



# Configuring Telnet

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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 user at one site to establish a TCP connection to a login server at another site and then pass the keystrokes from one device to the other. Telnet can accept either an IPv4 address or a domain name as the remote device address.

## Prerequisites for Telnet

You have configured IP on a Layer 3 interface, out of band on the mgmt 0 interface.

## Guidelines and Limitations for Telnet

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

## Default Setting for Telnet

Parameter	Default
Telnet server	Disabled

## Configuring Telnet

### Enabling the Telnet Server

The Telnet server is enabled by default, but you can reenable the server if necessary.

#### Before You Begin

Log in to the CLI in EXEC mode.

#### SUMMARY STEPS

1. switch# **configure terminal**
2. switch(config)# **feature telnet**
3. (Optional) switch(config)# **show telnet server**
4. (Optional) switch(config)# **copy running-config startup-config**

#### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	switch# <b>configure terminal</b>	Enters global configuration mode.
<b>Step 2</b>	switch(config)# <b>feature telnet</b>	Enables the Telnet server.
<b>Step 3</b>	switch(config)# <b>show telnet server</b>	(Optional) Displays the Telnet server configuration.
<b>Step 4</b>	switch(config)# <b>copy running-config startup-config</b>	(Optional) Copies the running configuration to the startup configuration.

The following example enables the Telnet server:

```
switch# configure terminal
switch(config)# feature telnet
switch(config)# show telnet server
telnet service enabled
switch(config)# copy running-config startup-config
```

## Starting an IP Telnet Session to a Remote Device

### Before You Begin

- Log in to the CLI in EXEC mode.
- Verify that the Telnet server is enabled and that the server is also enabled on the remote device.
- Obtain the hostname for the remote device and, if needed, the username on the remote device.

### SUMMARY STEPS

1. switch# **telnet** *{ip address | host-name}* [*port-number*] [**vrf** *vrf-name*]

### DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# <b>telnet</b> <i>{ip address   host-name}</i> <i>[port-number]</i> [ <b>vrf</b> <i>vrf-name</i> ]	Creates an IP Telnet session to the specified destination. The keywords and arguments are as follows: <ul style="list-style-type: none"> <li>• <i>port-number</i>—Port number to use for this session. The range is from 1 to 65535. The default port number is 23.</li> <li>• <i>vrf-name</i>—Default virtual routing and forwarding (VRF) instance.</li> </ul>

## Clearing Telnet Sessions

### Before You Begin

Log in to the CLI in EXEC mode.

### SUMMARY STEPS

1. switch# **show users**
2. switch# **clear line** *vtty-line*
3. (Optional) switch# **show users**

### DETAILED STEPS

	Command or Action	Purpose
Step 1	switch# <b>show users</b>	Displays user session information.
Step 2	switch# <b>clear line</b> <i>vtty-line</i>	Clears a user Telnet session.

	Command or Action	Purpose
		<i>vty-line</i> —The Virtual Terminal Line (VTY) to clear.
<b>Step 3</b>	switch# <b>show users</b>	(Optional) Displays user session information.

The following example clears a Telnet session:

```
switch# 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)*
switch# clear line 1
switch# 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)*
switch#
```

## Verifying the Telnet Configuration

Use one of the following commands to verify the configuration:

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

### Example 1: show running-config security all

The following example displays the user account configuration in the running configuration for :

```
switch(config)# show running-config security all

!Command: show running-config security all
!Time: Tue Sep 17 22:04:20 2013

version 5.2(1)SK1(2.1)
feature telnet
feature http-server
no feature scp-server
no feature sftp-server
feature ssh

username adminbackup password 5 ! role network-operator
username admin password 5 $1$qnBf/DZs$SADurdd7yy/VMA19E./N11 role network-admin
username admin keypair rsa
username ajidas password 5 $1$L8yMjMMY$xIGNCA.CkgnVY70nBqnhr1 expire 2020-12-30
role network-operator
```

```
password strength-check

banner motd #Nexus 1000v Switch
#

ssh key rsa 2048
no ssh key dsa
```

### Example 2: show telnet server

The following example displays the Telnet server configuration:

```
switch(config)# show telnet server
telnet service enabled
```

### Example 3: show hosts

The following example displays the configuration details for current hosts:

```
switch(config)# show hosts
DNS lookup enabled
Name/address lookup uses domain service
Name servers are 255.255.255.255
```

```
Host                Address
host1               192.0.2.0
host2               198.51.100.0
host3               203.0.113.0
```

## Feature History for Telnet

Feature Name		Feature Information
Telnet	Release 5.2(1)SK1(2.1)	This feature was introduced.

