



T Commands

This chapter describes the Cisco Nexus 1000V commands that begin with the letter T.

tacacs-server deadtime

To set a periodic time interval where a nonreachable (nonresponsive) TACACS+ server is monitored for responsiveness, use the **tacacs-server deadtime** command. To disable the monitoring of the nonresponsive TACACS+ server, use the **no** form of this command.

tacacs-server deadtime *minutes*

no tacacs-server deadtime *minutes*

Syntax Description	<i>time</i>	Specifies the time interval in minutes. The range is from 1 to 1440.
Defaults	0 minutes	
Command Modes	Global Configuration (config)	
Supported User Roles	network-admin	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Usage Guidelines	Setting the time interval to zero disables the timer. If the dead-time interval for an individual TACACS+ server is greater than zero (0), that value takes precedence over the value set for the server group. When the dead-time interval is 0 minutes, TACACS+ server monitoring is not performed unless the TACACS+ server is part of a server group and the dead-time interval for the group is greater than 0 minutes.	

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In Global Configuration mode, you must first enable the TACACS+ feature, using the **tacacs+ enable** command, before you can use any of the other TACACS+ commands to configure the feature.

Examples

This example shows how to configure the dead-time interval and enable periodic monitoring:

```
n1000v# config terminal
n1000v(config)# tacacs-server deadtime 10
```

This example shows how to revert to the default dead-time interval and disable periodic monitoring:

```
n1000v# config terminal
n1000v(config)# no tacacs-server deadtime 10
```

Related Commands

Command	Description
deadtime	Sets a dead-time interval for monitoring a nonresponsive TACACS+ server.
show tacacs-server	Displays TACACS+ server information.
tacacs+ enable	Enables TACACS+.

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tacacs-server directed-request

To allow users to send authentication requests to a specific TACACS+ server when logging in, use the **radius-server directed request** command. To revert to the default, use the **no** form of this command.

tacacs-server directed-request

no tacacs-server directed-request

Syntax Description	This command has no arguments or keywords.
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Defaults	Disabled
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Command Modes	Global Configuration (config)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	In Global Configuration mode, you must first enable the TACACS+ feature, using the tacacs+ enable command, before you can use any of the other TACACS+ commands to configure the feature. The user can specify the <i>username@vrfname:hostname</i> during login, where <i>vrfname</i> is the virtual routing and forwarding (VRF) name to use and <i>hostname</i> is the name of a configured TACACS+ server. The username is sent to the server name for authentication.
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**Note**

If you enable the directed-request option, the NX-OS device uses only the RADIUS method for authentication and not the default local method.

Examples	This example shows how to allow users to send authentication requests to a specific TACACS+ server when logging in:
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```
n1000v# config t
n1000v(config)# tacacs-server directed-request
```

This example shows how to disallow users to send authentication requests to a specific TACACS+ server when logging in:

```
n1000v# config t
n1000v(config)# no tacacs-server directed-request
```

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Related Commands	Command	Description
	show tacacs-server directed request	Displays a directed request TACACS+ server configuration.
	tacacs+ enable	Enables TACACS+.

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tacacs-server host

To configure TACACS+ server host parameters, use the **tacacs-server host** command in configuration mode. To revert to the defaults, use the **no** form of this command.

```
tacacs-server host {hostname | ipv4-address | ipv6-address}
    [key [0 | 7] shared-secret] [port port-number]
    [test {idle-time time | password password | username name}]
    [timeout seconds]
```

