Program 11

Aim: To understand the operation of TELNET by accessing the router in the server room from a PC in the IT office.

Topology , Procedure and Observation:

Lab 12

TELNET

To understand the operation of Telnet by accessing the router in server room from a PC in IT office.

Topology

PC
10-0-0-1

Router
10-0-0-2

Procedure:

1. Create the topology as above & configure the devices.
2. Commands in Router:

Router > enable.
Router # config terminal.
Router (config) # hostname R1
R1 (config) # enable secret 1234
" — " interface fastethernet 0/0
R1 (config-if) # ip address 10.0.0.2 255.0.0.0
no shut.

R1 (config-if) # line vty 0 3
login
*. login disabled on line 0-4, until 'Password' is set.
R1 (config-line) # password 4321
R1 (config-line) # exit.
R1 (config) # exit.

R1 # wr
Building configuration...
[OK]

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3. In PC command Prompt:

- First try pinging to see if devices are connected.

PC> telnet 10.0.0.2

Trying 10.0.0.2 -- Open.

User access verification.

Password : U321

Password : U321

R1 > enable

Password: 1234

R1 # show ip route.

C   10.0.0.0/8 is directly connected, Fast Ethernet 0/0.

R1 #.

Observation:

1. The admin in PC is able to run commands as seen in router CLI and see the results from PC.

2. Telnet allows users to establish a remote session with another device the router, over a TCP/IP network.

3. Using Telnet, we can access and control the remote devices CLI as if you were physically connected to it.

Screen Shots:
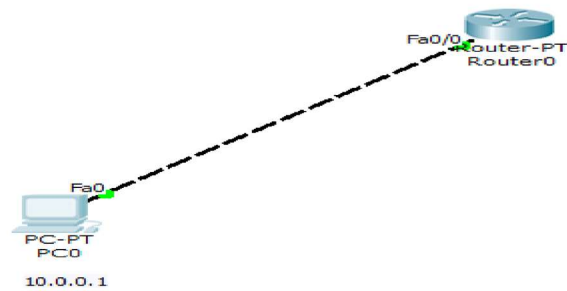

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Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open


User Access Verification

Password:
R1>enable
Password:
R1#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, FastEthernet0/0
R1#
```