



Secure Logging Commands

This module describes the Cisco IOS XR software commands used to configure secure logging on the Cisco NCS 5500 Series Routers over Transport Layer Security (TLS). TLS, the successor of Secure Socket Layer (SSL), is an encryption protocol designed for data security over networks.

For detailed information about secure logging concepts, configuration tasks, and examples, see the *Implementing Secure Logging* module in the *System Security Configuration Guide for Cisco NCS 5500 Series Routers*.



Note Starting with Cisco IOS XR Release 7.0.1, all commands applicable for the Cisco NCS 5500 Series Router are also supported on the Cisco NCS 540 Series Router.

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address

To configure the syslog server settings with IP address, use the **address** command in logging TLS peer configuration mode. To remove the configuration, use the **no** form of this command.

```
address { IPv4 ipv4-address | IPv6 ipv6-address }
```

Syntax Description	
	<i>ipv4-address</i> IPv4 address in A:B:C:D format.
	<i>ipv6-address</i> IPv6 address in X:X::X format.

Command Default	
	None

Command Modes	
	Logging TLS peer configuration mode

Command History	Release	Modification
	Release 6.2.1	This command was introduced.

Usage Guidelines	
	You can use the IPv4 or IPv6 address of the server to access the remote syslog server.

Task ID	Task ID	Operations
	logging	Read, Write

Examples

The following example shows how to configure syslog server settings with IPv4 address:

```
Router(config)# logging tls-server TEST
Router(config-logging-tls-peer)# severity debugging
Router(config-logging-tls-peer)# trustpoint tp
Router(config-logging-tls-peer)# address ipv4 10.105.230.83
```

Related Commands

Command	Description
logging tls-server, on page 3	Configures syslog over TLS server.
severity, on page 4	Configures the severity of the router.
trustpoint, on page 8	Configures the trustpoint for the TLS server.

logging tls-server

To configure System Logging over Transport Layer Security (TLS) server, use the **logging tls-server** command in Global Configuration mode. To remove the configuration, use the **no** form of this command.

logging tls-server *tls-name*

Syntax Description	<i>tls-name</i> User-defined name for the TLS server.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	Release 6.2.1	This command was introduced.

Usage Guidelines	This command enters the logging TLS peer configuration mode, where you can configure the settings to access the remote syslog server.
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Task ID	Task ID	Operation
	logging	read, write

This example shows how to configure a TLS server that enters the logging TLS peer configuration mode:

```
Router#Configure
Router(config)# logging tls-server TEST
Router(config-logging-tls-peer)#
```

severity

To configure the severity of the router, use the **severity** command in logging TLS peer configuration mode. To remove the configuration, use the **no** form of this command.

```
severity { alerts | critical | debugging | emergencies | errors | informational | notifications | warnings }
```

Syntax Description		
	alerts	Immediate action needed
	critical	Critical conditions
	debugging	Debugging messages
	emergencies	System is unusable
	errors	Error conditions
	informational	Informational messages
	notifications	Normal but significant conditions
	warnings	Warning conditions

Command Default None

Command Modes Logging TLS peer configuration mode

Command History	Release	Modification
	Release 6.2.1	This command was introduced.

Usage Guidelines The router sends syslogs to the server, based on the severity.

Task ID	Task ID	Operations
	logging	Read, Write

Examples

The following example shows how to configure the severity with debugging option:

```
Router(config)# logging tls-server TEST
Router(config-logging-tls-peer)# severity debugging
```

Related Commands

Command	Description
logging tls-server , on page 3	Configures syslog over TLS server.

tls-hostname

To configure the syslog server settings with hostname or FQDN of the secure log server, use the **tls-hostname** command in logging TLS peer configuration mode. To remove the configuration, use the **no** form of this command.

tls-hostname *hostname*

Syntax Description	<i>hostname</i> Name of the logging host.				
Command Default	None				
Command Modes	Logging TLS peer configuration mode				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 6.2.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 6.2.1	This command was introduced.
Release	Modification				
Release 6.2.1	This command was introduced.				
Usage Guidelines	No specific guidelines impact the use of this command.				

Task ID	Task ID	Operations
	logging	Read, Write

Examples

The following example shows how to configure syslog server settings with server hostname:

```
Router(config)# logging tls-server TEST
Router(config-logging-tls-peer)# severity debugging
Router(config-logging-tls-peer)# trustpoint tp
Router(config-logging-tls-peer)# tls-hostname xyz.cisco.com
```

Related Commands	Command	Description
	logging tls-server, on page 3	Configures syslog over TLS server.
	severity , on page 4	Configures the severity of the router.
	trustpoint , on page 8	Configures the trustpoint for the TLS server.

tlsv1-disable

To disable Transport Layer Security (TLS) version 1.0, use the **tlsv1-disable** command in XR Config mode.

tlsv1-disable

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes XR Config mode

Command History	Release	Modification
	Release 7.9.1	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	system	Read, Write

Examples The following example shows how to disable TLS version 1.0:

```
Router(config)# grpc tlsv1-disable
```

trustpoint

To configure syslog server settings with a trustpoint for the TLS server, use the **trustpoint** command in logging TLS peer configuration mode. To remove the configuration, use the **no** form of this command.

trustpoint *trustpoint-name*

Syntax Description	<i>trustpoint-name</i> Name of the configured trustpoint
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Command Default	None
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Command Modes	Logging TLS peer configuration mode
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Command History	Release	Modification
	Release 6.2.1	This command was introduced.

Usage Guidelines	Ensure that you have already configured the trustpoint name, using the crypto ca trustpoint command.
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Task ID	Task ID	Operations
	logging	Read, Write

Examples

The following example shows how to configure syslog server settings with trustpoint:

```
Router(config)# logging tls-server TEST
Router(config-logging-tls-peer)# severity debugging
Router(config-logging-tls-peer)# trustpoint tp
```

Related Commands	Command	Description
	logging tls-server, on page 3	Configures syslog over TLS server.

vrf

To configure the VRF option for the TLS server, use the **vrf** command in logging TLS peer configuration mode. To remove the configuration, use the **no** form of this command.

vrf *vrf-name*

Syntax Description	<i>vrf-name</i> VPN Routing/Forwarding instance name.
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Command Default	None
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Command Modes	Logging TLS peer configuration mode
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Command History	Release	Modification
	Release 6.2.1	This command was introduced.

Usage Guidelines	No specific guidelines impact the use of this command.
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Task ID	Task ID	Operations
	logging	Read, Write

Examples

The following example shows how to configure a VRF instance:

```
Router(config)# logging tls-server TEST
Router(config-logging-tls-peer)# vrf vrfctest
```

Related Commands	Command	Description
	logging tls-server, on page 3	