```
no tacacs-server host {hostname | ipv4-address | ipv6-address}
    [key [0 | 7] shared-secret] [port port-number]
    [test {idle-time time | password password | username name}]
    [timeout seconds]
```

Syntax Description

<i>hostname</i>	TACACS+ server Domain Name Server (DNS) name. The name is alphanumeric, case sensitive, and has a maximum of 256 characters.
<i>ipv4-address</i>	TACACS+ server IPv4 address in the <i>A.B.C.D</i> format.
<i>ipv6-address</i>	TACACS+ server IPv6 address in the <i>X:X::X:X</i> format.
key	(Optional) Configures the TACACS+ server's shared secret key.
0	(Optional) Configures a preshared key specified in clear text (indicated by 0) to authenticate communication between the TACACS+ client and server. This is the default.
7	(Optional) Configures a preshared key specified in encrypted text (indicated by 7) to authenticate communication between the TACACS+ client and server.
<i>shared-secret</i>	Preshared key to authenticate communication between the TACACS+ client and server. The preshared key is alphanumeric, case sensitive, and has a maximum of 63 characters.
port <i>port-number</i>	(Optional) Configures a TACACS+ server port for authentication. The range is from 1 to 65535.
test	(Optional) Configures parameters to send test packets to the TACACS+ server.
idle-time <i>time</i>	(Optional) Specifies the time interval (in minutes) for monitoring the server. The time range is 1 to 1440 minutes.
password <i>password</i>	(Optional) Specifies a user password in the test packets. The password is alphanumeric, case sensitive, and has a maximum of 32 characters.
username <i>name</i>	(Optional) Specifies a user name in the test packets. The username is alphanumeric, case sensitive, and has a maximum of 32 characters.
timeout <i>seconds</i>	(Optional) Configures a TACACS+ server timeout period (in seconds) between retransmissions to the TACACS+ server. The range is from 1 to 60 seconds.

Defaults

Parameter	Default
Idle-time	disabled

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Server monitoring	disabled
Timeout	1 seconds
Test username	test
Test password	test

Command Modes Global Configuration (config)

SupportedUserRoles network-admin

Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines

You must use the **tacacs+ enable** command before you configure TACACS+.

When the idle time interval is 0 minutes, periodic TACACS+ server monitoring is not performed.

Examples This example shows how to configure TACACS+ server host parameters:

```
n1000v# config terminal
n1000v(config)# tacacs-server host 10.10.2.3 key HostKey
n1000v(config)# tacacs-server host tacacs2 key 0 abcd
n1000v(config)# tacacs-server host tacacs3 key 7 1234
n1000v(config)# tacacs-server host 10.10.2.3 test idle-time 10
n1000v(config)# tacacs-server host 10.10.2.3 test username tester
n1000v(config)# tacacs-server host 10.10.2.3 test password 2B9ka5
```

Related Commands	Command	Description
	show tacacs-server	Displays TACACS+ server information.
	tacacs+ enable	Enables TACACS+.

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tacacs-server key

To configure a global TACACS+ shared secret key, use the **tacacs-server key** command. To removed a configured shared secret, use the **no** form of this command.

tacacs-server key [**0** | **7**] *shared-secret*

no tacacs-server key [**0** | **7**] *shared-secret*

Syntax Description	0	(Optional) Configures a preshared key specified in clear text to authenticate communication between the TACACS+ client and server. This is the default.
	7	(Optional) Configures a preshared key specified in encrypted text to authenticate communication between the TACACS+ client and server.
	<i>shared-secret</i>	Preshared key to authenticate communication between the TACACS+ client and server. The preshared key is alphanumeric, case sensitive, and has a maximum of 63 characters.

Defaults	None
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Command Modes	Global Configuration (config)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	You must configure the TACACS+ preshared key to authenticate the device on the TACACS+ server. The length of the key is restricted to 63 characters and can include any printable ASCII characters (white spaces are not allowed). You can configure a global key to be used for all TACACS+ server configurations on the device. You can override this global key assignment by using the key keyword in the tacacs-server host command.
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You must use the **tacacs+ enable** command before you configure TACACS+.

Examples	The following example shows how to configure TACACS+ server shared keys:
----------	--

```
n1000v# config terminal
n1000v(config)# tacacs-server key AnyWord
n1000v(config)# tacacs-server key 0 AnyWord
n1000v(config)# tacacs-server key 7 public
```

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Related Commands	Command	Description
	show tacacs-server	Displays TACACS+ server information.
	tacacs+ enable	Enables TACACS+.

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tacacs-server timeout

To specify the time between retransmissions to the TACACS+ servers, use the **tacacs-server timeout** command. To revert to the default, use the **no** form of this command.

tacacs-server timeout *seconds*

no tacacs-server timeout *seconds*

Syntax Description	<i>seconds</i>	Seconds between retransmissions to the TACACS+ server. The range is from 1 to 60 seconds.
Defaults	5 seconds	
Command Modes	Global Configuration (config)	
Supported User Roles	network-admin	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Usage Guidelines	You must use the tacacs+ enable command before you configure TACACS+.	
Examples	This example shows how to configure the TACACS+ server timeout value: n1000v# config terminal n1000v(config)# tacacs-server timeout 3	
	This example shows how to revert to the default TACACS+ server timeout value: n1000v# config terminal n1000v(config)# no tacacs-server timeout 3	
Related Commands	Command	Description
	show tacacs-server	Displays TACACS+ server information.
	tacacs+ enable	Enables TACACS+.

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tail

To display the last lines of a file, use the **tail** command.

tail [*filesystem:[//module/]*][*directory/*]*filename lines*

Syntax Description	<i>filesystem:</i>	(Optional) Name of a file system. The name is case sensitive.
	<i>//module/</i>	(Optional) Identifier for a supervisor module. Valid values are sup-active , sup-local , sup-remote , or sup-standby . The identifiers are case sensitive.
	<i>directory/</i>	(Optional) Name of a directory. The name is case sensitive.
	<i>filename</i>	Name of the command file. The name is case sensitive.
	<i>lines</i>	(Optional) Number of lines to display. The range is from 0 to 80.

Defaults	10 lines
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Command Modes	Any
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SupportedUserRoles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines

Examples This example shows how to display the last 10 lines of a file:

```
n1000v# tail bootflash:startup.cfg
ip arp inspection filter marp vlan 9
ip dhcp snooping vlan 13
ip arp inspection vlan 13
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
logging level dhcp_snoop 6
logging level eth_port_channel 6
```

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This example shows how to display the last 20 lines of a file:

```
n1000v# tail bootflash:startup.cfg 20
area 99 virtual-link 1.2.3.4
router rip Enterprise
router rip foo
    address-family ipv4 unicast
router bgp 33.33
event manager applet sdtest
monitor session 1
monitor session 2
ip dhcp snooping vlan 1
ip arp inspection vlan 1
ip arp inspection filter marp vlan 9
ip dhcp snooping vlan 13
ip arp inspection vlan 13
ip dhcp snooping
ip arp inspection validate src-mac dst-mac ip
ip source binding 10.3.2.2 0f00.60b3.2333 vlan 13 interface Ethernet2/46
ip source binding 10.2.2.2 0060.3454.4555 vlan 100 interface Ethernet2/10
logging level dhcp_snoop 6
logging level eth_port_channel 6
```

Related Commands

Command	Description
cd	Changes the current working directory.
copy	Copies files.
dir	Displays the directory contents.
pwd	Displays the name of the current working directory.

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telnet

To create a Telnet session, use the **telnet** command.

telnet { *ipv4-address* | *hostname* } [*port-number*] [**vrf** *vrf-name*]

Syntax Description	<i>ipv4-address</i>	IPv4 address of the remote device.
	<i>hostname</i>	Hostname of the remote device. The name is alphanumeric, case sensitive, and has a maximum of 64 characters.
	<i>port-number</i>	(Optional) Port number for the Telnet session. The range is from 1 to 65535.
	vrf <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) name to use for the Telnet session. The name is case sensitive.

Defaults	Port 23
	Default VRF

Command Modes	Any
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	To use this command, you must enable the Telnet server using the telnet server enable command.
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Examples This example shows how to start a Telnet session using an IPv4 address:

```
n1000v# telnet 10.10.1.1 vrf management
```

Related Commands	Command	Description
	clear line	Clears Telnet sessions.
	telnet server enable	Enables the Telnet server.

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telnet server enable

To enable the Telnet server, use the **telnet server enable** command. To disable the Telnet server, use the **no** form of this command.

telnet server enable

no telnet server enable

Syntax Description	This command has no arguments or keywords.
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Defaults	Enabled
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Command Modes	Global Configuration (config)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines

Examples	This example shows how to enable the Telnet server:
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```
n1000v# config t
n1000v(config)# telnet server enable
```

This example shows how to disable the Telnet server:

```
n1000v# config t
n1000v(config)# no telnet server enable
XML interface to system may become unavailable since ssh is disabled
```

Related Commands	Command	Description
	show telnet server	Displays the Telnet server configuration.
	telnet	Creates a Telnet session.

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template data timeout

To designate a timeout period for resending NetFlow template data, use the **template data timeout** command. To remove the timeout period, use the **no** form of this command.

template data timeout *time*

no template data timeout

Syntax Description	<i>time</i> A time period between 1 and 86400 seconds.
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Defaults	None
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Command Modes	Netflow Flow Exporter Version 9 Configuration (config-flow-exporter-version-9)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	
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Examples	This example shows how to configure a 3600-second timeout period for resending NetFlow flow exporter template data:
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```
n1000v# config t
n1000v(config)# flow exporter ExportTest
n1000v(config-flow-exporter)# version 9
n1000v(config-flow-exporter-version-9)# template data timeout 3600
```

This example shows how to remove the timeout period for resending NetFlow flow exporter template data:

