## LAB-3

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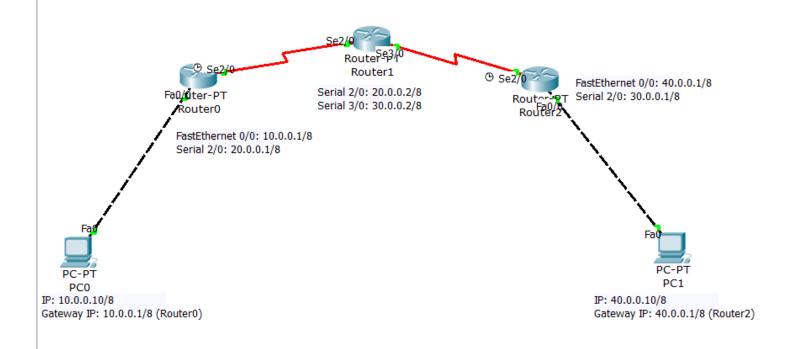
Naman Agaswal 1Bm18 CSO57 8/10/2020

Sevial 2/0: 20.0.0.2/8 Sevial 3/0: 30.0.0.2/8

Se 03/0 Fast Etheunet 0/0: Fast Etherenet 0/0: 40.0.0.18/8 Se 2/0 Sevial 2/0: 10.0.0.1/8 serial 2/0: 30.0.0.1/8 20.0.0.1/8 Fa 0/0 1 Se 210 50 70 0/0 Router 2 FA 010 IP: 10.0.0.10/8 IP: 40.0.0.10/8 Gateway IP: 10.0.0.1/8 Gateray IP: 40.0.0.1/8 (Routeno) (Router 2)

# Routen can only know about
the devices directly connected to it.
Unless you use ip wonte command to
make it aware of different devices.

D. Agarwal



## Router0

Router> enable

Router#show ip route

C 10.0.0.0/8 is directly connected, FastEthernet0/0

C 20.0.0.0/8 is directly connected, Serial2/0

Router# config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)# ip route 30.0.0.0 255.0.0.0 20.0.0.2

Router(config)# ip route 40.0.0.0 255.0.0.0 20.0.0.2

Router(config)# exit

Router# show ip route

C 10.0.0.0/8 is directly connected, FastEthernet0/0

C 20.0.0.0/8 is directly connected, Serial2/0

S 30.0.0.0/8 [1/0] via 20.0.0.2

S 40.0.0.0/8 [1/0] via 20.0.0.2

## Router2

Router> enable

Router# show ip route

C 30.0.0.0/8 is directly connected, Serial2/0

C 40.0.0.0/8 is directly connected, FastEthernet0/0

Router# config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)# ip route 20.0.0.0 255.0.0.0 30.0.0.2

Router(config)# ip route 10.0.0.0 255.0.0.0 30.0.0.2

Router(config)# exit

Router# show ip route

S 10.0.0.0/8 [1/0] via 30.0.0.2

S 20.0.0.0/8 [1/0] via 30.0.0.2

C 30.0.0.0/8 is directly connected, Serial2/0

C 40.0.0.0/8 is directly connected, FastEthernet0/0

## Router1

Router> enable

Router# show ip route

C 20.0.0.0/8 is directly connected, Serial2/0

C 30.0.0.0/8 is directly connected, Serial3/0

Router# config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)# ip route 10.0.0.0 255.0.0.0 20.0.0.1

Router(config)# ip route 40.0.0.0 255.0.0.0 30.0.0.1

Router(config)# exit

Router# show ip route

S 10.0.0.0/8 [1/0] via 20.0.0.1

C 20.0.0.0/8 is directly connected, Serial2/0

C 30.0.0.0/8 is directly connected, Serial3/0

S 40.0.0.0/8 [1/0] via 30.0.0.1

Pc0 -> Desktop-> command prompt

PC> ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Request timed out.

Reply from 40.0.0.10: bytes=32 time=6ms TTL=125

Reply from 40.0.0.10: bytes=32 time=3ms TTL=125

Reply from 40.0.0.10: bytes=32 time=9ms TTL=125

Ping statistics for 40.0.0.10:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 3ms, Maximum = 9ms, Average = 6ms

