

Aim-12

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

Topology:

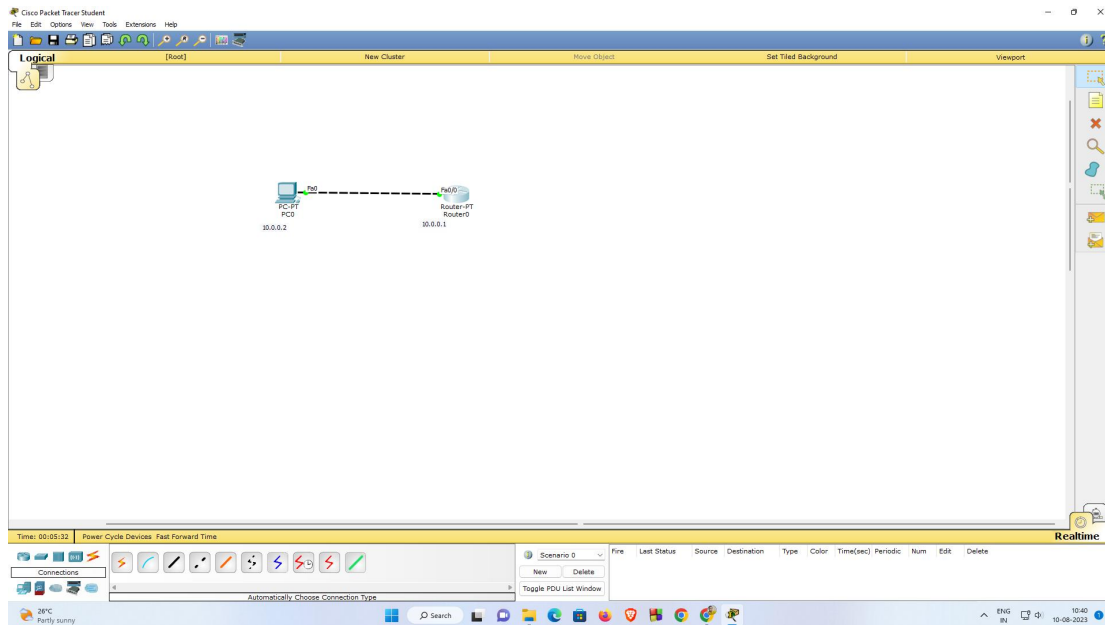


Fig 1: Topology

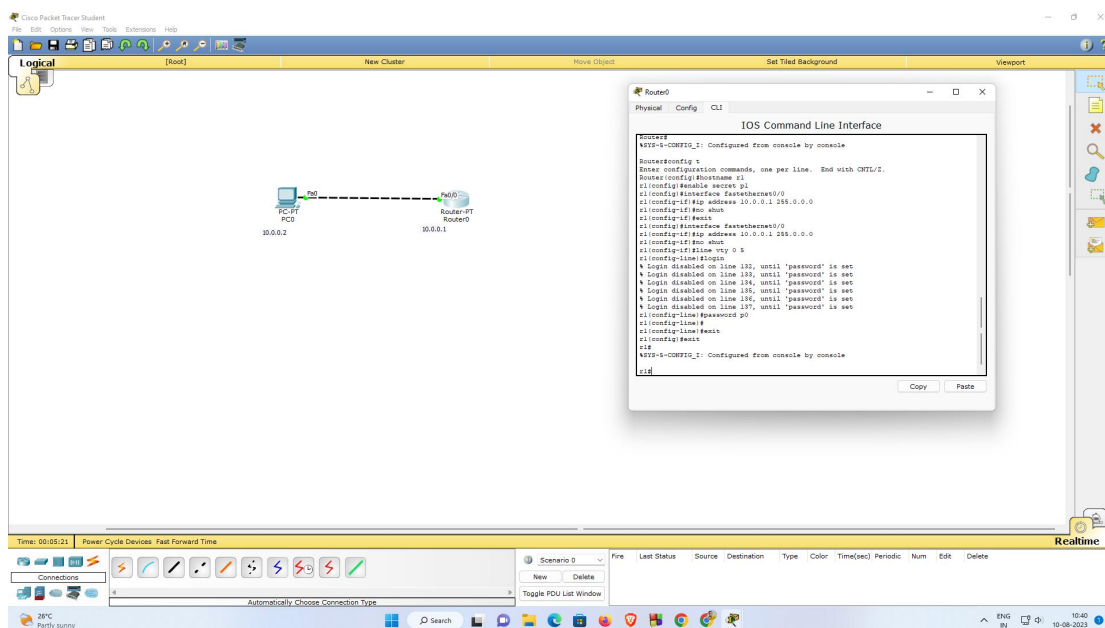


Fig 2: Router0 Configuration

