

EXPERIMENT 3

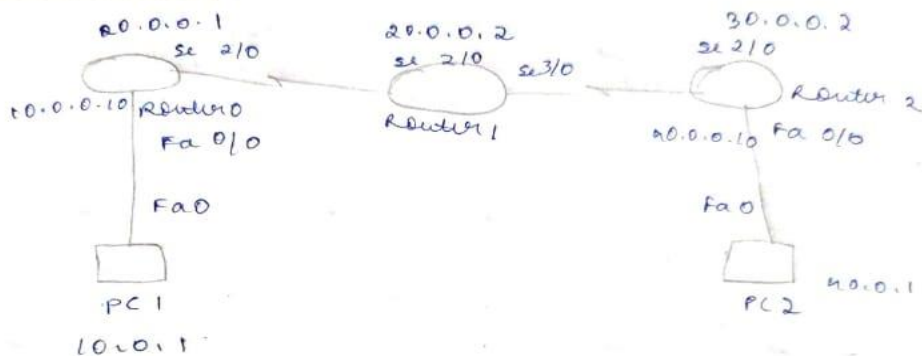
EXP - 3

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- Demonstrating IP routing by using 3 routers

- AIM: By using IP route command, connect 2 different networks over 3 routers

TOPOLOGY:



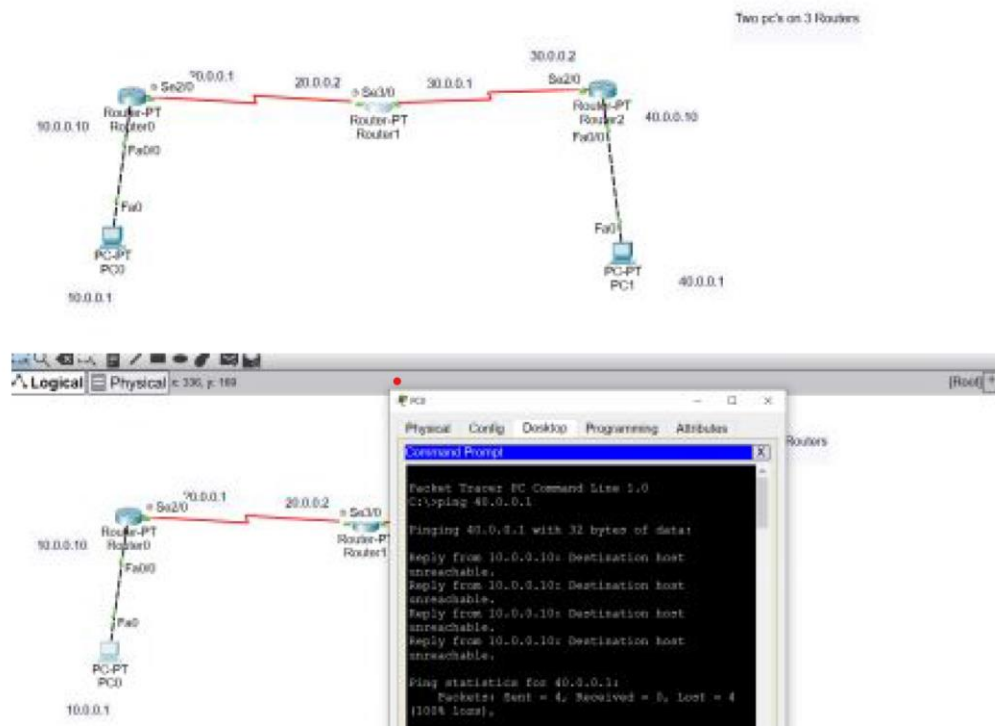
PROCEDURE:

- 1) connect 2 computers to their respective routers
- 2) configure IP and default gateways for the PCs
- 3) connect the routers with DCE cable over serial interfaces
- 4) configure IP routing for each router.

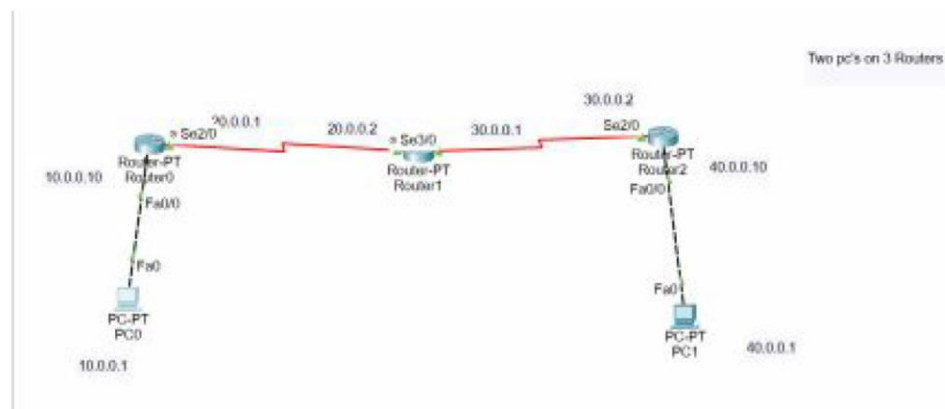
- CLI:
 - (i) config
 - (ii) interface FastEthernet 0/0
 - (iii) ip address 10.0.0.10 255.0.0.0
 - (iv) no shut
 - (v) interface serial 2/0
 - (vi) ip address 20.0.0.2 255.0.0.0
 - (vii) no shut
 - (viii) show ip route
 - (ix) ip route 30.0.0.0 255.0.0.0 30.0.0.1
 - (x) exit.

- OBSERVATION: The router forwards the data to said IP range over specific serial interface of the next router

OUTPUT -



TOPOLOGY



PING

