LAB-8

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

Devices used:
PC, router

Topology:


```
PC 0 - - - - - - - - -    (X)
10.0.0.2                  router
                          10.0.0.1
```
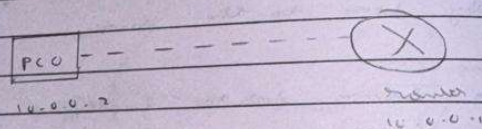
Procedure
(i) Make the Topology as shown above

(ii) commands in router:
> enable
config terminal
hostname R1
enable secret P1
interface fastethernet 0/0
ip address 10.0.0.1   255.0.0.0
no shut

line vty 0 =
login

password p0
exit
exit

wr - to save changes in router

(iii) commands in PC
ping 10.0.0.1
(0% loss)

(Password for user level verification is p0)
(Password for enable is P1)

(iv) Accessing router CLI from PC

user access verification
Password:
>> enable
Password:
># show ip route

codes: C - - -
        D - - -
        N1 - - -
        E1 - - -
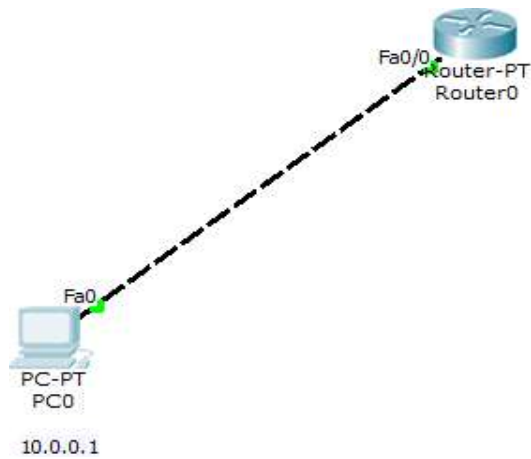   i - - -

other
        * - - - -
        P - - - -

Gateway of last resort is not set

observation:
The admin in PC is able to run commands at
run in router CLI and see results from PC.

Fa0/0 Router-PT
Router0

Fa0

PC-PT
PC0

10.0.0.1

```
Router>enable
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#enable secret vara2345
R1(config)#interface fastethernet 0/0
R1(config-if)#ip address 10.0.0.2 255.0.0.0
R1(config-if)#no shut

R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up

R1(config-if)#line vty 0 3
R1(config-line)#login
% Login disabled on line 132, until 'password' is set
% Login disabled on line 133, until 'password' is set
% Login disabled on line 134, until 'password' is set
% Login disabled on line 135, until 'password' is set
R1(config-line)#password vara2341
R1(config-line)#exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#wr
Building configuration...
[OK]
R1#
```

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255
Reply from 10.0.0.2: bytes=32 time=0ms TTL=255

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>telnet 10.0.0.2
Trying 10.0.0.2 ...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#
```