

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:

Ex-9

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

Topology:-

PC-IT
P10
10.0.0.2

Router-PT
R01
10.0.0.1

Procedure.

- Place a PC and a router
- Connect the PC to the router via fast ethernet interface with a copper cross-over cable.
- Assign the IP address to the PC 10.0.0.2 with gateway as 10.0.0.1

Router

```
hostname R1
enable secret 1
interface fastEthernet 0/0
ip address 10.0.0.1 255.0.0.0
no shut
line vty 0 5
```


login
password p0
exit

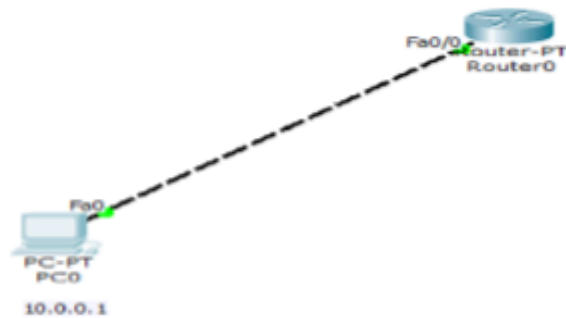
In Command prompt

Password for user authentication is p0
Password for enable is p1

Observations

- TELNET is a protocol for remote access
- It allows command-line communication on a network
- The PC is able to send the data to router and indicates that the gateway is available and connected

Screen Shots:



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#
```