



Configuring System Message Logging

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Information About System Message Logging

You can use system message logging to control the destination and to filter the severity level of messages that system processes generate. You can configure logging to terminal sessions, a log file, and syslog servers on remote systems.

System message logging is based on [RFC 3164](#). For more information about the system message format and the messages that the device generates, see the *Cisco NX-OS System Messages Reference*.

By default, the Cisco Nexus device outputs messages to terminal sessions.

By default, the switch logs system messages to a log file.

The following table describes the severity levels used in system messages. When you configure the severity level, the system outputs messages at that level and lower.

Table 1: System Message Severity Levels

Level	Description
0 – emergency	System unusable
1 – alert	Immediate action needed

Level	Description
2 – critical	Critical condition
3 – error	Error condition
4 – warning	Warning condition
5 – notification	Normal but significant condition
6 – informational	Informational message only
7 – debugging	Appears during debugging only

The switch logs the most recent 100 messages of severity 0, 1, or 2 to the NVRAM log. You cannot configure logging to the NVRAM.

You can configure which system messages should be logged based on the facility that generated the message and its severity level.

Syslog Servers

Syslog servers run on remote systems that are configured to log system messages based on the syslog protocol. You can configure the Cisco Nexus Series switch to send logs to up to eight syslog servers.

To support the same configuration of syslog servers on all switches in a fabric, you can use Cisco Fabric Services (CFS) to distribute the syslog server configuration.



Note

When the switch first initializes, messages are sent to syslog servers only after the network is initialized.

Licensing Requirements for System Message Logging

Product	License Requirement
Cisco NX-OS	System message logging requires no license. Any feature not included in a license package is bundled with the Cisco NX-OS system images and is provided at no extra charge to you. For a complete explanation of the Cisco NX-OS licensing scheme, see the <i>Cisco NX-OS Licensing Guide</i> .

Guidelines and Limitations for System Message Logging

System messages are logged to the console and the logfile by default.

Default Settings for System Message Logging

The following table lists the default settings for system message logging parameters.

Table 2: Default System Message Logging Parameters

Parameters	Default
Console logging	Enabled at severity level 2
Monitor logging	Enabled at severity level 2
Log file logging	Enabled to log messages at severity level 5
Module logging	Enabled at severity level 5
Facility logging	Enabled
Time-stamp units	Seconds
Syslog server logging	Disabled
Syslog server configuration distribution	Disabled

Configuring System Message Logging

Configuring System Message Logging to Terminal Sessions

You can configure the switch to log messages by their severity level to console, Telnet, and Secure Shell sessions.

By default, logging is enabled for terminal sessions.

SUMMARY STEPS

1. switch# **terminal monitor**
2. switch# **configure terminal**
3. switch(config)# **logging console** [*severity-level*]
4. (Optional) switch(config)# **no logging console** [*severity-level*]
5. switch(config)# **logging monitor** [*severity-level*]
6. (Optional) switch(config)# **no logging monitor** [*severity-level*]
7. (Optional) switch# **show logging console**
8. (Optional) switch# **show logging monitor**
9. (Optional) switch# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# terminal monitor	Copies syslog messages from the console to the current terminal session.
Step 2	switch# configure terminal	Enters global configuration mode.
Step 3	switch(config)# logging console [<i>severity-level</i>]	Enables the switch to log messages to the console session based on a specified severity level or higher (a lower number value indicates a higher severity level). Severity levels range from 0 to 7: <ul style="list-style-type: none"> • 0 – emergency • 1 – alert • 2 – critical • 3 – error • 4 – warning • 5 – notification • 6 – informational • 7 – debugging <p>If the severity level is not specified, the default of 2 is used.</p>
Step 4	switch(config)# no logging console [<i>severity-level</i>]	(Optional) Disables logging messages to the console.
Step 5	switch(config)# logging monitor [<i>severity-level</i>]	Enables the switch to log messages to the monitor based on a specified severity level or higher (a lower number value indicates a higher severity level). Severity levels range from 0 to 7: <ul style="list-style-type: none"> • 0 – emergency • 1 – alert • 2 – critical

