



## T Commands

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This chapter describes the Cisco Nexus Virtual Services Appliance commands that begin with the letter T.

### tacacs+ enable

To enable TACACS+, use the **tacacs+ enable** command. To disable TACACS+, use the **no** form of this command.

**tacacs+ enable**

**no tacacs+ enable**

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

---

**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)SP1(1)	This command was introduced.

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**Examples** This example shows how to enable TACACS+:

```
n1010(config)# tacacs+ enable
n1010(config)#
```

This example shows how to disable TACACS+:

■ tacacs+ enable

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```
n1010(config)# no tacacs+ enable
n1010(config)#
```

---

**Related Commands**

<b>Command</b>	<b>Description</b>
<b>show tacacs-server</b>	Displays the TACACS+ server configuration.
<b>tacacs-server host</b>	Designates the key shared between the Cisco Nexus 1000V and this specific TACACS+ server host.
<b>tacacs-server key</b>	Designates the global key shared between the Cisco Nexus 1000V and the TACACS+ server hosts.

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## 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>	Time interval in minutes. The range is from 1 to 1440.
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Defaults	0 minutes
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Command Modes	Global configuration (config)
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SupportedUserRoles	network-admin
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Command History	Release	Modification
	4.0(4)SP1(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.

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:

```
n1010# configure terminal
n1010(config)# tacacs-server deadtime 10
```

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

```
n1010# configure terminal
n1010(config)# no tacacs-server deadtime 10
```

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Related Commands	Command	Description
	<b>deadtime</b>	Sets a dead-time interval for monitoring a nonresponsive TACACS+ server.
	<b>show tacacs-server</b>	Displays TACACS+ server information.
	<b>tacacs+ enable</b>	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 **tacacs-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.

---

**Defaults** Disabled

---

**Command Modes** Global configuration (config)

---

**SupportedUserRoles** network-admin

---

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

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**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 *username@vrfname:hostname* during login, where *vrfname* is the virtual routing and forwarding (VRF) name to use and *hostname* is the name of a configured TACACS+ server. The username is sent to the server name for authentication.

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

```
n1010# configure terminal
n1010(config)# tacacs-server directed-request
```

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

```
n1010# configure terminal
n1010(config)# no tacacs-server directed-request
```

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Related Commands	Command	Description
	show tacacs-server	Displays the 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.
<b>key</b>	(Optional) Configures the TACACS+ server's shared secret key.
<b>0</b>	(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.
<b>7</b>	(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.
<b>port</b> <i>port-number</i>	(Optional) Configures a TACACS+ server port for authentication. The range is from 1 to 65535.
<b>test</b>	(Optional) Configures parameters to send test packets to the TACACS+ server.
<b>idle-time</b> <i>time</i>	(Optional) Specifies the time interval (in minutes) for monitoring the server. The time range is 1 to 1440 minutes.
<b>password</b> <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.
<b>username</b> <i>name</i>	(Optional) Specifies a username in the test packets. The username is alphanumeric, case sensitive, and has a maximum of 32 characters.
<b>timeout</b> <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)SP1(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:

```
n1010# configure terminal
n1010(config)# tacacs-server host 10.10.2.3 key HostKey
n1010(config)# tacacs-server host tacacs2 key 0 abcd
n1010(config)# tacacs-server host tacacs3 key 7 1234
n1010(config)# tacacs-server host 10.10.2.3 test idle-time 10
n1010(config)# tacacs-server host 10.10.2.3 test username tester
n1010(config)# tacacs-server host 10.10.2.3 test password 2B9ka5
```

Related Commands	Command	Description
	<b>show tacacs-server</b>	Displays TACACS+ server information.
	<b>tacacs+ enable</b>	Enables TACACS+.



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## tacacs-server key

To configure a global TACACS+ shared secret key, use the **tacacs-server key** command. To remove 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

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(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.

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

**Examples** This example shows how to configure TACACS+ server shared keys:

```
n1010# configure terminal
n1010(config)# tacacs-server key AnyWord
n1010(config)# tacacs-server key 0 AnyWord
n1010(config)# tacacs-server key 7 public
```

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Related Commands	Command	Description
	<b>show tacacs-server</b>	Displays TACACS+ server information.
	<b>tacacs+ enable</b>	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*

<b>Syntax Description</b>	<i>seconds</i>	Seconds between retransmissions to the TACACS+ server. The range is from 1 to 60 seconds.
<b>Defaults</b>	5 seconds	
<b>Command Modes</b>	Global configuration (config)	
<b>Supported User Roles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.
<b>Usage Guidelines</b>	You must use the <b>tacacs+ enable</b> command before you configure TACACS+.	
<b>Examples</b>	<p>This example shows how to configure the TACACS+ server timeout value:</p> <pre>n1010# configure terminal n1010(config)# tacacs-server timeout 3</pre> <p>This example shows how to revert to the default TACACS+ server timeout value:</p> <pre>n1010# configure terminal n1010(config)# no tacacs-server timeout 3</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show tacacs-server</b>	Displays TACACS+ server information.
	<b>tacacs+ enable</b>	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 <b>sup-active</b> , <b>sup-local</b> , <b>sup-remote</b> , or <b>sup-standby</b> . 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

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

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

