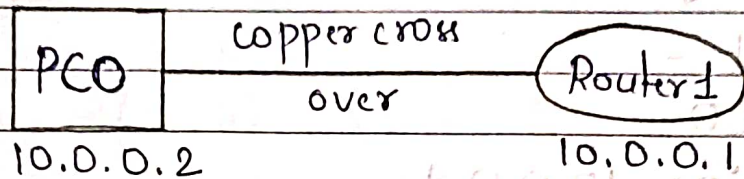


10/8/23

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

Topology -



Procedure -

1) Configure topology as above. Use copper crossover wire to connect both. Configure IP address and gateway and the router generally:

2) In Router CLI:

Router> enable

Router# config t

Router (config)# hostname r1

r1(config)# enable secret pl

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

! login disabled on line 134, until 'password' is set

! login disabled on line 135, until 'password' is set

! login disabled on line 136, until 'password' is set



1. login disabled on line 137, until 'password' is set

```
xl (config-line) # password po
```

```
xl (config-line) # exit
```

```
xl # wt
```

Building configuration

Result -

In PC0

```
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=21 ms TTL=255

Reply from 10.0.0.1: bytes=32 time=13 ms TTL=255

Reply from 10.0.0.1: bytes=32 time=6 ms TTL=255

Reply from 10.0.0.1: bytes=32 time=0 ms TTL=255

Ping statistics from 10.0.0.1:

Packets: Sent=4, Received=4, Lost=0

Approximate round trip time in milliseconds:

Minimum=6 ms, Maximum=21 ms, Average=12 ms

Observation:

1) Wireless local area network VLAN is a group of allocated computers or other devices that form a network based on radio transmission rather than wired connections.

2) After the WLAN is setup, the wired connection appears in the topology from the access point.



```

PC> telnet 10.0.0.1
Trying 10.0.0.1...open
User access verification
Password: (Typed P0)
rl> enable
Password: (Typed P1)
rl# show ip route
Code:
gateway of last resort is not set
C 10.0.0.0/8 is directly connected,
fastethernet 0/0

```

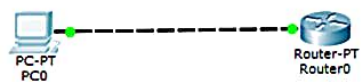
rl#

### Observation -

- 1) TELNET is used by terminal emulation programs that allow you to log into a remote host.
- 2) we logged into 10.0.0.1 IP device through 10.0.0.2 IP device.
- 3) The password typed is not visible.

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PC0



Physical

Config

Desktop

Custom Interface

## Command Prompt



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:

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#