

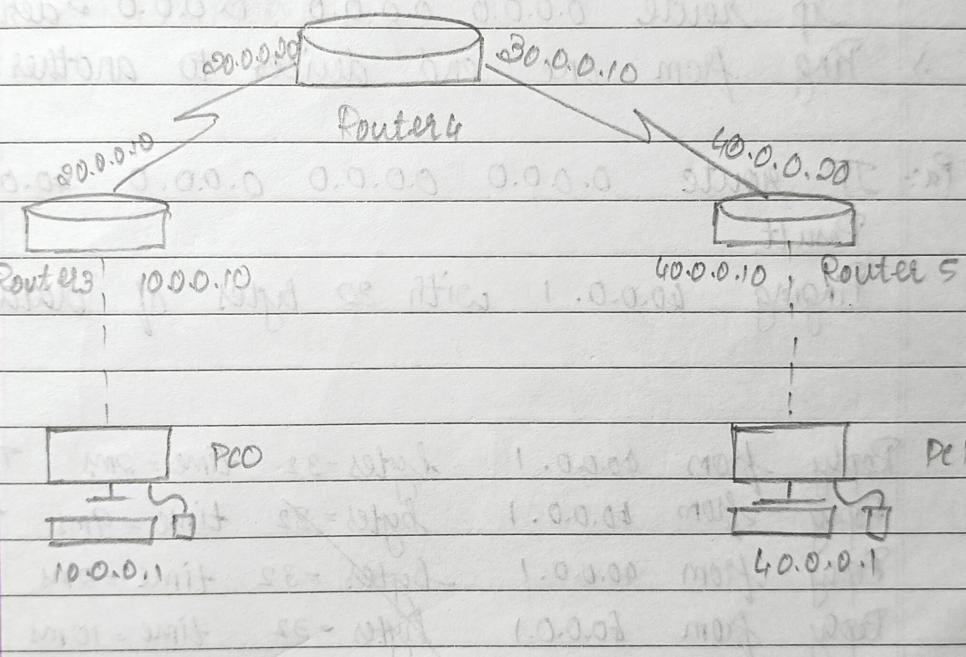
EXP - 3

CONFIGURATION OF DEFAULT ROUTE

AIM:

Configure default route and static route to the route.

TOPOLOGY:



PROCEDURE

Add two end devices and three routers to the workspace.

Connect routers through serial DTE cable and end devices through copper cross over cable

Assign IP addresses to the end devices.

End device 1 : 10.0.0.1

End device 2 : 40.0.0.1

→ Config gateways through the following CID command.

- ① Enable
- ② config t
- ③ interface <port>
- ④ ip address <ip address> <subnet mask>
- ⑤ no shutdown
- ⑥ exit

→ Using command line interface

ip route 0.0.0.0 0.0.0.0 0.0.0.0 <destination ip>

→ Ping from one end device to another.

Eg: IP route 0.0.0.0 0.0.0.0 0.0.0.0 40.0.0.1

Result

Pinging 40.0.0.1 with 32 bytes of data:

Reply from 40.0.0.1 bytes = 32 time = 2ms TTL = 125
Reply from 40.0.0.1 bytes = 32 time = 9ms TTL = 125
Reply from 40.0.0.1 bytes = 32 time = 2ms TTL = 125
Reply from 40.0.0.1 bytes = 32 time = 10ms TTL = 125

Ping statistics for 40.0.0.1:

Packets: sent = 4 received = 4, lost = 0 (0% loss)

Approximate round trip time in milli seconds

Minimum = 2ms

Maximum = 10ms Average = 5ms

OBSERVATION

- Routers are seen to connect 2 different networks together
- If a router has only one path to traverse default routing to send packets of any destination, to its adjacent device. Router 0 & Router 1
- End device send the packet to the routers which then redirect it to the appropriate destination.