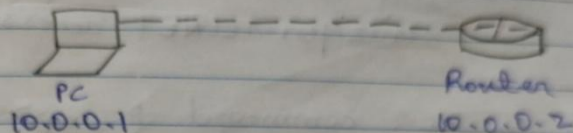


Expt. 10 – 18/12/2024

Expt. 10:

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

Topology:



Procedure:

1. Create a topology as given above & configure the devices.

2. Commands in Router:

Router>enable

Router# config terminal

Router(config)# hostname R1

enable secret 1234

interface fastethernet 0/0

Router(config-if)# ip address 10.0.0.2 255.0.0.0

no shut

line vty 0 3

Router(config-line)# login

*login disabled on line 194, until 'password' is set

R1(config-line)# password 4321

R1(config-line)# exit

→ user access verification password

R1 (config) # exit

R1 # who

Building configuration ...
[OK]

Note: vty 0 3 : First for virtual terminal
lines for TELNET access

3] In PC: command Prompt

- First try pinging to see if the devices are
connected

PC > telnet 10.0.0.2

Trying 10.0.0.2.... open

User Access Verification

Password: 4321

Password: 4321

R1 > enable

Password: 1234

R1 # show ip route

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

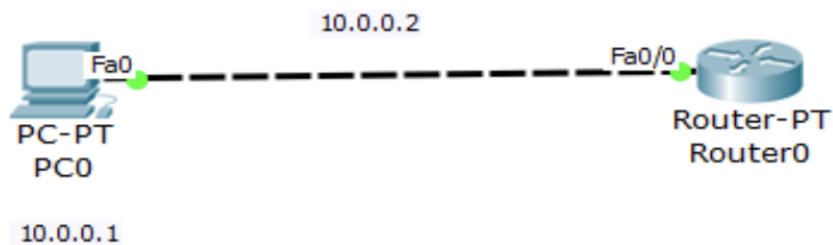
R1 #

Observations:

1] The admin in PC is able to run commands as seen in route cli & see the results from PC

2] Telnet allows users to establish a remote session with another device like routers, even a Telnet network

3] Using Telnet, we can access and control the remote device's CLI as if you were physically connected to it



```
Router0
Physical Config CLI
IOS Command Line Interface
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

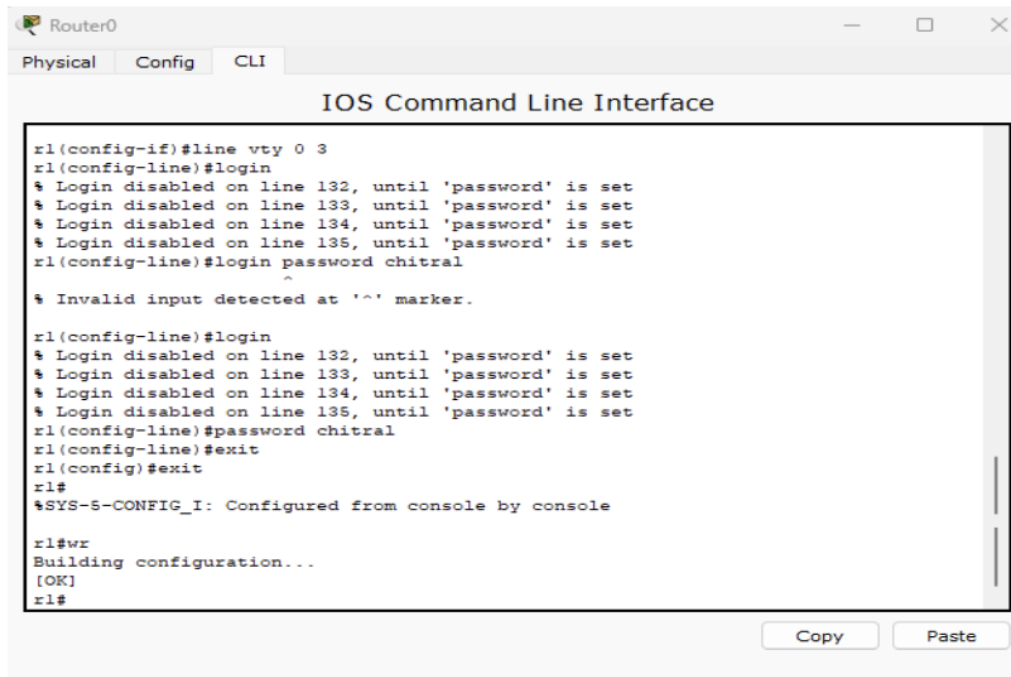
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: no

Press RETURN to get started!

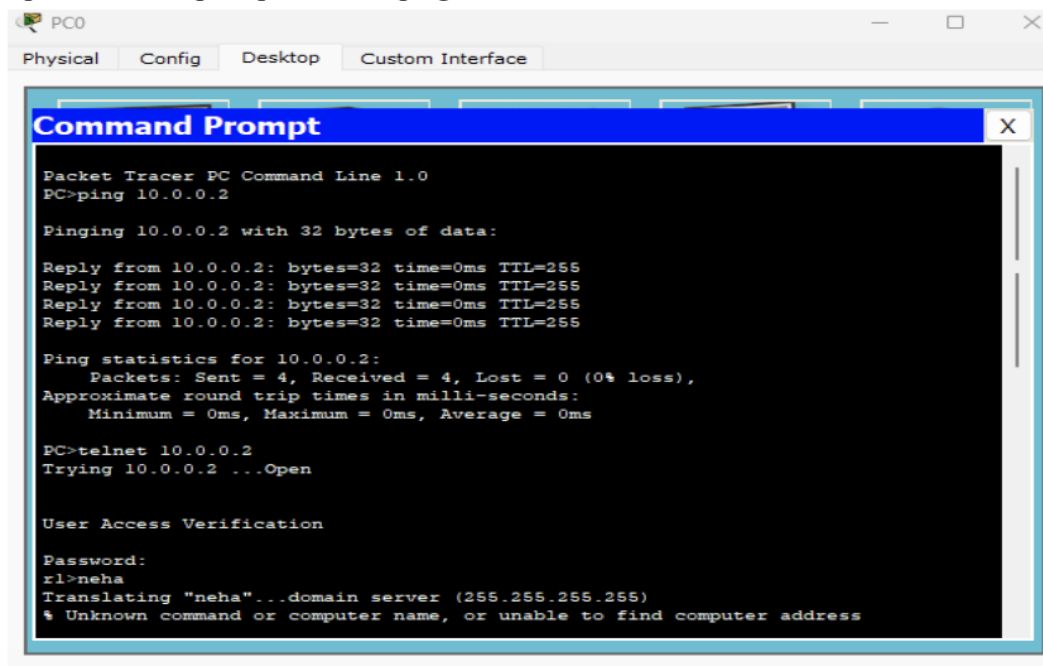
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname r1
r1(config)#enable secret neha
r1(config)#interface fastethernet 0/0
r1(config-if)#ip address 10.0.0.2 255.0.0.0
r1(config-if)#no shut

r1(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/0, changed state to up
```

Copy Paste



Open command prompt of PC0: ping 10.0.0.2



PC0

Physical Config Desktop Custom Interface

Command Prompt

```
rl>
rl>exit

[Connection to 10.0.0.2 closed by foreign host]
PC>telnet 10.0.0.2
Trying 10.0.0.2 ...Open

User Access Verification

Password:
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#
```