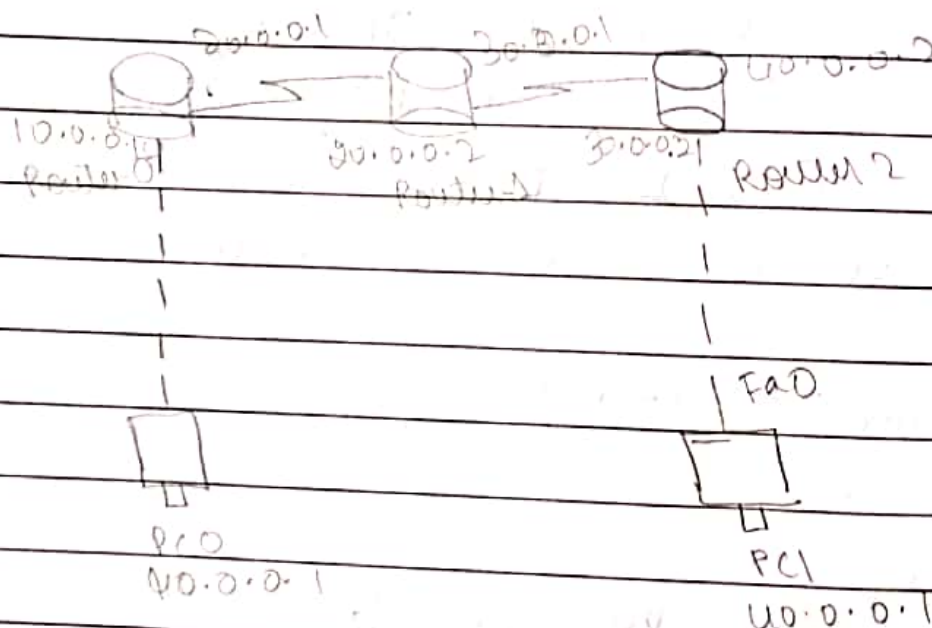


EXP-3

Q. Configuring default route to the Router

AIM: To understand how packets are transferred between 2 PCs via 3 routers

TOPOLOGY:



PROCEDURE: 1) Take 2 PCs connect them to 2 different routers and connect those 2 routers to another router

2) Set PC0 IP address to 10.0.0.1 and PC1 to 40.0.0.1 with subnet mask 255.0.0.0 in the config → fastEthernet

3) Go to each router CLI and type the commands

provided below

4) Go to PC0 config gateway type the address given to each interface of routers
PC0 → 10.0.0.10 → PC1 → 40.0.0.2

5) Go to PC0 and Desktop → Command prompt type ping 40.0.0.1 to send messages from PC0 to PC1 and vice versa

CLI : Router 0 -

no → enable → config t → ^{interface} fast ethernet 0/0 →
ip address 10.0.0.10 255.0.0.0 → no shut →
exit → config t → interface serial 2/0 →
ip address 20.0.0.1 255.0.0.0 → no
shut → exit

Router 1 -

no → enable → config t → ^{interface serial} fast ethernet 2/0 →
ip address 20.0.0.2 255.0.0.0 → no shut →
exit → enable → config t → interface serial 2/0 →
ip address 30.0.0.1 255.0.0.0 → no shut →
exit

Router 2 -

no → enable → config t → ^{interface} fast ethernet 0/0 →
ip address 40.0.0.2 255.0.0.0 → no shut → exit →

enable → config → interface serial 3/0 →
ip address 30.0.0.2 255.0.0.0 → no shut
exit.

To connect all devices to each other.

Router 0 -

enable → config →

ip route 30.0.0.0 255.0.0.0 20.0.0.2 →
ip route 40.0.0.0 255.0.0.0 20.0.0.2 →
exit

Router 1 -

enable → config →

ip route 40.0.0.0 255.0.0.0 30.0.0.2 →
ip route 10.0.0.0 255.0.0.0 20.0.0.1 →
exit

Router 2 -

enable → config →

ip route 20.0.0.0 255.0.0.0 30.0.0.1 →
ip route 10.0.0.0 255.0.0.0 30.0.0.1 →
exit

OBSERVATION: After all connection successfully
pinged PC2 from PC1 and vice versa