



## CHAPTER 8

# Configuring Telnet

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This chapter describes how to configure Telnet and includes the following topics:

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## Information About the Telnet Server

The Telnet protocol enables you to set up TCP/IP connections to a host. Telnet allows a person at one site to establish a TCP connection to a login server at another site and then passes the keystrokes from one device to the other. Telnet can accept either an IP address or a domain name as the remote device address.

## Prerequisites for Telnet

Telnet has the following prerequisites:

- You have configured IP on a Layer 3 interface, out-of-band on the mgmt 0 interface, or inband on an Ethernet interface.

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## Guidelines and Limitations

- The Telnet server is enabled by default.
- Cisco NX-OS commands may differ from Cisco IOS commands.

## Default Setting

The following table lists the default setting for Telnet.

Parameters	Default
Telnet server	Enabled.

## Configuring Telnet

This section includes the following topics:

- [Enabling the Telnet Server, page 8-2](#)
- [Starting an IP Telnet Session to a Remote Device, page 8-3](#)
- [Clearing Telnet Sessions, page 8-4](#)

## Enabling the Telnet Server

Use this procedure to enable the Telnet server. The Telnet server is enabled by default, but you can use this procedure to re-enable it if necessary.

### BEFORE YOU BEGIN

Before beginning this procedure, you must know or do the following:

- You are logged in to the CLI in EXEC mode.
- By default, the Telnet server is enabled.

### SUMMARY STEPS

1. **config t**
2. **telnet server enable**
3. **exit**
4. **show telnet server**
5. **copy running-config startup-config**

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## DETAILED STEPS

	Command	Purpose
Step 1	<code>config t</code>  <b>Example:</b> n1000v# config t n1000v(config)#	Places you into CLI Global Configuration mode.
Step 2	<code>telnet server enable</code>  <b>Example:</b> n1000v(config)# telnet server enable n1000v(config)#	Enables the Telnet server.
Step 3	<code>show telnet server</code>  <b>Example:</b> n1000v(config)# show telnet server telnet service enabled n1000v(config)#	(Optional) Displays the Telnet server configuration.
Step 4	<code>copy running-config startup-config</code>  <b>Example:</b> n1000v(config)# copy running-config startup-config	(Optional) Copies these changes made in the running configuration to the startup configuration.

## Starting an IP Telnet Session to a Remote Device

Use this procedure to start a Telnet session to a remote device.

### BEFORE YOU BEGIN

Before beginning this procedure, you must know or do the following.

- You are logged in to the CLI in EXEC mode.
- You have verified that the Telnet server is enabled on the remote device.
- You have already obtained the hostname for the remote device and, if needed, the username on the remote device.
- You have already verified that the Telnet server is enabled. If not you have enabled it using the [“Enabling the Telnet Server” procedure on page 8-2](#). By default, the Telnet server is enabled.

### SUMMARY STEPS

1. `telnet {ip address | hostname} [port-number] [vrf vrf-name]`

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## DETAILED STEPS

	Command	Purpose
Step 1	<pre>telnet {ip address   host-name} [port-number] [vrf vrf-name]</pre> <p><b>Example:</b> n1000v# telnet 10.10.1.1</p>	<p>Creates an IP Telnet session to the specified destination.</p> <p><b>port-number:</b> The port number, from 1 to 65535, to use for this session. The default port number is 23.</p> <p><b>vrf-name:</b> The default VRF is the default VRF.</p>

## Clearing Telnet Sessions

Use this procedure to clear Telnet sessions.

### BEFORE YOU BEGIN

Before beginning this procedure, you must know or do the following.

- You are logged in to the CLI in EXEC mode.

### SUMMARY STEPS

- show users
- clear line *vtty-line*

### DETAILED STEPS

	Command	Purpose
Step 1	<pre>show users</pre> <p><b>Example:</b> n1000v# show users</p>	Displays user session information.
Step 2	<pre>clear line vty-line</pre> <p><b>Example:</b> n1000v# clear line 1</p>	Clears a user Telnet session.
Step 3	<pre>show users</pre> <p><b>Example:</b> n1000v# show users</p>	Displays user session information.

**Example:**

```
n1000v# show users
NAME      LINE      TIME          IDLE          PID COMMENT
admin     tty1      Jul 25 19:13  old          2867
admin     pts/1     Jul 28 14:04  .            31453 (::ffff:171.70.209.8)
admin     pts/2     Jul 28 14:04  .            31475 (171.70.209.8)*
n1000v# clear line 1
n1000v# show users
NAME      LINE      TIME          IDLE          PID COMMENT
admin     tty1      Jul 25 19:13  old          2867
admin     pts/2     Jul 28 14:04  .            31475 (171.70.209.8)*
n1000v#
```

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## Verifying the Telnet Configuration

To display the Telnet configuration information, use one of the following commands:

Command	Purpose
<code>show running-config security [all]</code>	Displays the user account configuration in the running configuration. The <b>all</b> keyword displays the default values for the user accounts.
<code>show telnet server</code>	Displays the telnet server configuration.
<code>show hosts</code>	Displays the configuration details for current hosts.
<code>show tcp connection</code>	Displays connection information.

### Example:

```
n1000v# show running-config security all
version 4.0(1)
username admin password 5 $1$xMw2Q/1S$ZEWrvyAxAJAFV0weuSPvg1 role network-admin
username user2 password 5 $1$byNNnnSP$xfXVKje5UEScvriwX3Kyj0 role network-operator
username user2 sshkey ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAQEAyKcb7Nv9Ki100Id9/tdHhA/ngQujlvK5mXyL/n+DeOXXfVhHbX2a+V0cm7CCLU
kBh+BvZRmpmOVTmU/5awfVhVxMKXMiPOPbc+A6/n3FVroyRwupMki6mW
oM6UwaGID5gsVPqFjFNSgMwtbhjo97XVKhgjFW+wOVt8QoAcrEtnwEfsnQk1EIr/0XIP1mqTsrqTsmjZ2vLk+ffzTG
YAxMvYZI+BrN47aoH2yws7CpnODjCDXJuDYSPbc3PA8t0ghU/60m9R+s6AZPuljVQbGfxPrahEu4GVc6sMJNU1
JxmQDJk0dhMArObB4Umzj7E3Rdby/ZWx/clTYiXQR1X1VfhQ==
telnet server enable

banner motd # User Access Verification #

ssh key rsa 1024 force
no ssh key dsa force
ssh server enable
```

## Additional References

For additional information related to implementing Telnet, see the following sections:

- [Related Documents, page 8-5](#)
- [Standards, page 8-6](#)

## Related Documents

Related Topic	Document Title
SSH	<a href="#">Chapter 7, “Configuring SSH”</a>
Complete command syntax, command modes, command history, defaults, usage guidelines, and examples	<i>Cisco Nexus 1000V Command Reference, Release 4.0(4)SV1(3)</i>

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## Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

## Feature History for Telnet

This section provides the Telnet release history.

Feature Name	Releases	Feature Information
Telnet	4.0	This feature was introduced.