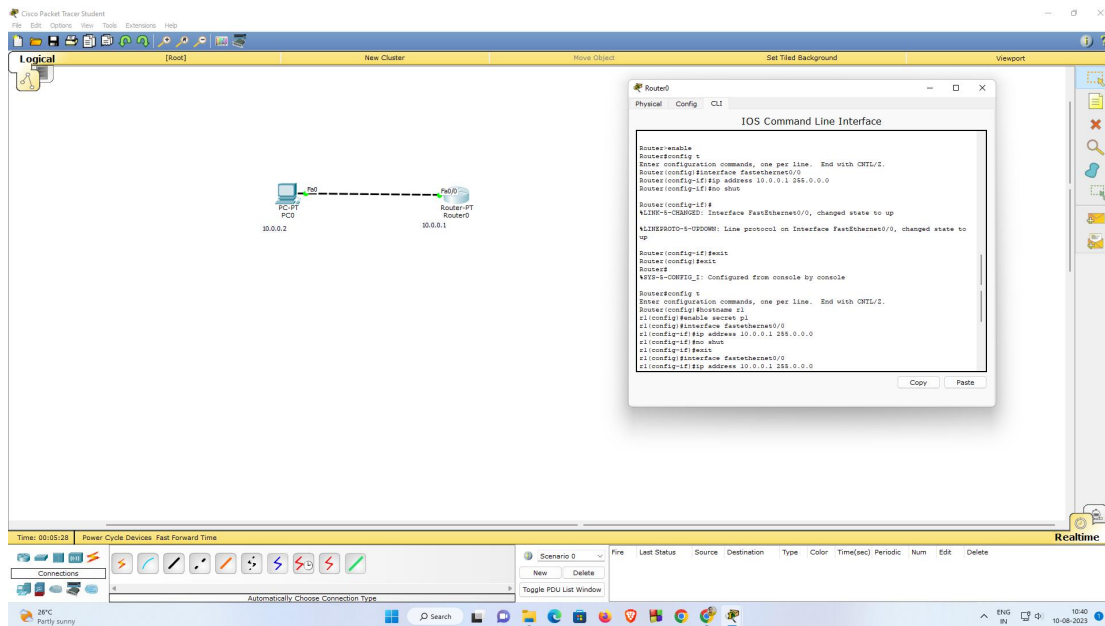
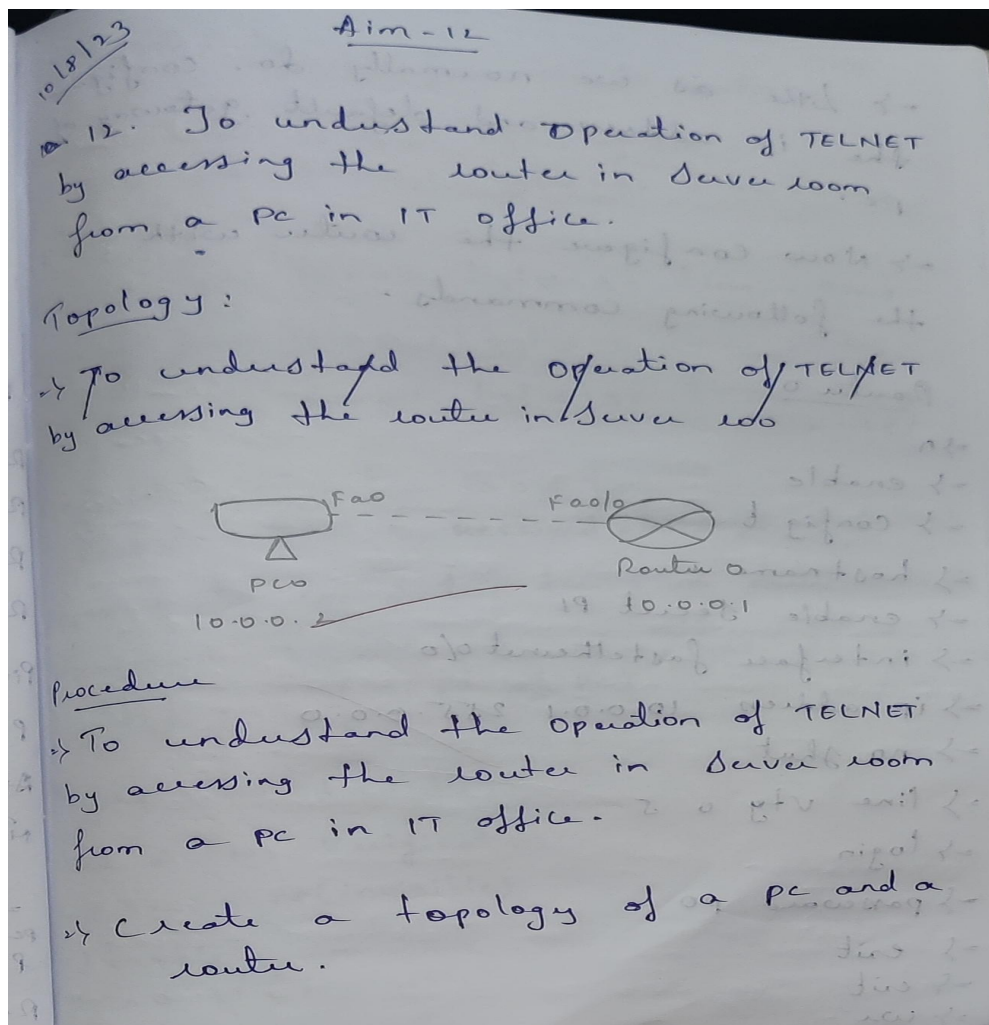


Fig 3: Router0 Configuration

Procedure and Observation:



=> Like as we normally do, configure the ip address, and default gateway of pc.

