

WEEK 12

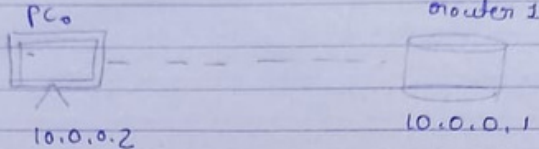
To understand the operation of TELNET by accessing the router in server room from a PC in IT office.

OBSERVATION:

10.12.13 TELNET

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

Topology :



Procedure

Configure topology as shown, use copper cross over wire. IP address of PC and gateway and router configuration as normal

In router CLI

```
router > enable
router # config t
router (config) # host name r1
r1 (config) # enable secret p1
r1 (config) # interface FastEthernet 0/0
r1 (config) # ip address 10.0.0.1 255.0.0.0
r1 (config-if) # no shut
r1 (config-if) # line vty 0 5
r1 (config-line) # login
% login disabled on line 132, until password is set
% login disabled on line 133 until password is set
r1 (config-line) # password po
r1 (config-line) # exit
r1 # wr
Building Configuration
[ok]
r1 #
```

Result in PC 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 = 0 ms TTL = 255

Ping statistics for 10.0.0.1
packets sent = 4, received = 4, lost 0% (0% loss)
approximate trip time in milliseconds
minimum = 0 ms, maximum = 0 ms Average = 0 ms

PC > telnet 10.0.0.1

User access verification.

Password: (Type P0)

on > enable

Password: (Type P1)

on1 # show ip route

Codes:

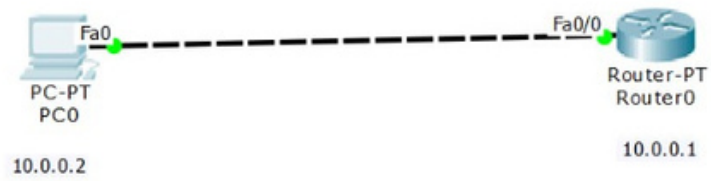
gateway of cost restart is not set
10.0.0.1 is directly connected, Fast Ethernet 0/0

Observation:

- 1) Telnet is used by terminal emulation program that allow you to log into remote host
- 2) we logged into (0.0.0.1) through 10.0.0.2 P1 device
- 3) Password when typed isn't visible

N/A
29/8/2023

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#
```