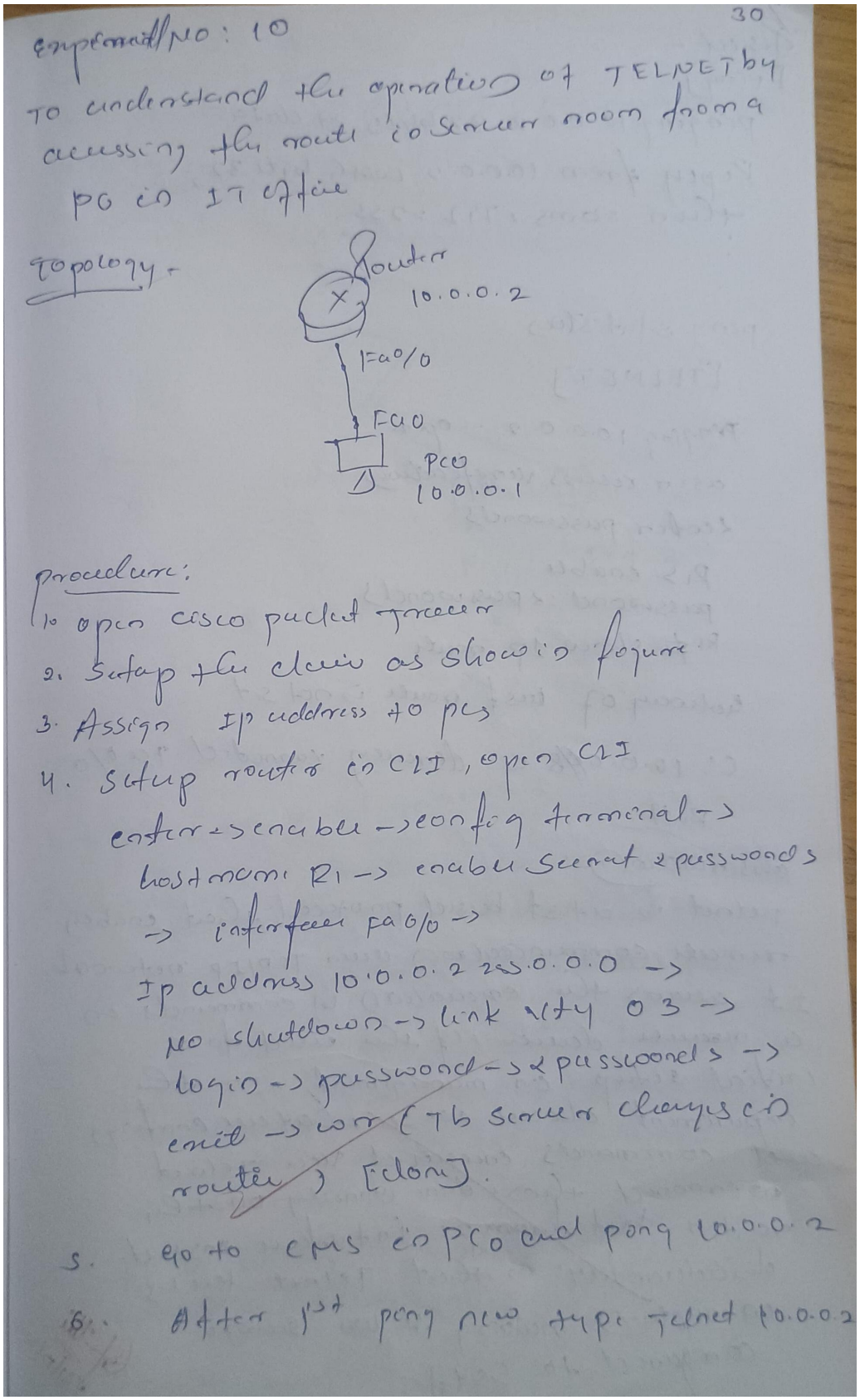
18|12|2024 Experiment 10- To understand the operation of TELNET by accessing the router in server room from a PC in IT office.

