



# Configuring Syslog

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This document describes the Syslog feature and configuration steps to implement Syslog.

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## Prerequisites for Configuring Syslog

- NID must be added to the controller.
- NID must be accessible from the controller.

## Information About Syslog

Syslog is a method to collect messages from devices to a server running a syslog daemon. A syslog service simply accepts messages, and stores them in files or prints them according to a simple configuration file. This form of logging is the best available for Cisco devices because it can provide protected long-term storage for logs. This is useful both in routine troubleshooting and in incident handling.

# Enabling Syslog

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
<b>Step 2</b>	<b>controller nid / NID_ID</b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.
<b>Step 3</b>	<b>sysLog</b>  <b>Example:</b> Switch(config-controller)# sysLog	Enters the sysLog mode.
<b>Step 4</b>	<b>setSyslogProperties sysLogConf {valid   logServer {valid   host {hostname   ipv4address}}}   level {info   error   warning}} {enable   disable}</b>  <b>Example:</b> Switch(config-controller-sysLog)# setSyslogProperties sysLogConf valid enable Switch(config-controller-sysLog)# setSyslogProperties sysLogConf level info Switch(config-controller-sysLog)# setSyslogProperties sysLogConf logServer valid enable Switch(config-controller-sysLog)# setSyslogProperties sysLogConf logServer host ipv4address 10.78.101.221	Configures syslog properties. <ul style="list-style-type: none"> <li>• <b>sysLogConf</b>—Sets syslog properties.</li> <li>• <b>valid</b>—Enables or disables logging.</li> <li>• <b>logServer</b>—Specifies the logging server.</li> <li>• <b>valid</b>—Enables or disables logging server.</li> <li>• <b>host</b>—Specifies log server name or hostname.</li> <li>• <b>hostname</b>—Specifies domain name of the logging server.</li> <li>• <b>ipv4address</b>—Specifies IPv4 address of the logging server.</li> <li>• <b>level</b>—Specifies the log level.</li> <li>• <b>info</b>— Specifies the level information.</li> <li>• <b>error</b>— Specifies the level error.</li> <li>• <b>warning</b>— Specifies the level warning.</li> <li>• <b>enable</b>— Enables configuration of syslog properties.</li> <li>• <b>disable</b>— Disables configuration of syslog properties.</li> </ul>
<b>Step 5</b>	<b>setSyslogProperties review</b>  <b>Example:</b> Switch(config-controller-sysLog)# setSyslogProperties review	Displays the configuration.

	Command or Action	Purpose
Step 6	<b>setSyslogProperties commit</b>  <b>Example:</b> Switch(config-controller-sysLog) # setSyslogProperties commit	Sends the configuration to NID.
Step 7	<b>exit</b>  <b>Example:</b> Switch(config-controller-sysLog) # exit	.Exits to the config-controller mode.

### Configuration Example

The example shows how to enable syslog:

```
Switch(config-controller-sysLog) # setSyslogProperties sysLogConf valid enable
Switch(config-controller-sysLog) # setSyslogProperties sysLogConf level info
Switch(config-controller-sysLog) # setSyslogProperties sysLogConf logServer valid enable
Switch(config-controller-sysLog) # setSyslogProperties sysLogConf logServer host ipv4address
10.78.101.221
```

```
Switch(config-controller-sysLog) # setSyslogProperties review
Switch(config-controller-sysLog) # setSyslogProperties commit
Switch(config-controller-sysLog) # exit
```

## Clearing Syslog

### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>configure terminal</b>  <b>Example:</b> Switch# configure terminal	Enters global configuration mode.
Step 2	<b>controller nid / NID_ID</b>  <b>Example:</b> Switch(config)# controller nid 1/2	Enters the controller configuration mode.
Step 3	<b>sysLog</b>  <b>Example:</b> Switch(config-controller) # sysLog	Enters the sysLog mode.
Step 4	<b>clearSysLog clearLogLevelConf {error   info   warning} {enable   disable}</b>	Clears system log information. <ul style="list-style-type: none"> <li>• <b>clearLogLevelConf</b>—Clears log information.</li> </ul>

