

LAB 12

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

OBSERVATION:

Telnet

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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:-

PC0
10.0.0.2

Router1
10.0.0.1

procedure:-

- > go to CLI
- > enable
- Router # config t.
- Router(Config)# hostname S1
- S1(Config)# enable secret P1
- S1(Config)# interface fastEthernet 0/0
- S1(Config)# ip address 10.0.0.1 255.0.0.0
- S1(Config-if)# no shut.
- S1(Config-if)# line vty 0 5 --- to allow virtual terminal access for 6 users
- S1(Config-line)# login
- S1(Config-line)# password P0
- S1(Config-line)#
- S1(Config-line)# exit.
- S1# wr --- to save changes in router

commands in PC

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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:

or > enable

Password:

or #

Note:-

password for user access verification is P0

password for enable is P1

Accessing router CLI from PC

ex:-

or # show ip route.

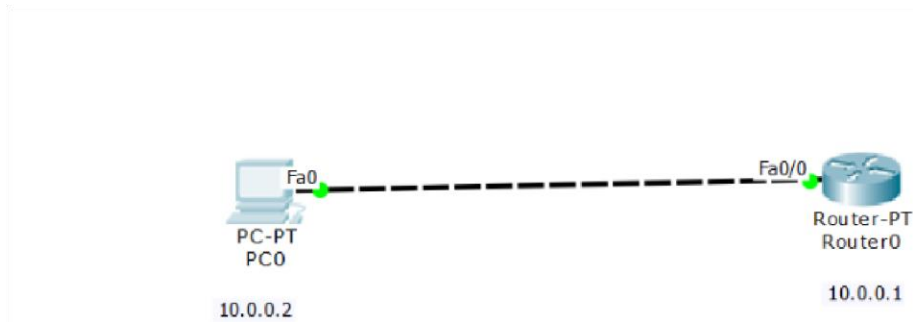
C 10.0.0.0/8 is directly connected fastethernet 0/0

or #

observation:-

The admin in PC is able to run commands as run in router CLI & 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:
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#
```