

Telnet Access over IPv6

The Telnet client and server in the Cisco software support IPv6 connections.

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Prerequisites for Telnet Access over IPv6

To enable Telnet access over IPv6 to a device, you must create a vty interface and password.

Information About Telnet Access over IPv6

Telnet Access over IPv6

The Telnet client and server in Cisco software support IPv6 connections. A user can establish a Telnet session directly to the device using an IPv6 Telnet client, or an IPv6 Telnet connection can be initiated from the device. A vty interface and password must be created in order to enable Telnet access to an IPv6 device.

How to Enable Telnet Access over IPv6

Enabling Telnet Access to an IPv6 Device and Establishing a Telnet Session

SUMMARY STEPS

- 1. enable
- 2. configure terminal
- **3. ipv6 host** name [port] ipv6-address
- 4. line [aux | console | tty | vty] line-number [ending-line-number]
- 5. password password
- 6. login [local | tacacs]
- 7. ipv6 access-class ipv6-access-list-name {in | out]
- **8. telnet** *host* [port] [keyword]

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	• Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode.
	Example:	
	Device# configure terminal	

	Command or Action	Purpose
Step 3	ipv6 host name [port] ipv6-address	Defines a static hostname-to-address mapping in the hostname cache.
	Example:	
	Device(config) # ipv6 host cisco-sj 2001:DB8:20:1::12	
Step 4	line [aux console tty vty] line-number [ending-line-number]	Creates a vty interface.
	Example:	
	Device(config)# line vty 0 4	
Step 5	password password	Creates a password that enables Telnet.
	Example:	
	Device(config)# password hostword	
Step 6	login [local tacacs]	(Optional) Enables password checking at login.
	Example:	
	Device(config)# login tacacs	
Step 7	ipv6 access-class ipv6-access-list-name {in out]	(Optional) Adds an IPv6 access list to the line interface.
	Example:	 Using this command restricts remote access to sessions that match the access list.
	Device(config)# ipv6 access-list hostlist	
Step 8	telnet host [port] [keyword]	Establishes a Telnet session from a device to a remote host using either the hostname or the IPv6 address.
	Example:	• The Telnet session can be established to a device
	Device(config)# telnet cisco-sj	name or to an IPv6 address.

Configuration Examples for Telnet Access over IPv6

Examples: Enabling Telnet Access to an IPv6 Device

The following examples provide information on how to enable Telnet and start a session to or from an IPv6 device. In the following example, the IPv6 address is specified as 2001:DB8:20:1::12, and the hostname is specified as cisco-sj. The **show host** command is used to verify this information.

```
Device# configure terminal

Device(config)# ipv6 host cisco-sj 2001:DB8:20:1::12

Device(config)# end

Device# show host

Default domain is not set

Name/address lookup uses static mappings

Codes:UN - unknown, EX - expired, OK - OK, ?? - revalidate

temp - temporary, perm - permanent

NA - Not Applicable None - Not defined

Host Port Flags Age Type Address(es)

cisco-sj None (perm, OK) 0 IPv6 2001:DB8:20:1::12
```

To enable Telnet access to a device, create a vty interface and password:

```
Device(config)# line vty 0 4
password lab
login
```

To use Telnet to access the device, you must enter the password:

```
Device# telnet cisco-sj
Trying cisco-sj (2001:DB8:20:1::12)... Open
User Access Verification
Password:
cisco-sj
.
```

It is not necessary to use the **telnet** command. Specifying either the hostname or the address is sufficient, as shown in the following examples:

```
Device# cisco-sj
Or
```

Device# 2001:DB8:20:1::12

To display the IPv6 connected user (line 130) on the device to which you are connected, use the **show users** command:

Note that the address displayed is the IPv6 address of the source of the connection. If the hostname of the source is known (either through a domain name server [DNS] or locally in the host cache), then it is displayed instead:

```
Device# show users
Line User Host(s) Idle Location
```

```
* 0 con 0 idle 00:00:00
130 vty 0 idle 00:02:47 cisco-sj
```

If the user at the connecting device suspends the session with ^6x and then enters the **show sessions** command, the IPv6 connection is displayed:

```
Device# show sessions
```

Conn Host Address Byte Idle Conn Name * 1 cisco-sj 2001:DB8:20:1::12 0 0 cisco-sj

The Conn Name field shows the hostname of the destination only if it is known. If it is not known, the output might look similar to the following:

Device# show sessions

Additional References for IPv6 Source Guard and Prefix Guard

Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	IPv6 Configuration Guide
IPv4 addressing	IP Addressing: IPv4 Addressing Configuration Guide
Cisco IOS commands	Cisco IOS Master Command List, All Releases
IPv6 commands	Cisco IOS IPv6 Command Reference
Cisco IOS IPv6 features	Cisco IOS IPv6 Feature Mapping

Standards and RFCs

Standard/RFC	Title
RFCs for IPv6	IPv6 RFCs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Telnet Access over IPv6

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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Table 1: Feature Information for Telnet Access over IPv6

Feature Name	Releases	Feature Information
Telnet Access over IPv6	12.2(2)T	Telnet access over IPv6 is
	12.2(18)SXE	supported.
	12.2(25)SEA	The following commands were introduced or modified: ipv6 access-class, ipv6 host.
	12.2(25)SG	
	12.2(33)SRA	
	15.0(2)SG	
	Cisco IOS XE Release 2.1	
	Cisco IOS XE Release 3.2SG	