	Command or Action	Purpose
		<ul style="list-style-type: none"> • 3 – error • 4 – warning • 5 – notification • 6 – informational • 7 – debugging <p>If the severity level is not specified, the default of 2 is used. The configuration applies to Telnet and SSH sessions.</p>
Step 6	switch(config)# no logging monitor [<i>severity-level</i>]	(Optional) Disables logging messages to Telnet and SSH sessions.
Step 7	switch# show logging console	(Optional) Displays the console logging configuration.
Step 8	switch# show logging monitor	(Optional) Displays the monitor logging configuration.
Step 9	switch# copy running-config startup-config	(Optional) Copies the running configuration to the startup configuration.

The following example shows how to configure a logging level of 3 for the console:

```
switch# configure terminal
switch(config)# logging console 3
```

The following example shows how to display the console logging configuration:

```
switch# show logging console
Logging console:                enabled (Severity: error)
```

The following example shows how to disable logging for the console:

```
switch# configure terminal
switch(config)# no logging console
```

The following example shows how to configure a logging level of 4 for the terminal session:

```
switch# terminal monitor
switch# configure terminal
switch(config)# logging monitor 4
```

The following example shows how to display the terminal session logging configuration:

```
switch# show logging monitor
Logging monitor:                enabled (Severity: warning)
```

The following example shows how to disable logging for the terminal session:

```
switch# configure terminal
switch(config)# no logging monitor
```

Configuring System Message Logging to a File

You can configure the switch to log system messages to a file. By default, system messages are logged to the file log:messages.

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **logging logfile** *logfile-name severity-level* [**size bytes**]
3. (Optional) switch(config)# **no logging logfile** [*logfile-name severity-level* [**size bytes**]]
4. (Optional) switch# **show logging info**
5. (Optional) switch# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# logging logfile <i>logfile-name severity-level</i> [size bytes]	Configures the name of the log file used to store system messages and the minimum severity level to log. You can optionally specify a maximum file size. The default severity level is 5 and the file size is 4194304. Severity levels range from 0 to 7: <ul style="list-style-type: none"> • 0 – emergency • 1 – alert • 2 – critical • 3 – error • 4 – warning • 5 – notification • 6 – informational • 7 – debugging The file size is from 4096 to 10485760 bytes.
Step 3	switch(config)# no logging logfile <i>[logfile-name severity-level</i> [size bytes]]	(Optional) Disables logging to the log file. You can optionally specify a maximum file size. The default severity level is 5 and the file size is 4194304.
Step 4	switch# show logging info	(Optional) Displays the logging configuration. You can optionally specify a maximum file size. The default severity level is 5 and the file size is 4194304.

	Command or Action	Purpose
Step 5	switch# copy running-config startup-config	(Optional) Copies the running configuration to the startup configuration.

The following example shows how to configure a switch to log system messages to a file:

```
switch# configure terminal
switch(config)# logging logfile my_log 6 size 4194304
```

The following example shows how to display the logging configuration (some of the output has been removed for brevity):

```
switch# show logging info
Logging console:                enabled (Severity: debugging)
Logging monitor:                enabled (Severity: debugging)
Logging linecard:              enabled (Severity: notifications)
Logging fex:                   enabled (Severity: notifications)
Logging timestamp:             Seconds
Logging server:                disabled
Logging logfile:               enabled
                               Name - my_log: Severity - informational Size - 4194304
Facility      Default Severity      Current Session Severity
-----
aaa           3
aclmgr           3
afm           3
altos         3
auth          0
authpriv      3
bootvar       5
callhome      2
capability    2
cdp           2
cert_enroll   2
...
```

Configuring Module and Facility Messages Logging

You can configure the severity level and time-stamp units of messages logged by modules and facilities.