```
n1000v# config t
n1000v(config)# flow exporter ExportTest
n1000v(config-flow-exporter)# version 9
n1000v(config-flow-exporter-version-9)# no template data timeout
n1000v(config-flow-exporter)#
```

Related Commands	Command	Description
	version 9	Designates NetFlow export version 9 in the NetFlow exporter.
	flow exporter	Creates a Flexible NetFlow flow exporter.

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Command	Description
option exporter-stats timeout	Specifies a timeout resend period for NetFlow flow exporter data.
option interface-table timeout	Specifies a timeout resend period for the NetFlow flow exporter interface table.
flow record	Creates a Flexible NetFlow flow record.
flow monitor	Creates a Flexible NetFlow flow monitor.
show flow exporter	Displays information about the NetFlow flow exporter.
show flow record	Displays information about NetFlow flow records.
show flow monitor	Displays information about the NetFlow flow monitor.

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terminal event-manager bypass

To bypass the CLI event manager, use the **terminal event-manager bypass** command.

terminal event-manager bypass

Syntax Description	This command has no arguments or keywords.
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Defaults	Event manager is enabled.
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Command Modes	Any
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Supported User Roles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to disable the CLI event manager:
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```
n1000v# terminal event-manager bypass
n1000v#
```

Related Commands	Command	Description
	show terminal	Displays terminal configuration.

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terminal length

To set the number of lines that appear on the screen, use the **terminal length** command.

terminal length *number*

Syntax Description	<i>number</i> Number of lines. The range of valid values is 0 to 511.
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Defaults	28 lines
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Command Modes	Any
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SupportedUserRoles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	Set <i>number</i> to 0 to disable pausing.
------------------	--

Examples	This example shows how to set the number of lines that appear on the screen: n1000v# terminal length 60 n1000v#
----------	--

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

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terminal session-timeout

To set session timeout, use the **terminal session-timeout** command.

terminal session-timeout *time*

Syntax Description	<i>time</i> Timeout time, in seconds. The range of valid values is 0 to 525600.				
Defaults	None				
Command Modes	Any				
Supported User Roles	network-admin network-operator				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>4.0(4)SV1(1)</td><td>This command was introduced.</td></tr></table>	Release	Modification	4.0(4)SV1(1)	This command was introduced.
Release	Modification				
4.0(4)SV1(1)	This command was introduced.				
Usage Guidelines	Set <i>time</i> to 0 to disable timeout.				
Examples	This example shows how to set session timeout: <pre>n1000v# terminal session-timeout 100 n1000v#</pre>				
Related Commands	<table><tr><th>Command</th><th>Description</th></tr><tr><td>show terminal</td><td>Displays the terminal configuration.</td></tr></table>	Command	Description	show terminal	Displays the terminal configuration.
Command	Description				
show terminal	Displays the terminal configuration.				

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terminal terminal-type

To specify the terminal type, use the **terminal terminal-type** command.

terminal terminal-type *type*

Syntax Description	<i>type</i> Terminal type.				
Defaults	None				
Command Modes	Any				
Supported User Roles	network-admin network-operator				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>4.0(4)SV1(1)</td><td>This command was introduced.</td></tr></table>	Release	Modification	4.0(4)SV1(1)	This command was introduced.
Release	Modification				
4.0(4)SV1(1)	This command was introduced.				
Examples	This example shows how to specify the terminal type: <pre>n1000v# terminal terminal-type vt100 n1000v#</pre>				
Related Commands	<table><tr><th>Command</th><th>Description</th></tr><tr><td>show terminal</td><td>Displays the terminal configuration.</td></tr></table>	Command	Description	show terminal	Displays the terminal configuration.
Command	Description				
show terminal	Displays the terminal configuration.				

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terminal tree-update

To update the main parse tree, use the **terminal tree-update** command.

terminal tree-update

Syntax Description	This command has no arguments or keywords.
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Defaults	None
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Command Modes	Any
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Supported User Roles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to update the main parse tree:
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```
n1000v# terminal tree-update
n1000v#
```

Related Commands	Command	Description
	show terminal	Displays the terminal configuration.

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terminal width

To set terminal width, use the **terminal width** command.

terminal width *number*

Syntax Description	<i>number</i> Number of characters on a single line. The range of valid values is 24 to 511.				
Defaults	102 columns				
Command Modes	Any				
Supported User Roles	network-admin network-operator				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>4.0(4)SV1(1)</td><td>This command was introduced.</td></tr></table>	Release	Modification	4.0(4)SV1(1)	This command was introduced.
Release	Modification				
4.0(4)SV1(1)	This command was introduced.				
Examples	This example shows how to set terminal width: <pre>n1000v# terminal width 60 n1000v#</pre>				
Related Commands	<table><tr><th>Command</th><th>Description</th></tr><tr><td>show terminal</td><td>Displays the terminal configuration.</td></tr></table>	Command	Description	show terminal	Displays the terminal configuration.
Command	Description				
show terminal	Displays the terminal configuration.				

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test aaa

To test for AAA on a RADIUS server or server group, use the **test aaa** command.

