

WEEK12

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

OBSERVATION:

LAB - 08 [IP]

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

Topology :-

The diagram shows a network topology. On the left, there is a circular icon representing a router, labeled "Router-PT" and "Rout 0". On the right, there is a rectangular icon representing a PC, labeled "PC-PT" and "PC 0". A dashed line connects the router to the PC, indicating a network connection.

Procedure :-

- Create the topology as shown above.
- connect the devices using copper crossover.
- configure the PC
IP address = 10.0.0.2
netmask = 10.0.0.1
- Go to CL 2 mode in Router 0

Router > on

Router # configure

Router(config) # hostname R1

R1(config) # enable secret pas

R1(config) # pass 1.

R1(config) # interface fa 0/0

" " # ip address 10.0.0.1
255.0.0.0

R1(config-if) # no shut

" " # line vty 0-5

" " # login

password ro

exit

ping out at in PC 0

We can successfully ping 10.0.0.1
from PC 0

PC > telnet 10.0.0.1

trying 10.0.0.1 open

User Access Verification

password: ro

R1 > on

password: ro

R1 # show ip route

C 10.0.0.0/8 is directly

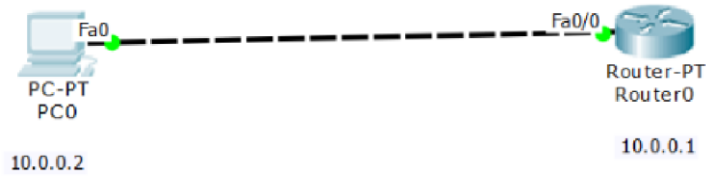
connected, fa 0

observations-

- we can observe that the admin in PC is able to run in router CLI and see the result from the PC
- So with the help of TELNET we can access the router in server room from a PC

~~AD~~
17/8/2023

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:
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#
```