	Command or Action	Purpose
	<p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  clearLogLevelConf info enable</p>	<ul style="list-style-type: none"> <li>• <b>error</b>—Specifies level error.</li> <li>• <b>info</b>—Specifies level information.</li> <li>• <b>warning</b>—Specifies level warning.</li> <li>• <b>enable</b>—Enables the clearing of log information.</li> <li>• <b>disable</b>—Disables the clearing of log information.</li> </ul>
<b>Step 5</b>	<p><b>clearSysLog review</b></p> <p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  review</p>	Displays the configuration.
<b>Step 6</b>	<p><b>clearSysLog commit</b></p> <p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  commit</p>	Sends the configuration to NID.
<b>Step 7</b>	<p><b>clearSysLog clearLogLevelConf {error   info   warning} {enable   disable}</b></p> <p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  clearLogLevelConf error enable</p>	<p>Clears system log level errors.</p> <ul style="list-style-type: none"> <li>• <b>clearLogLevelConf</b>—Clears log information.</li> <li>• <b>error</b>—Specifies level error.</li> <li>• <b>info</b>—Specifies level information.</li> <li>• <b>warning</b>—Specifies level warning.</li> <li>• <b>enable</b>—Enables the clearing of log information.</li> <li>• <b>disable</b>—Disables the clearing of log information.</li> </ul>
<b>Step 8</b>	<p><b>clearSysLog review</b></p> <p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  review</p>	Displays the configuration.
<b>Step 9</b>	<p><b>clearSysLog commit</b></p> <p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  commit</p>	Sends the configuration to NID.
<b>Step 10</b>	<p><b>clearSysLog clearLogLevelConf {error   info   warning} {enable   disable}</b></p> <p><b>Example:</b>  Switch(config-controller-sysLog)# clearSysLog  clearLogLevelConf warning enable</p>	<p>Clears system log level warnings.</p> <ul style="list-style-type: none"> <li>• <b>clearLogLevelConf</b>—Clears log information.</li> <li>• <b>error</b>—Specifies level error.</li> <li>• <b>info</b>—Specifies level information.</li> <li>• <b>warning</b>—Specifies level warning.</li> </ul>

	Command or Action	Purpose
		<ul style="list-style-type: none"> <li>• <b>enable</b>—Enables the clearing of log information.</li> <li>• <b>disable</b>—Disables the clearing of log information.</li> </ul>
<b>Step 11</b>	<b>clearSysLog review</b>  <b>Example:</b> Switch(config-controller-sysLog)# clearSysLog review	Displays the configuration.
<b>Step 12</b>	<b>clearSysLog commit</b>  <b>Example:</b> Switch(config-controller-sysLog)# clearSysLog commit	Sends the configuration to NID.
<b>Step 13</b>	<b>exit</b>  <b>Example:</b> Switch(config-controller-sysLog)# exit	Exits to the config-controller mode.

### Configuration Example

The example shows how to clear syslog:

```
Switch(config-controller-sysLog)# clearSysLog clearLogLevelConf info
Switch(config-controller-sysLog)# clearSysLog review
Switch(config-controller-sysLog)# clearSysLog commit
Switch(config-controller-sysLog)# clearSysLog clearLogLevelConf error
Switch(config-controller-sysLog)# clearSysLog review
Switch(config-controller-sysLog)# clearSysLog commit
Switch(config-controller-sysLog)# clearSysLog clearLogLevelConf warning
Switch(config-controller-sysLog)# clearSysLog review
Switch(config-controller-sysLog)# clearSysLog commit
Switch(config-controller-sysLog)# exit
```

## Verifying Syslog

Use the following command to verify the syslog status on the controller.

- **showLogLevelConf**

This command displays the syslog configuration status on the NID. The following is a sample output from the command:

```
Switch(config-controller-sysLog)# showSysLog showLogLevelConf
Switch(config-controller-sysLog)# showSysLog review
```

```
Commands in queue:
showSysLog showLogLevelConf
```

```
Switch(config-controller-sysLog)# showSysLog commit
```

```
Clearing Socket 0 Clearing Socket 0
ShowSysLog_Output.showLogLevelResponse.hostMode = true
ShowSysLog_Output.showLogLevelResponse.hostAddress = '10.78.101.221'
ShowSysLog_Output.showLogLevelResponse.logLevel = 'info'
ShowSysLog_Output.showLogLevelResponse.noOfLogEntries.InfoCounter =
40
ShowSysLog_Output.showLogLevelResponse.noOfLogEntries.warningCounter
= 0
ShowSysLog_Output.showLogLevelResponse.noOfLogEntries.errorCounter =
0

ShowSysLog Commit Success!!!
```