Observation Book:



Experiment NO: 10 30

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

Topology -

Procedure:

1. Open cisco packet tracer
2. Setup the devices as shown in figure
3. Assign Ip address to pcs
4. Setup router in CLI, open CLI
   enter -> enable -> config terminal ->
   hostname R1 -> enable secret <password>
   -> interface fa 0/0 ->
   Ip address 10.0.0.2 255.0.0.0 ->
   No shutdown -> line vty 0 3 ->
   login -> password -> <password> ->
   exit -> exit (To server changes in
   router) [done].
5. Go to CMS in PC0 and ping 10.0.0.2
6. After 1st ping now type Telnet 10.0.0.2

Result -

[ping]

pinging 10.0.0.2 32 bytes of data.

Reply from 10.0.0.2 with bytes 32,
time =0ms, TTL =255.

:

ping statistics

[TELNET]

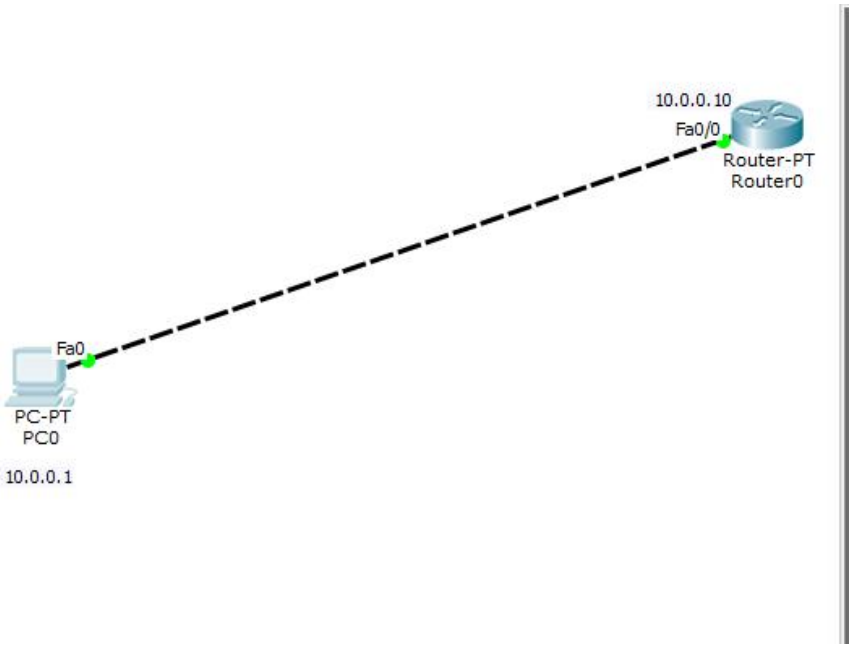
Pinging 10.0.0.2 -- open
asa cisco configuration
Enter passwords

R1> enable
password: <password>
R1# show ip route
Gateway of last route is not set
C: 10.0.0.0/8 is directly connected Fa 0/0
R1#

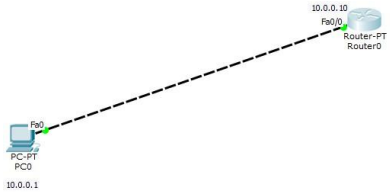
observation:

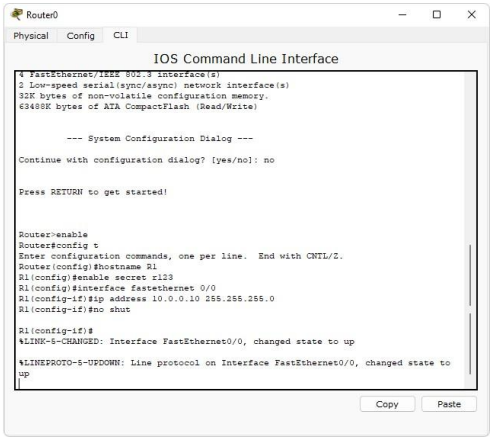
Telnet is a client based protocol that enables remote communication over TCP/IP network. It allows the execution of commands on a remote device, often used for initial setup or management, In the experiment above we set that we configs and commands executed via Telnet connected those devices directly on the router but prompt interface unstable disadvantages is that Telnet lacks encryption making it less secure compared to SSH.