=> Now configure the router with the following commands.

Router 0

=> n

=> enable

=> config t

=> hostname r1

=> enable secret P1

=> interface fastethernet 0/0

=> ip address 10.0.0.1 ~~255.0.0.0~~

=> no shut

=> line vty 0 5

=> login

=> password po

=> exit

=> exit

=> wr

figure of output
PC > ping 10.0.0.1
Pinging 10.0.0.1 with 32 bytes of data:
Pinging from 10.0.0.1: bytes=32 time=0ms

TTL=255

Pinging from 10.0.0.1: bytes=32 time=0ms
TTL=255

Pinging from 10.0.0.1: bytes=32 time=0ms
TTL=255

Pinging 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=0ms, Average=0ms
(Command prompt of PC)

PC > telnet 10.0.0.1

Trying 10.0.0.1 Open

User Access Verification

Password: p0 (invisible)

enable

Password p1 (invisible)

show ip route

Codes: C - Connected, S = Static, I = IGRP, R = RIP, 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, L1 - LS-LS level-1, L2 - LS-LS level-2, ia - LS-LS inter area, * - Candidate default, U - per - User static route, O - ODR, P - periodic download static route. Gateway of last resort is not set.
 C 10.0.0.0/8 is directly connected, FastEthernet0/0.

Observation

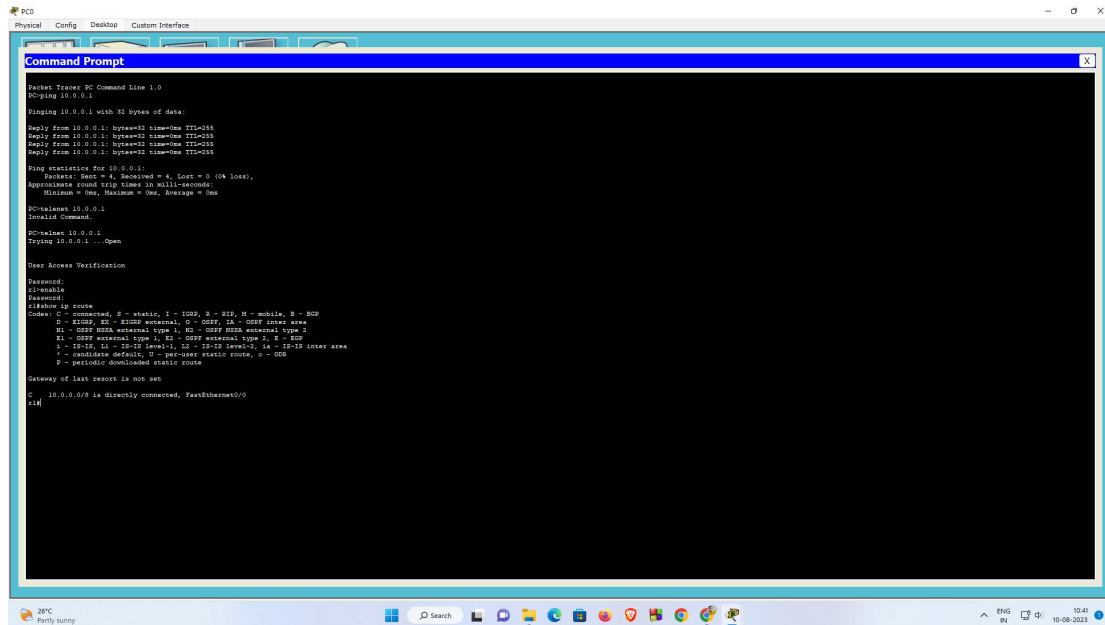
⇒ Tdnet stands for Teletype Network, but it can also be used as a verb; 'to

Telnet is to establish a connection using the telnet protocol.

Telnet is a simple, test-based network protocol that is used for accessing remote computers over TCP/IP networks like the Internet.

11/9/2023

Output:



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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
Connected Command
PC>telnet 10.0.0.1
Trying 10.0.0.1 ... Open

User Access Verification
Password:
#enable
Password:
#show ip route
Route:
C - connected, S - static, I - IGMP, B - BGP, M - mobile, R - RIP
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, S - ISIS
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
#
```

Fig 4: ping response and trying to access the device remotely