

WEEK 12

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

OBSERVATION:

Date: 10/1/23

Lab 12

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

Topology:

```

graph LR
    PC[PC-PT  
10.0.0.2] --- Fa0_0[Fa0/0] --- Router[Router-1  
10.0.0.1]
  
```

Procedure

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

Step 1: Enable

Step 2: Config

Step 3: Hostname r1

Step 4: enable secret P1

Step 5: interface FastEthernet 0/0

Step 6: ip address 10.0.0.1 255.0.0.0

Step 7: No shutdown

Step 8: line vty 0 5

Step 9: login

Step 10:

Step 11:

Step 12: k

• Ping msg

PC> ping

pinging

Reply to

Reply to

Reply to

Reply to

Pinging To

PC> se

Typing

User

Passw

17

Proce

r1#

C

Step 10: password #0

Step 11: exit ; Exit

Step 12: Wv

• Ping msg to router

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 Stats: 10

Packets sent: 4, Received=4, Lost=0 (0% loss)

Approx. Round Trip Time in ms

Min: 0, Max=0ms, Avg=0ms

PC> Telnet 10.0.0.1

Typing 10.0.0.1...OK

User Access Verification

Password: #0

17 trouble

Press any key

Ctrl+Shift show ip route

[10.0.0.0/24 is directly connected, 10.0.0.1

0/0

Observation

- TELNET stands for TeleTYpe Network. It is a type of protocol that enables computer to connect to local computer.
- It is under a Standard TCP/IP protocol for a virtual terminal via provided by ISO.

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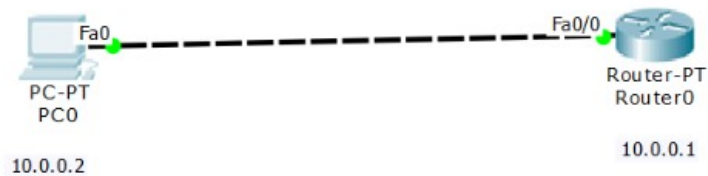


New Cluster

Move Object

Set Tiled Background

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#
```