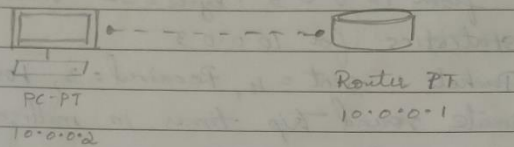


Experiment 10:

TELNET

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

Topology:



Procedure:

- Create a topology as shown above
- configure the router by executing the following commands:
 - > enable
 - > config t
 - > hostname ~~PT~~ R1
 - > enable secret p1
 - > interface fa 0/0
 - > ip address 10.0.0.1 255.0.0.0
 - > no shut
 - > line vty 0 5
 - > login
 - > password p0
 - > exit.

NET by
on a PC

Ping message to Router

→ > 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

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

uses Access verification

password: p0

#1> enable

password: p1

~~#1# show ip route~~

#1# show ip route

C 10.0.0.0/8 is directly connected, FastEthernet0/0

Observation:

10/10

→ 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.

→ TELNET operates on a client/server principle.

Topology and output screenshots:

Cisco Packet Tracer Student - C:\Users\sarja\Cisco Packet Tracer 6.2\save\stolnet.pkt

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Simulation Panel

Event List

Vis.	Time(sec)	Last De	At Dev	Type	Info
	36.934	--	Router...	CDP	
	36.935	Router0	PC0	CDP	
	96.934	--	Router...	CDP	
	96.935	Router0	PC0	CDP	
	156.934	--	Router...	CDP	

Reset Simulation ☒ Constant Delay Captured to: 156.934 s

Play Controls

Back Auto Capture / Play Capture / Forward

Event List Filters - Visible Events

ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTB, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NBP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters Show All/None

Time: 00:03:00.519 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Scenario 0

New Delete

Toggle PDU List Window

Event List Simulation

Fire Last Status Source Destination Type Color Time(s) Period Num Edit Delete

Successful PC0 Router0 IC... 0.000 N 0 (ed... (delete)

23°C Mostly cloudy

Search

ENG IN

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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=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=1ms 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:
#enable
Password:
#show ip route

Codes: C - connected, S - static, I - IGMP, E - 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, IA - IS-IS level-1, IA - 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
#
```

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