

## WEEK 12

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

### OBSERVATION:

classmate  
Date \_\_\_\_\_  
Page \_\_\_\_\_

10/8/23

### LAB - 12

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

**TOPOLOGY -**

IP PC-PT1: 10.0.0.1  
IP PC-PT2: 10.0.0.2  
IP PC-PT3: 10.0.0.3  
IP PC-PT4: 10.0.0.4  
IP PC-PT5: 10.0.0.5  
IP PC-PT6: 10.0.0.6  
IP PC-PT7: 10.0.0.7  
IP PC-PT8: 10.0.0.8  
IP PC-PT9: 10.0.0.9  
IP PC-PT10: 10.0.0.10  
IP PC-PT11: 10.0.0.11  
IP PC-PT12: 10.0.0.12  
IP PC-PT13: 10.0.0.13  
IP PC-PT14: 10.0.0.14  
IP PC-PT15: 10.0.0.15  
IP PC-PT16: 10.0.0.16  
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IP PC-PT19: 10.0.0.19  
IP PC-PT20: 10.0.0.20  
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IP PC-PT22: 10.0.0.22  
IP PC-PT23: 10.0.0.23  
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IP PC-PT27: 10.0.0.27  
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IP PC-PT30: 10.0.0.30  
IP PC-PT31: 10.0.0.31  
IP PC-PT32: 10.0.0.32  
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IP PC-PT70: 10.0.0.70  
IP PC-PT71: 10.0.0.71  
IP PC-PT72: 10.0.0.72  
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IP PC-PT74: 10.0.0.74  
IP PC-PT75: 10.0.0.75  
IP PC-PT76: 10.0.0.76  
IP PC-PT77: 10.0.0.77  
IP PC-PT78: 10.0.0.78  
IP PC-PT79: 10.0.0.79  
IP PC-PT80: 10.0.0.80  
IP PC-PT81: 10.0.0.81  
IP PC-PT82: 10.0.0.82  
IP PC-PT83: 10.0.0.83  
IP PC-PT84: 10.0.0.84  
IP PC-PT85: 10.0.0.85  
IP PC-PT86: 10.0.0.86  
IP PC-PT87: 10.0.0.87  
IP PC-PT88: 10.0.0.88  
IP PC-PT89: 10.0.0.89  
IP PC-PT90: 10.0.0.90  
IP PC-PT91: 10.0.0.91  
IP PC-PT92: 10.0.0.92  
IP PC-PT93: 10.0.0.93  
IP PC-PT94: 10.0.0.94  
IP PC-PT95: 10.0.0.95  
IP PC-PT96: 10.0.0.96  
IP PC-PT97: 10.0.0.97  
IP PC-PT98: 10.0.0.98  
IP PC-PT99: 10.0.0.99  
IP PC-PT100: 10.0.0.100

**PROCEDURE -**

- Create a topology as shown above.
- Configure the IP address & gateway for PC.
- Configure the router by executing the following commands:

Step 1: enable  
Step 2: configT  
Step 3: hostname r1  
Step 4: enable secret p1  
Step 5: interface fastethernet 0/0  
Step 6: ip address 10.0.0.1 255.0.0.0  
Step 7: No shut  
Step 8: line vty 0 5  
Step 9: login  
Step 10: password po  
Step 11: exit; exit  
Step 12: wr

- Ping message to router  
Password for User Access Verification is p0.  
password for enable is p1.

Accessing router c1 from PC. ~~broader at~~  
show ip route.

### PING OUTPUT-

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 = 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  
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 milliseconds:  
Minimum = 0ms, Maximum = 0ms, Average = 0ms.

PC > telnet 10.0.0.1

Typing 10.0.0.1 ... open

User Access Verification

Password: P0

#1 > enable

Password: P1:

# show ip route

C 10.0.0.0/8 is directly connected, Fast Ethernet 0/0.