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **logging module** [*severity-level*]
3. switch(config)# **logging level** *facility severity-level*
4. (Optional) switch(config)# **no logging module** [*severity-level*]
5. (Optional) switch(config)# **no logging level** [*facility severity-level*]
6. (Optional) switch# **show logging module**
7. (Optional) switch# **show logging level** [*facility*]
8. (Optional) switch# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# logging module [<i>severity-level</i>]	Enables module log messages that have the specified severity level or higher. Severity levels range from 0 to 7: <ul style="list-style-type: none"> • 0 – emergency • 1 – alert • 2 – critical • 3 – error • 4 – warning • 5 – notification • 6 – informational • 7 – debugging <p>If the severity level is not specified, the default of 5 is used.</p>
Step 3	switch(config)# logging level <i>facility</i> <i>severity-level</i>	Enables logging messages from the specified facility that have the specified severity level or higher. Severity levels from 0 to 7: <ul style="list-style-type: none"> • 0 – emergency • 1 – alert • 2 – critical • 3 – error • 4 – warning • 5 – notification • 6 – informational • 7 – debugging <p>To apply the same severity level to all facilities, use the all facility. For defaults, see the show logging level command.</p>
Step 4	switch(config)# no logging module [<i>severity-level</i>]	(Optional) Disables module log messages.
Step 5	switch(config)# no logging level [<i>facility</i> <i>severity-level</i>]	(Optional) Resets the logging severity level for the specified facility to its default level. If you do not specify a facility and severity level, the switch resets all facilities to their default levels.

	Command or Action	Purpose
Step 6	switch# show logging module	(Optional) Displays the module logging configuration.
Step 7	switch# show logging level [<i>facility</i>]	(Optional) Displays the logging level configuration and the system default level by facility. If you do not specify a facility, the switch displays levels for all facilities.
Step 8	switch# copy running-config startup-config	(Optional) Copies the running configuration to the startup configuration.

The following example shows how to configure the severity level of module and specific facility messages:

```
switch# configure terminal
switch(config)# logging module 3
switch(config)# logging level aaa 2
```

Configuring Logging Timestamps

You can configure the time-stamp units of messages logged by the Cisco Nexus Series switch.

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **logging timestamp** {microseconds | milliseconds | seconds}
3. (Optional) switch(config)# **no logging timestamp** {microseconds | milliseconds | seconds}
4. (Optional) switch# **show logging timestamp**
5. (Optional) switch# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# logging timestamp {microseconds milliseconds seconds}	Sets the logging time-stamp units. By default, the units are seconds.
Step 3	switch(config)# no logging timestamp {microseconds milliseconds seconds}	(Optional) Resets the logging time-stamp units to the default of seconds.
Step 4	switch# show logging timestamp	(Optional) Displays the logging time-stamp units configured.

	Command or Action	Purpose
Step 5	switch# copy running-config startup-config	(Optional) Copies the running configuration to the startup configuration.

The following example shows how to configure the time-stamp units of messages:

```
switch# configure terminal
switch(config)# logging timestamp milliseconds
switch(config)# exit
switch# show logging timestamp
Logging timestamp:                               Milliseconds
```

Configuring the ACL Logging Cache

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **logging ip access-list cache entries num_entries**
3. switch(config)# **logging ip access-list cache interval seconds**
4. switch(config)# **logging ip access-list cache threshold num_packets**
5. (Optional) switch(config)# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# logging ip access-list cache entries num_entries	Sets the maximum number of log entries cached in software. The range is from 0 to 1000000 entries. The default value is 8000 entries.
Step 3	switch(config)# logging ip access-list cache interval seconds	Sets the number of seconds between log updates. Also if an entry is inactive for this duration, it is removed from the cache. The range is from 5 to 86400 seconds. The default value is 300 seconds.
Step 4	switch(config)# logging ip access-list cache threshold num_packets	Sets the number of packet matches before an entry is logged. The range is from 0 to 1000000 packets. The default value is 0 packets, which means that logging is not triggered by the number of packet matches.
Step 5	switch(config)# copy running-config startup-config	(Optional) Saves the change persistently through reboots and restarts by copying the running configuration to the startup configuration.

