Telnet Lab

CompTIA Network+ Labs

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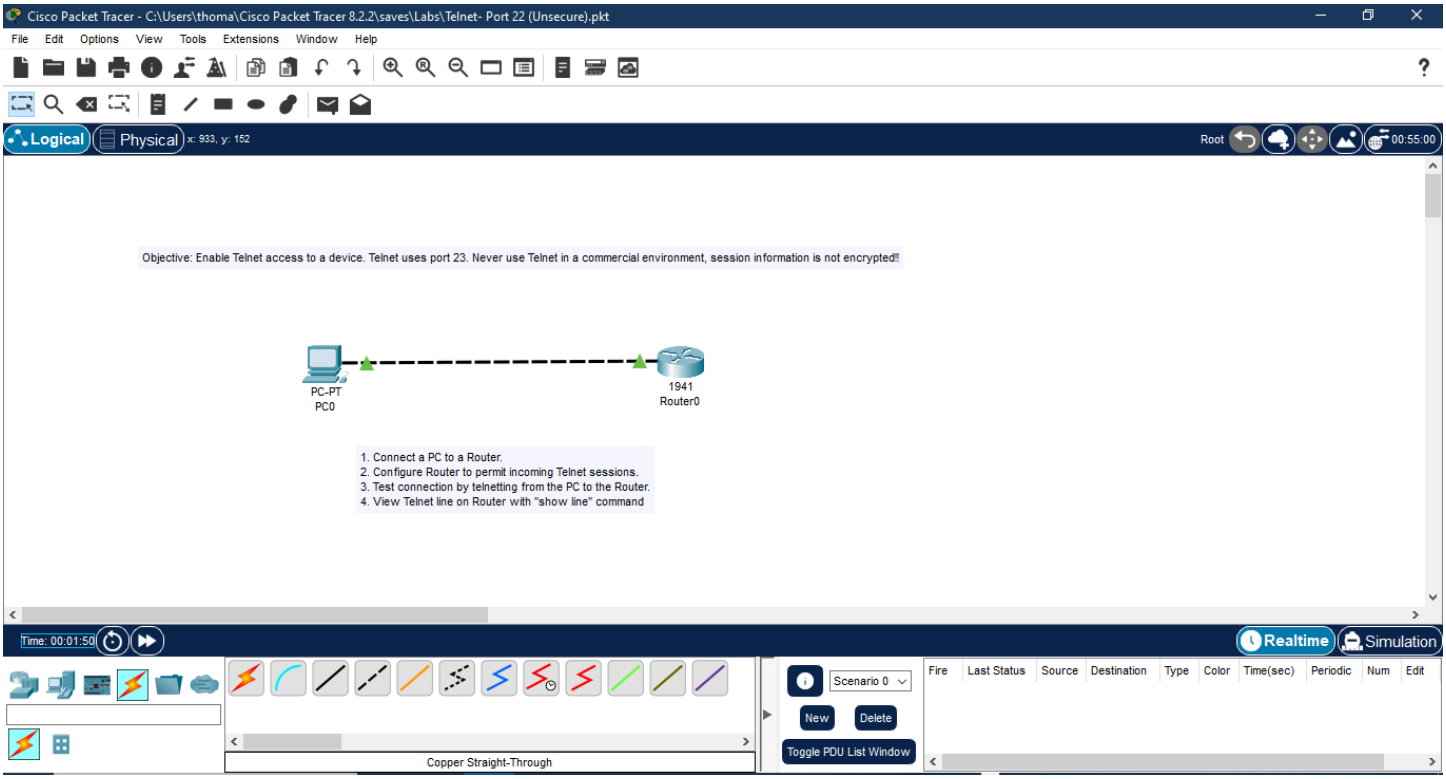
Objective: Enable Telnet access to a device. Telnet uses port 23. Never use Telnet in a commercial environment, session information is not encrypted.

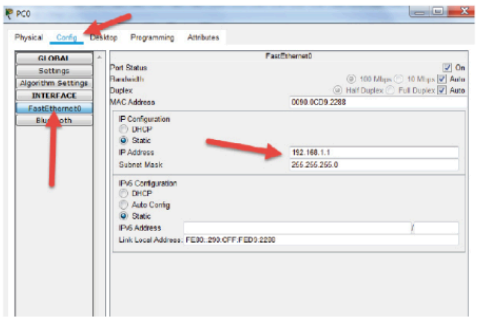
1. Connect a PC to a Router.
2. Configure Router to permit incoming Telnet sessions.
3. Test connection by telnetting from the PC to the Router.
4. View Telnet line on Router with “show line” command.



Lab Walkthrough:

Task 1:

Connect a generic PC to a Cisco router. Any model with an Ethernet interface will do fine. Then configure IP addresses on either side and ping across the link.




```
Press RETURN to get started!
Router>enable
Router#config t
Router(config)#interface g0/0
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#no shut
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#ping 192.168.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms
```

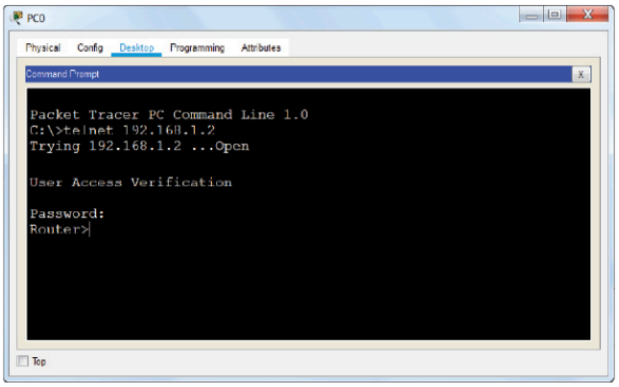
Task 2:

Configure the router to permit incoming Telnet sessions. Routers use virtual terminal lines for these; they are referred to as VTY, and there are usually 16, numbered 0 to 15.

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#line vty 0 15
Router(config-line)#transport input ?
all All protocols
none No protocols
ssh TCP/IP SSH protocol
telnet TCP/IP Telnet protocol
Router(config-line)#transport input telnet
Router(config-line)#password cisco
Router(config-line)#end
```

Task 3:

Test your connection by telnetting from the PC to the router. You should be challenged for the password. We don't have an enable password, so don't worry about going into that mode.



Task 4:

As an option, you can issue the 'show line' command on the router to see which Telnet line the incoming connection was allocated to.

```
Router#show line
Tty Line Typ Tx/Rx A Roty AccO AccI Uses Noise Overruns Int
* 0 0 CTY - - - - 0 0 0/0 -
1 1 AUX 9600/9600 - - - - 0 0 0/0 -
* 132 132 VTY - - - - 2 0 0/0 -
133 133 VTY - - - - 0 0 0/0 -
134 134 VTY - - - - 0 0 0/0 -
135 135 VTY - - - - 0 0 0/0 -
136 136 VTY - - - - 0 0 0/0 -
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144 144 VTY - - - - 0 0 0/0 -
145 145 VTY - - - - 0 0 0/0 -
146 146 VTY - - - - 0 0 0/0 -
147 147 VTY - - - - 0 0 0/0 -
Line(s) not in async mode -or- with no hardware support:
3-131
```

You can quit the session from the PC to the router by holding down the Ctrl + Shift + 6 keys at the same time (in your PC console session window), then letting go and pressing the X key.