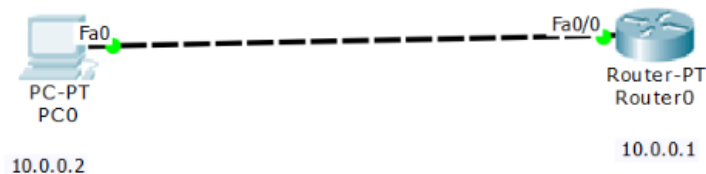


### OBSERVATION -

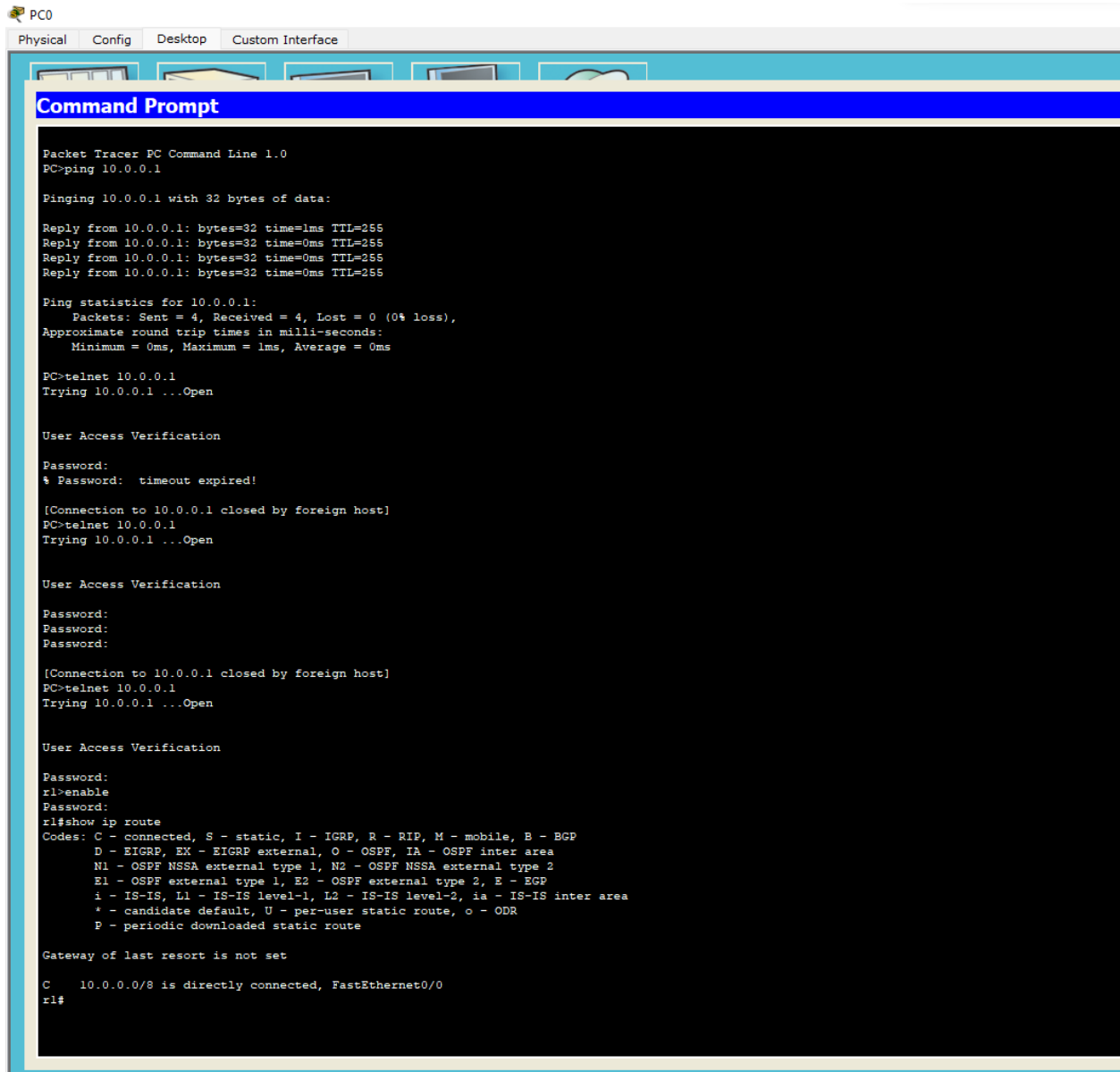
- TELNET stands for Teletype Network. It is a type of protocol that enables one computer to connect to the local computer.
- It is used as a standard TCP/IP protocol for virtual terminal service provided by ISO.
- During TELNET operation, whatever is being performed on the remote computer will be displayed by the local computer. Telnet operates on a client/server principle.

AD  
18/8/2023

### 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:
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#
```