```
test aaa { group group-name user-name password | server radius address { user-name password |  
             vrf vrf-name user-name password } }
```

Syntax Description	
group	Specifies an AAA server group.
<i>group-name</i>	AAA server group name. The range of valid values is 1 to 32.
<i>user-name</i>	User name. The range of valid values is 1 to 32.
<i>password</i>	User password. The range of valid values is 1 to 32.
server	Specifies an AAA server.
radius	Specifies a RADIUS server.
<i>address</i>	IP address or DNS name.
vrf	Specifies a virtual route.
<i>vrf-name</i>	Virtual route.name.

Defaults	None
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Command Modes	Any
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Supported User Roles	network-admin network-operator
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Examples	This example shows how to test for AAA on RADIUS server: n1000v# test aaa server radius ts1 vrf route1 user1 9w8e7r n1000v#
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Related Commands	Command	Description
	show aaa	Displays AAA information.

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traceroute

To discover the routes that packets take when traveling to an IPv4 address, use the **traceroute** command.

traceroute {*dest-ipv4-addr* | *hostname*} [**vrf** *vrf-name*] [**show-mpls-hops**] [**source** *src-ipv4-addr*]

Syntax Description	
<i>dest-ipv4-addr</i>	IPv4 address of the destination device. The format is <i>A.B.C.D</i> .
<i>hostname</i>	Name of the destination device. The name is case sensitive.
vrf <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) to use. The name is case sensitive.
show-mpls-hops	(Optional) Displays the Multiprotocol Label Switching (MPLS) hops.
source <i>src-ipv4-addr</i>	(Optional) Specifies a source IPv4 address. The format is <i>A.B.C.D</i> .

Defaults	Uses the default VRF. Does not show the MPLS hops. Uses the management IPv4 address for the source address.
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Command Modes	Any
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	To use IPv6 addressing for discovering the route to a device, use the traceroute6 command.
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Examples	This example shows how to discover a route to a device: <pre>n1000v# traceroute 172.28.255.18 vrf management traceroute to 172.28.255.18 (172.28.255.18), 30 hops max, 40 byte packets 1 172.28.230.1 (172.28.230.1) 0.746 ms 0.595 ms 0.479 ms 2 172.24.114.213 (172.24.114.213) 0.592 ms 0.51 ms 0.486 ms 3 172.20.147.50 (172.20.147.50) 0.701 ms 0.58 ms 0.486 ms 4 172.28.255.18 (172.28.255.18) 0.495 ms 0.43 ms 0.482 ms</pre>
----------	---

Related Commands	Command	Description
	traceroute6	Discovers the route to a device using IPv6 addressing.

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transport udp (NetFlow)

To add a destination UDP port from the NetFlow exporter to the collector, use the **transport udp** command. To remove the port, use the **no** form of this command.

transport udp *portnumber*

no transport udp

Syntax Description	<i>portnumber</i> Destination UDP number from 1 to 65535.
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Defaults	None
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Command Modes	Netflow Flow Exporter Configuration (config-flow-exporter)
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SupportedUserRoles	network-admin
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Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.

Usage Guidelines	Avoid using well-known ports 1-1024 when possible.
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Examples	This example shows how to add UDP 200 to the flow exporter:
	<pre>n1000v(config)# flow exporter ExportTest n1000v(config-flow-exporter)# transport udp 200</pre>
	This example shows how to remove UDP 200 from the flow exporter:
	<pre>n1000v(config)# flow exporter ExportTest n1000v(config-flow-exporter)# no transport udp 200</pre>

Related Commands	Command	Description
	flow exporter	Creates a Flexible NetFlow flow exporter.
	flow record	Creates a Flexible NetFlow flow record.
	flow monitor	Creates a Flexible NetFlow flow monitor.
	show flow exporter	Displays information about the NetFlow flow exporter.
	show flow record	Displays information about NetFlow flow records.
	show flow monitor	Displays information about the NetFlow flow monitor.