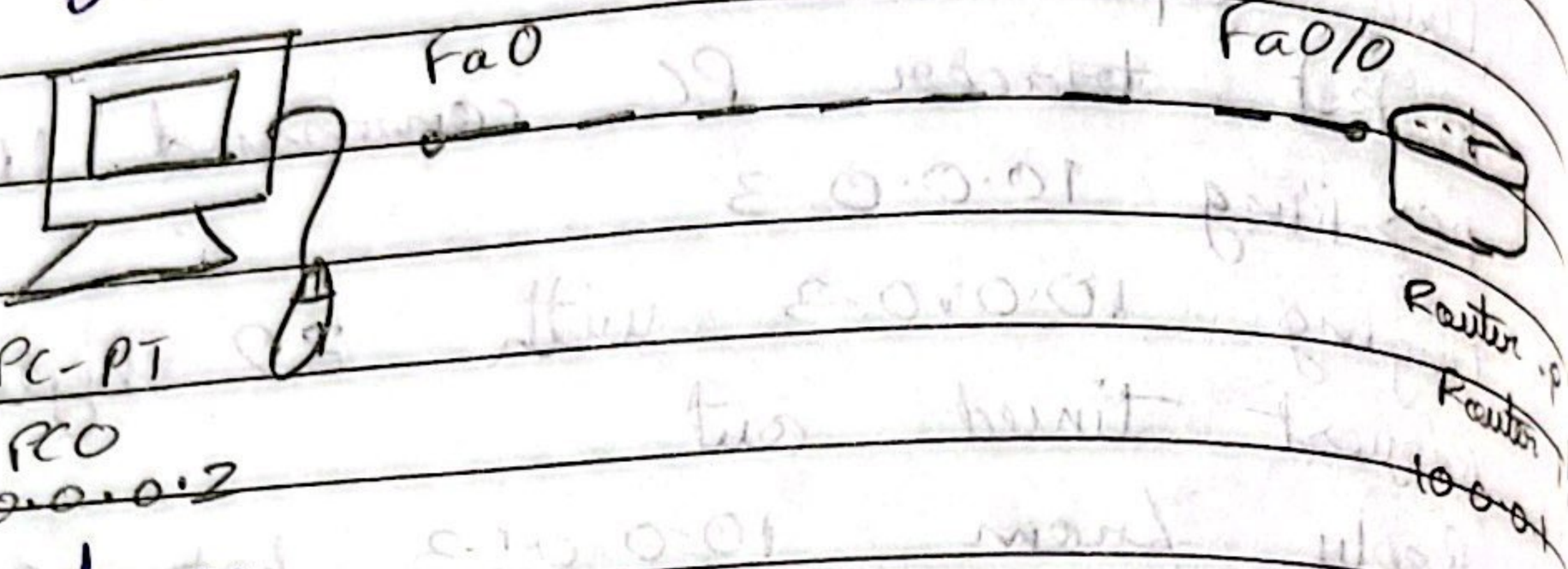
Lab - 12

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

Topology



Procedure

- Create a topology as shown above
- Configure IP address and gateway for
- Configure router by executing following commands

1) enable
2) config T
3) host name r1
4) enable secret P1
5) interface fastEthernet 0/0
6) IP address 10.0.0.1 255.0.0.0
7) No shut
8) line vty 0 5
9) login
10) password p0
11) Exit; Exit
12) copy

Date
Page

ping message to router
password for user Pass verification is p0
Password for enable is P1
Accessing router CLI from PC
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 millisecond
Minimum = 0ms, Maximum = 0ms Average = 0ms

PC > telnet 10.0.0.1
Typing 10.0.0.1 .... open
User acus verification
Password : P0
P1 > enable
Password > P1
r1 # show IP route

c 10.0.0.0/8 is directly connected,
FastEthernet 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 being performed on the remote computer will be displayed by the local computer.

11/9/2022

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

Simulation Panel

Event List

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

Reset Simulation | Constant Delay | Captured to 156.934

Play Controls

Back | Auto Capture / Play | Capture / Forward

Event List Filters - Visible Events

ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, DTP, EIGRP, EIGRPv6, FTP, H.32
HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, LACP, NDP, NETFLO
NTP, OSPF, OSPFv6, PAgP, POP3, RADIUS, RIP, RIPng, RTP, SCCP, SMTP, SNMP, S
STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, VTP

Edit Filters | Show All/None

Command Prompt

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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=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:
r1>enable
Password:
r1#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
r1#
```