The following example show how to set the maximum number of log entries to 5000, the interval to 120 seconds, and the threshold to 500000:

```
switch# configure terminal
switch(config)# logging ip access-list cache entries 5000
switch(config)# logging ip access-list cache interval 120
switch(config)# logging ip access-list cache threshold 500000
switch(config)# copy running-config startup-config
```

Applying ACL Logging to an Interface

Before You Begin

- Create an IP access list with at least one access control entry (ACE) configured for logging.
- Configure the ACL logging cache.
- Configure the ACL log match level.

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **interface mgmt0**
3. switch(config-if)# **ip access-group name in**
4. (Optional) switch(config-if)# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# interface mgmt0	Specifies the mgmt0 interface.
Step 3	switch(config-if)# ip access-group name in	Enables ACL logging on ingress traffic for the specified interface.
Step 4	switch(config-if)# copy running-config startup-config	(Optional) Saves the change persistently through reboots and restarts by copying the running configuration to the startup configuration.

The following example shows how to apply the mgmt0 interface with the logging specified in acl1 for all ingress traffic:

```
switch# configure terminal
switch(config)# interface mgmt0
switch(config-if)# ip access-group acl1 in
switch(config-if)# copy running-config startup-config
```

Configuring the ACL Log Match Level

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **aclog match-log-level number**
3. (Optional) switch(config)# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# aclog match-log-level number	Specifies the logging level to match for entries to be logged in the ACL log (aclog). The <i>number</i> is a value from 0 to 7. The default is 6. Note For log messages to be entered in the logs, the logging level for the ACL log facility (aclog) and the logging severity level for the logfile must be greater than or equal to the ACL log match log level setting. For more information, see Configuring Module and Facility Messages Logging, on page 7 and Configuring System Message Logging to a File, on page 6 .
Step 3	switch(config)# copy running-config startup-config	(Optional) Saves the change persistently through reboots and restarts by copying the running configuration to the startup configuration.

Configuring Syslog Servers

You can configure up to eight syslog servers that reference remote systems where you want to log system messages.

SUMMARY STEPS

1. **configure terminal**
2. **logging server host [severity-level [use-vrf vrf-name [facility facility]]]**
3. (Optional) **no logging server host**
4. (Optional) **show logging server**
5. (Optional) **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	<p>configure terminal</p> <p>Example: <pre>switch# configure terminal switch(config)#</pre></p>	Enters global configuration mode.
Step 2	<p>logging server <i>host</i> [<i>severity-level</i> [<i>use-vrf vrf-name</i> [<i>facility facility</i>]]]</p> <p>Example: <pre>switch(config)# logging server 172.28.254.254 5 use-vrf default facility local3</pre></p>	<p>Configures a host to receive syslog messages.</p> <ul style="list-style-type: none"> The <i>host</i> argument identifies the hostname or the IPv4 or IPv6 address of the syslog server host. The <i>severity-level</i> argument limits the logging of messages to the syslog server to a specified level. Severity levels range from 0 to 7. See Table 1: System Message Severity Levels, on page 1. The use vrf <i>vrf-name</i> keyword and argument identify the <i>default</i> or <i>management</i> values for the virtual routing and forwarding (VRF) name. If a specific VRF is not identified, management is the default. However, if management is configured, it will not be listed in the output of the show-running command because it is the default. If a specific VRF is configured, the show-running command output will list the VRF for each server. <p>Note The current Cisco Fabric Services (CFS) distribution does not support VRF. If CFS distribution is enabled, the logging server configured with the default VRF is distributed as the management VRF.</p> <ul style="list-style-type: none"> The <i>facility</i> argument names the syslog facility type. The default outgoing facility is local7. <p>The facilities are listed in the command reference for the Cisco Nexus Series software that you are using.</p> <p>Note Debugging is a CLI facility but the debug syslogs are not sent to the server.</p>
Step 3	<p>no logging server <i>host</i></p> <p>Example: <pre>switch(config)# no logging server 172.28.254.254 5</pre></p>	<p>(Optional) Removes the logging server for the specified host.</p>
Step 4	<p>show logging server</p> <p>Example: <pre>switch# show logging server</pre></p>	<p>(Optional) Displays the syslog server configuration.</p>
Step 5	<p>copy running-config startup-config</p> <p>Example: <pre>switch(config)# copy running-config startup-config</pre></p>	<p>(Optional) Saves the change persistently through reboots and restarts by copying the running configuration to the startup configuration.</p>

