

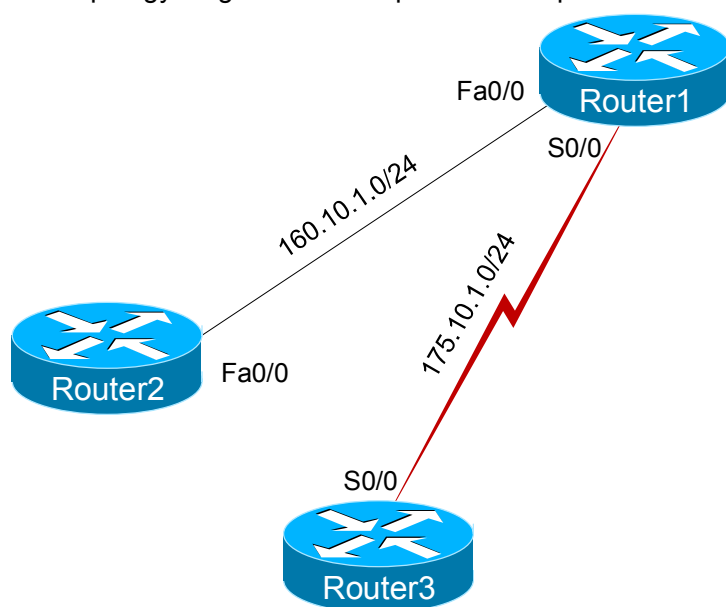
## Sequential Lab: Telnet I

### Objective

Practice connecting to one router from another by using Telnet. Use the Ctrl+Shift+6 then X key combination to suspend Telnet sessions, and use basic **show** commands to display active Telnet sessions.

### Lab Topology

The topology diagram below represents the portion of the network you will configure in this lab.



### Command Summary

Command	Description
<b>configure terminal</b>	enters global configuration mode from privileged EXEC mode
<b>disconnect {ip-address   console}</b>	closes an active console port or Telnet session
<b>enable</b>	enters privileged EXEC mode
<b>end</b>	ends and exits configuration mode
<b>exit</b>	exits one level in the menu structure
<b>line vty 0 4</b>	enters configuration mode for the selected virtual terminal (Telnet) lines
<b>login</b>	enables password checking
<b>password password</b>	specifies the password that is required for a user to log in
<b>show sessions</b>	displays information about local-area transport (LAT), Telnet, or rlogin connections
<b>show users</b>	displays users currently logged in to the router
<b>telnet ip-address</b>	starts the terminal emulation program from a PC, router, or switch that permits you to access devices remotely over the network

## Lab Tasks

The passwords in this lab have been configured as **cisco**.

1. Enable Telnet access on Router3. Enable password checking, and configure a password of **cisco**.
2. From Router1, telnet to Router2 (160.10.1.2).
3. From the Telnet connection you have established to Router2, issue the **show users** command. What information is displayed by this command? \_\_\_\_\_  
\_\_\_\_\_
4. Suspend your Telnet session to Router2 by pressing Ctrl+Shift+6 then X. You should return to Router1 without breaking the active Telnet session.
5. Issue the **show sessions** command on Router1. What active sessions do you see? \_\_\_\_\_  
\_\_\_\_\_
6. Telnet from Router1 to Router3 (175.10.1.2).
7. Suspend the Telnet session to Router3, and return to Router1.
8. On Router1, issue the **show sessions** command. What active sessions do you see? \_\_\_\_\_  
\_\_\_\_\_
9. Disconnect the two suspended sessions on Router1. The number used in the **disconnect** command comes from the leftmost column in the **show sessions** output.
10. On Router1, issue the **show sessions** command again to verify that the suspended Telnet sessions have disappeared.

## Lab Solutions

The passwords in this lab have been configured as **cisco**.

1. On Router3, issue the following commands to enable Telnet access:

```
Router3>enable
Password:cisco
Router3#configure terminal
Router3(config)#line vty 0 4
Router3(config-line)#login
Router3(config-line)#password cisco
```

2. On Router1, issue the following commands to telnet to Router2 (160.10.1.2):

```
Password:cisco
Router1>enable
Password:cisco
Router1#telnet 160.10.1.2
Password:cisco
Router2>
```

3. Once you have accessed Router2, issue the **show users** command. This command shows which remote users are connected to this local router. You should see Router1's IP address (160.10.1.1) as the user that has connected to Router2 using Telnet. The following is sample output:

```
Router2>show users
```

Line	User	Host(s)	Idle	Location
0 con 0		idle	00:00:12	
* 1 vty 1		idle	00:00:00	160.10.1.1

4. Suspend your Telnet session to Router2 by pressing Ctrl+Shift+6 then X. You should return to Router1 without breaking the active Telnet session.

```
Router2>Press the Ctrl+Shift+6 X key combination
Router1#
```

5. On Router1, issue the **show sessions** command. Output from this command shows what active, but suspended, sessions exist with other routers. The following is sample output:

```
Router1#show sessions
```

Conn	Host	Address	Byte	Idle	Conn	Name
* 1	160.10.1.2	160.10.1.2		0	9	160.10.1.2

6. On Router1, issue the following commands to telnet to Router3:

```
Router1#telnet 175.10.1.2
Password:cisco
Router3>
```

7. Suspend the Telnet session to Router3, and return to Router1:

```
Router3>Press Ctrl+Shift+6 X
Router1#
```

8. On Router1, issue the **show sessions** command. You should now see two suspended sessions: one to Router2 (160.10.1.2) and one to Router3 (175.10.1.2). The following is sample output:

```
Router1#show sessions
Conn Host          Address          Byte  Idle Conn Name
*   1 160.10.1.2      160.10.1.2           0     9 160.10.1.2
*   2 175.10.1.2      175.10.1.2           0     9 175.10.1.2
```

9. Disconnect the two suspended sessions on Router1. The number used in the **disconnect** command comes from the leftmost column in the **show sessions** output.

```
Router1#disconnect 2
Closing connection to 175.10.1.2
Router1#disconnect 1
Closing connection to 160.10.1.2
```

10. On Router1, issue the **show sessions** command again to verify that the suspended Telnet sessions have disappeared. The following is sample output:

```
Router1#show sessions
% No connections open
```

## Sample Configuration Script

### Router3

```
Router3#show running-config
Building configuration...
Current configuration : 763 bytes
!
Version 12.3
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname Router3
enable secret 5 $sdf$6978yhg$jnb76sd
!
ip subnet-zero
!
ip cef
no ip domain-lookup
!
interface Serial0/0
 ip address 175.10.1.2 255.255.255.0
 no ip directed-broadcast
!
interface Serial0/1
 ip address 180.10.1.1 255.255.255.0
 no ip directed-broadcast
 clock rate 64000
!
interface FastEthernet0/0
 no ip address
 no ip directed-broadcast
!
interface FastEthernet0/1
 ip address 197.10.1.1 255.255.255.0
 no ip directed-broadcast
!
ip classless
no ip http server
!
line con 0
line aux 0
line vty 0 4
 login
 password cisco
!
no scheduler allocate
end
```