

LAB 12

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

OBSERVATION:

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

Topology:

PC-PT
PC
10.0.0.2

Router-PT
Router 0
10.0.0.1

Procedure:

1. Create the above topology with a PC and Router.
2. Set gateway of PC to 10.0.0.1 and IP address of PC to 10.0.0.2.
3. Go to CLI mode of router and set the IP address of interface fa 0/0 to 10.0.0.1.
4. After setting up all the topology.
5. Go to router and enable config mode.
6. Type hostname 01, then type enable secret P1 (here P1 is password of your choice).
7. Then type IP address 10.0.0.1 & execute no shut command.
8. In interface mode itself execute line vty 0 5. command which creates 6 lines and next execute login and in next command password P0 is the password for login on router.
9. Go to command prompt of PC execute telnet 10.0.0.1 which will get you administration access of router. Enter password & access router from a connected end device.

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- Result

In PC CLI

PC > telnet 10.0.0.1

Trying 10.0.0.1... open

User Access Verification

Password: P0

V1 > enable

Password: p1

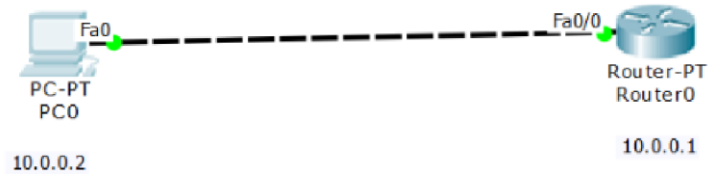
V1 #

Observation

Telnet: in teletype Network. It provides a command line interface to communicate with a server, in this case server.

Using TELNET, we are able to run command in the PC as would be run in a router CLI. If we type show ip route in the PC CLI, we will see the router's response to the command.

TOPOLOGY:



OUTPUT:

```
PC0
Physical Config Desktop Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.1

Pinging 10.0.0.1 with 32 bytes of data:

Reply from 10.0.0.1: bytes=32 time=1ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255
Reply from 10.0.0.1: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open

User Access Verification

Password:
% Password: timeout expired!

[Connection to 10.0.0.1 closed by foreign host]
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open

User Access Verification

Password:
Password:
Password:

[Connection to 10.0.0.1 closed by foreign host]
PC>telnet 10.0.0.1
Trying 10.0.0.1 ...Open

User Access Verification

Password:
rl>enable
Password:
rl#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
rl#
```