The following examples show how to configure a syslog server:

```
switch# configure terminal
switch(config)# logging server 172.28.254.254 5
use-vrf default facility local3

switch# configure terminal
switch(config)# logging server 172.28.254.254 5 use-vrf management facility local3
```

Configuring syslog on a UNIX or Linux System

You can configure a syslog server on a UNIX or Linux system by adding the following line to the `/etc/syslog.conf` file:

```
facility.level <five tab characters> action
```

The following table describes the syslog fields that you can configure.

Table 3: syslog Fields in syslog.conf

Field	Description
Facility	Creator of the message, which can be auth, authpriv, cron, daemon, kern, lpr, mail, mark, news, syslog, user, local0 through local7, or an asterisk (*) for all. These facility designators allow you to control the destination of messages based on their origin. Note Check your configuration before using a local facility.
Level	Minimum severity level at which messages are logged, which can be debug, info, notice, warning, err, crit, alert, emerg, or an asterisk (*) for all. You can use none to disable a facility.
Action	Destination for messages, which can be a filename, a hostname preceded by the at sign (@), or a comma-separated list of users or an asterisk (*) for all logged-in users.

SUMMARY STEPS

1. Log debug messages with the local7 facility in the file `/var/log/myfile.log` by adding the following line to the `/etc/syslog.conf` file:
2. Create the log file by entering these commands at the shell prompt:
3. Make sure that the system message logging daemon reads the new changes by checking `myfile.log` after entering this command:

DETAILED STEPS

Step 1 Log debug messages with the local7 facility in the file `/var/log/myfile.log` by adding the following line to the `/etc/syslog.conf` file:

```
debug.local7                /var/log/myfile.log
```

Step 2 Create the log file by entering these commands at the shell prompt:

```
$ touch /var/log/myfile.log
$ chmod 666 /var/log/myfile.log
```

Step 3 Make sure that the system message logging daemon reads the new changes by checking `myfile.log` after entering this command:

```
$ kill -HUP ~cat /etc/syslog.pid~
```

Configuring syslog Server Configuration Distribution

You can distribute the syslog server configuration to other switches in the network by using the Cisco Fabric Services (CFS) infrastructure.

After you enable syslog server configuration distribution, you can modify the syslog server configuration and view the pending changes before committing the configuration for distribution. As long as distribution is enabled, the switch maintains pending changes to the syslog server configuration.

**Note**

If the switch is restarted, the syslog server configuration changes that are kept in volatile memory might get lost.

Before You Begin

You must have configured one or more syslog servers.

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **logging distribute**
3. switch(config)# **logging commit**
4. switch(config)# **logging abort**
5. (Optional) switch(config)# **no logging distribute**
6. (Optional) switch# **show logging pending**
7. (Optional) switch# **show logging pending-diff**
8. (Optional) switch# **show logging internal info**
9. (Optional) switch# **copy running-config startup-config**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# logging distribute	Enables distribution of the syslog server configuration to network switches using the CFS infrastructure. By default, distribution is disabled.
Step 3	switch(config)# logging commit	Commits the pending changes to the syslog server configuration for distribution to the switches in the fabric.
Step 4	switch(config)# logging abort	Cancels the pending changes to the syslog server configuration.
Step 5	switch(config)# no logging distribute	(Optional) Disables the distribution of the syslog server configuration to network switches using the CFS infrastructure. You cannot disable distribution when configuration changes are pending. See the logging commit and logging abort commands. By default, distribution is disabled.
Step 6	switch# show logging pending	(Optional) Displays the pending changes to the syslog server configuration.
Step 7	switch# show logging pending-diff	(Optional) Displays the differences from the current syslog server configuration to the pending changes of the syslog server configuration.
Step 8	switch# show logging internal info	(Optional) Displays information about the current state of the syslog server distribution and the last action taken.
Step 9	switch# copy running-config startup-config	(Optional) Copies the running configuration to the startup configuration.