```
n1010# 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
```

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

```
n1010# 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
```

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```
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**

<b>Command</b>	<b>Description</b>
<b>cd</b>	Changes the current working directory.
<b>copy</b>	Copies files.
<b>dir</b>	Displays the directory contents.
<b>pwd</b>	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.
<b>vrf</b> <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 command mode

Supported User Roles	
	network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

Usage Guidelines	
	To use this command, you must enable the Telnet server using the <b>telnet server enable</b> command.

**Examples** This example shows how to start a Telnet session using an IPv4 address:

```
n1010# telnet 10.10.1.1 vrf management
```

Related Commands	Command	Description
	<b>clear line</b>	Clears Telnet sessions.
	<b>telnet server enable</b>	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.

**Defaults** Enabled

**Command Modes** Global configuration (config)

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to enable the Telnet server:

```
n1010# configure terminal
n1010(config)# telnet server enable
```

This example shows how to disable the Telnet server:

```
n1010# configure terminal
n1010(config)# no telnet server enable
XML interface to system may become unavailable since ssh is disabled
```

Related Commands	Command	Description
	<b>show telnet server</b>	Displays the Telnet server configuration.
	<b>telnet</b>	Creates a Telnet session.

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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.

---

**Defaults** Event manager is enabled.

---

**Command Modes** Any command mode

---

**SupportedUserRoles** network-admin  
network-operator

---

Syntax Description	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

---



---

**Examples** This example shows how to disable the CLI event manager:

```
n1010# terminal event-manager bypass
n1010#
```

---

Related Commands	Command	Description
	<b>show terminal</b>	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 is from 0 to 511.
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Defaults	28 lines
----------	----------

Command Modes	Any command mode
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SupportedUserRoles	network-admin network-operator
--------------------	-----------------------------------

Command History	Release	Modification
	4.0(4)SP1(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:
----------	--

```
n1010# terminal length 60
n1010#
```

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.

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## terminal monitor

To enable logging for Telnet or Secure Shell (SSH), use the **terminal monitor** command.

**terminal monitor**

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

**Defaults** None

**Command Modes** Any command mode

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to enable logging for Telnet or SSH:

```
n1010# terminal monitor
n1010#
```

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.
	<b>terminal length</b>	Sets the number of lines that appear on the screen.
	<b>terminal session-timeout</b>	Sets the session timeout.
	<b>terminal terminal-type</b>	Specifies the terminal type.
	<b>terminal width</b>	Sets the terminal width.

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## terminal session-timeout

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

**terminal session-timeout** *time*

Syntax Description	<i>time</i>
	Timeout time, in seconds. The range is from 0 to 525600.

Defaults	None
----------	------

Command Modes	Any command mode
---------------	------------------

SupportedUserRoles	network-admin network-operator
--------------------	-----------------------------------

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

Usage Guidelines	Set <i>time</i> to 0 to disable timeout.
------------------	--

Examples	This example shows how to set a session timeout:
----------	--

```
n1010# terminal session-timeout 100
n1010#
```

Related Commands	Command	Description
	<b>show terminal</b>	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*

<b>Syntax Description</b>	<i>type</i>	Terminal type.
<b>Defaults</b>	None	
<b>Command Modes</b>	Any command mode	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.
<b>Examples</b>	<p>This example shows how to specify the terminal type:</p> <pre>n1010# terminal terminal-type vt100 n1010#</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show terminal</b>	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.

---

**Defaults** None

---

**Command Modes** Any command mode

---

**SupportedUserRoles** network-admin  
network-operator

---

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

---

---

**Examples** This example shows how to update the main parse tree:

```
n1010# terminal tree-update
n1010#
```

---

Related Commands	Command	Description
	<b>show terminal</b>	Displays the terminal configuration.

---

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## terminal width

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

**terminal width** *number*

<b>Syntax Description</b>	<i>number</i>	Number of characters on a single line. The range is from 24 to 511.
<b>Defaults</b>	102 columns	
<b>Command Modes</b>	Any command mode	
<b>SupportedUserRoles</b>	network-admin network-operator	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.0(4)SP1(1)	This command was introduced.
<b>Examples</b>	This example shows how to set the terminal width: n1010# <b>terminal width 60</b> n1010#	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show terminal</b>	Displays the terminal configuration.

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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.
<b>vrf</b> <i>vrf-name</i>	(Optional) Specifies the virtual routing and forwarding (VRF) to use. The name is case sensitive.
<b>show-mpls-hops</b>	(Optional) Displays the Multiprotocol Label Switching (MPLS) hops.
<b>source</b> <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.

### Command Modes

Any command mode

### Supported User Roles

network-admin

### Command History

Release	Modification
4.0(4)SP1(1)	This command was introduced.

### Usage Guidelines

To use IPv6 addressing for discovering the route to a device, use the **traceroute6** command.

### Examples

This example shows how to discover a route to a device:

```
n1010# 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
```

### Related Commands

Command	Description
<b>ping</b>	Determines the network connectivity to another device using IPv4 addressing

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