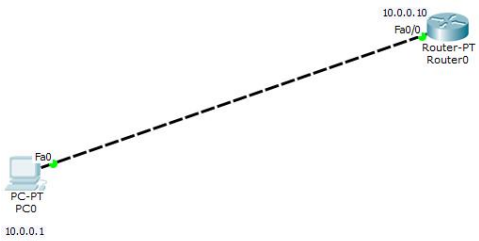
Topology:

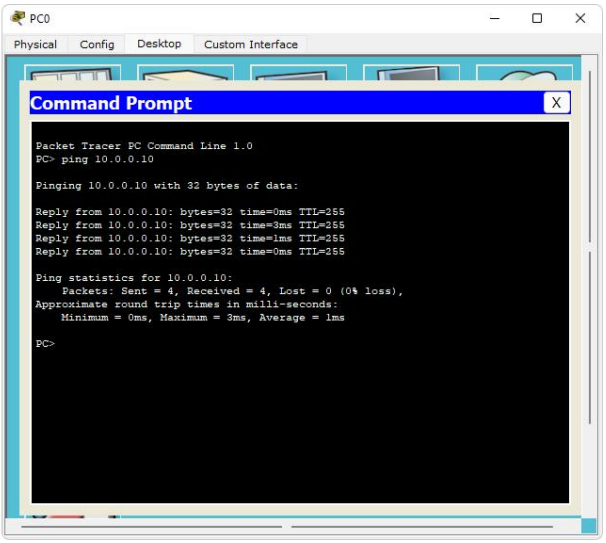


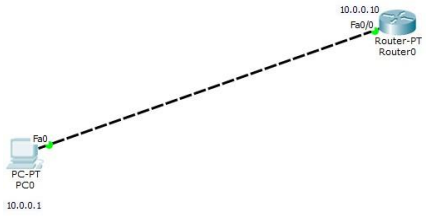
Output:

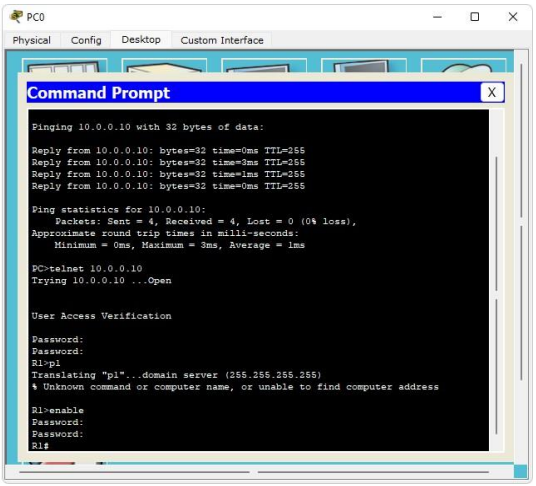





10.0.0.10
Fa0/0
Router-PT
Router0
Fa0
PC-PT
PC0
10.0.0.1


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC> ping 10.0.0.10
Pinging 10.0.0.10 with 32 bytes of data:
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=3ms TTL=255
Reply from 10.0.0.10: bytes=32 time=1ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
PC>


10.0.0.10
Fa0/0
Router-PT
Router0
Fa0
PC-PT
PC0
10.0.0.1


PC0
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Pinging 10.0.0.10 with 32 bytes of data:
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Reply from 10.0.0.10: bytes=32 time=1ms TTL=255
Reply from 10.0.0.10: bytes=32 time=0ms TTL=255
Ping statistics for 10.0.0.10:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
PC>telnet 10.0.0.10
Trying 10.0.0.10 ...Open
User Access Verification
Password:
Password:
R1>p1
Translating "p1"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address
R1>enable
Password:
Password:
R1#