconsistency         No
stpx          : loop-inconsistency    No
stpx          : root-inconsistency    No
switch#
```

**Related Commands**

Command	Description
<b>snmp trap link-status</b>	Enables SNMP link trap generation.

# show snmp user

To display information on each Simple Network Management Protocol (SNMP) user, use the **show snmp user** command.

**show snmp user**

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

**Command Default** None

**Command Modes** EXEC mode

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

**Examples** This example shows how to display the SNMP users configured on the switch:

```
switch# show snmp user
```

```

      SNMP USERS
-----
User                               Auth  Priv(enforce) Groups
-----
admin                             md5   des(no)          network-admin
NOTIFICATION TARGET USERS (configured for sending V3 Inform)
-----
User                               Auth  Priv
-----
switch#
```

This example shows how to display information about a specific SNMP user:

```
switch# show snmp user admin
switch#
```

Related Commands	Command	Description
	snmp-server user	Configures a new user to an SNMP group.

# show monitor session

To display information about the Switched Port Analyzer (SPAN) or Encapsulated Remote Switched Port Analyzer (ERSPAN) sessions, use the **show monitor session** command.

**show monitor session** [*session* | **all** [**brief**] | **range** *range* [**brief**] | **status**]

## Syntax Description

<i>session</i>	(Optional) Number of the session. The range is from 1 to 18.
<b>all</b>	(Optional) Displays all sessions.
<b>brief</b>	(Optional) Displays a brief summary of the information.
<b>range</b> <i>range</i>	(Optional) Displays a range of sessions. The range is from 1 to 18.
<b>status</b>	(Optional) Displays the operational state of all sessions.
<b>Note</b> This keyword applies only to SPAN sessions.	

## Command Default

None

## Command Modes

EXEC mode

## Command History

Release	Modification
6.0(2)N1(1)	This command was introduced.

## Examples

This example shows how to display information about SPAN session 1:

```
switch# show monitor session 1
session 1
-----
description      : A Local SPAN session
type             : local
state            : down (No operational src/dst)
source intf      :
    rx           : Eth1/5
    tx           : Eth1/5
    both         : Eth1/5
source VLANs     :
    rx           :
source VSANs     :
    rx           :
destination ports : Eth1/21
```

Legend: f = forwarding enabled, l = learning enabled

```
switch#
```

This example shows how to display a brief information about a SPAN session:

```
switch# show monitor session range 1 brief
session 1
-----
```

```

description      : A Local SPAN session
type             : local
state            : down (No operational src/dst)
source intf      :
    rx           : Eth1/5
    tx           : Eth1/5
    both         : Eth1/5
source VSANs     :
destination ports : Eth1/21

```

Legend: f = forwarding enabled, l = learning enabled

switch#

This example shows how to display the information about an ERSPAN session:

```

switch# show monitor session 1
session 1
-----
description      : ERSPAN Source configuration
type             : erspan-source
state            : down (No valid global IP Address)
flow-id          : 1
vrf-name         : default
destination-ip    : 192.0.2.1
ip-ttl           : 255
ip-dscp          : 0
origin-ip        : origin-ip not specified
source intf      :
    rx           : Eth1/5
    tx           : Eth1/5
    both         : Eth1/5
source VLANs     :
    rx           : 5
switch#

```

#### Related Commands

Command	Description
<b>monitor session</b>	Creates a new Switched Port Analyzer (SPAN) session configuration.
<b>show running-config monitor</b>	Displays the running configuration information about SPAN sessions.

