

WEEK 12

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

OBSERVATION:

Telnet

classmate
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Page

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

Aim:- Understanding the operation of TELNET.

Topology:-

```
graph LR
    PC[PC-PT  
PC0  
10.0.0.2] --- Fa0_1[Fa0/0] --- Fa0_2[Fa0/0] --- Router[Router1  
10.0.0.1]
```

Procedure:-

Commands in Router

- Go to CLI
- enable
- Router # config t.
- Router (config) # hostname r1
- r1 (config) # enable secret p1
- r1 (config) # interface fastEthernet 0/0
- r1 (config) # ip address 10.0.0.1 255.0.0.0
- r1 (config-if) # no shut.
- r1 (config-if) # line vty 0 5 -- to allow virtual terminal access for 6 users
- r1 (config-line) # login
- r1 (config-line) # password p0
- r1 (config-line) # (Enter password here i.e. p1)
- r1 (config-line) # exit.
- r1 (config) # exit
- r1 # wr -- to save changes on router

Commands in PC.
In command prompt,
PC > ping 10.0.0.1
// ping results seen.

pinging 10.0.0.1 with 32 bytes of data.

PC > > telnet 10.0.0.1
Trying 10.0.0.1 --- Open.
User Access Verification

Password:

RI > enable

Password:

RI #

NOTE:-

Password for user access verification is po.
Password for enable is pl.
Accessing router CLI from PC.

Ex:-

RI # show ip route

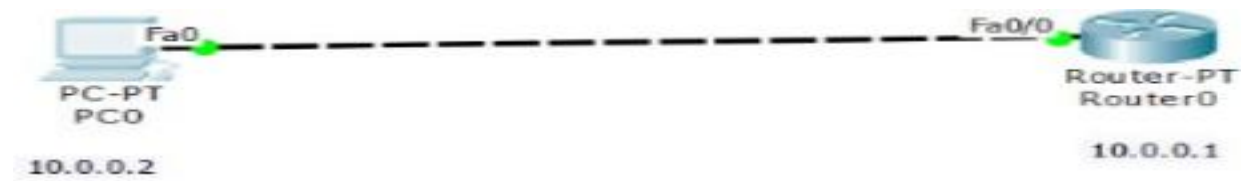
C 10.0.0.0/8 is directly connected, FastEthernet 0/0.

RI #

Observation:

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

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#
```