Displaying and Clearing Log Files

You can display or clear messages in the log file and the NVRAM.

SUMMARY STEPS

1. switch# **show logging last** *number-lines*
2. switch# **show logging logfile** [**start-time** *yyyy mmm dd hh:mm:ss*] [**end-time** *yyyy mmm dd hh:mm:ss*]
3. switch# **show logging nvram** [*last number-lines*]
4. switch# **clear logging logfile**
5. switch# **clear logging nvram**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# show logging last <i>number-lines</i>	Displays the last number of lines in the logging file. You can specify from 1 to 9999 for the last number of lines.
Step 2	switch# show logging logfile [start-time <i>yyyy mmm dd hh:mm:ss</i>] [end-time <i>yyyy mmm dd hh:mm:ss</i>]	Displays the messages in the log file that have a time stamp within the span entered. If you do not enter an end time, the current time is used. You enter three characters for the month time field and digits for the year and day time fields.
Step 3	switch# show logging nvram [last <i>number-lines</i>]	Displays the messages in the NVRAM. To limit the number of lines displayed, you can enter the last number of lines to display. You can specify from 1 to 100 for the last number of lines.
Step 4	switch# clear logging logfile	Clears the contents of the log file.
Step 5	switch# clear logging nvram	Clears the logged messages in NVRAM.

The following example shows how to display messages in a log file:

```
switch# show logging last 40
switch# show logging logfile start-time 2007 nov 1 15:10:0
switch# show logging nvram last 10
```

The following example shows how to clear messages in a log file:

```
switch# clear logging logfile
switch# clear logging nvram
```

Configuring DOM Logging

Enabling DOM Logging

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **system ethernet dom polling**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.

	Command or Action	Purpose
Step 2	switch(config)# system ethernet dom polling	Enables transceiver digital optical monitoring periodic polling.

The following example shows how to enable DOM logging.

```
switch# configure terminal
switch(config)# system ethernet dom polling
```

Disabling DOM Logging

SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **no system ethernet dom polling**

DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# configure terminal	Enters global configuration mode.
Step 2	switch(config)# no system ethernet dom polling	Disables transceiver digital optical monitoring periodic polling.

The following example shows how to disable DOM logging.

```
switch# configure terminal
switch(config)# no system ethernet dom polling
```

Verifying the DOM Logging Configuration

Command	Purpose
show system ethernet dom polling status	Displays the transceiver digital optical monitoring periodic polling status.

Verifying the System Message Logging Configuration

Use these commands to verify system message logging configuration information:

Command	Purpose
show logging console	Displays the console logging configuration.
show logging info	Displays the logging configuration.
show logging internal info	Displays the syslog distribution information.
show logging ip access-list cache	Displays the IP access list cache.
show logging ip access-list cache detail	Displays detailed information about the IP access list cache.
show logging ip access-list status	Displays the status of the IP access list cache.
show logging last <i>number-lines</i>	Displays the last number of lines of the log file.
show logging level [<i>facility</i>]	Displays the facility logging severity level configuration.
show logging logfile [start-time <i>yyyy mmm dd hh:mm:ss</i>] [end-time <i>yyyy mmm dd hh:mm:ss</i>]	Displays the messages in the log file.
show logging module	Displays the module logging configuration.
show logging monitor	Displays the monitor logging configuration.
show logging nvram [<i>last number-lines</i>]	Displays the messages in the NVRAM log.
show logging pending	Displays the syslog server pending distribution configuration.
show logging pending-diff	Displays the syslog server pending distribution configuration differences.
show logging server	Displays the syslog server configuration.
show logging session	Displays the logging session status.
show logging status	Displays the logging status.
show logging timestamp	Displays the logging time-stamp units configuration.
show running-config aclog	Displays the running configuration for the ACL log file.

