QUESTION: Demonstrating IP Routing by using 3 Routers

AIM: By Using IP Route command, Connect two different Networks over 3 Routers

TOPOLOGY:

Two pc's on 3 Routers 30.0.0.2 20.0.0.1 Se2/0 20.0.0.2 30.0.0.1 © Se2/0 ∘ Se3/0 Router-PT Router-PT 40.0.0.10 Router-PT Router2 10.0.0.10 Router1 Fa0/0 Fa0/0 40.0.0.1 10.0.0.1

PROCEDURE:

- 1. Connect the two computers to their respective routers
- 2. Configure the IP and default gateways for the PC's
- 3. Connect the routers with a DCE cable over Serial Interfaces
- 4. Configure IP Routing for each Router

CLI COMMANDS - FOR ONE ROUTER -

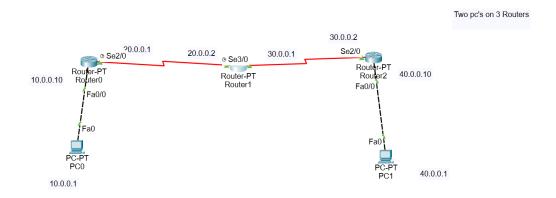
- 1. config t
- 2. interface FastEthernet0/0
- 3. ip address 40.0.0.10 255.0.0.0
- 4. no shut
- 5. interface serial2/0
- 6. ip address 30.0.0.2 255.0.0.0
- 7. no shut

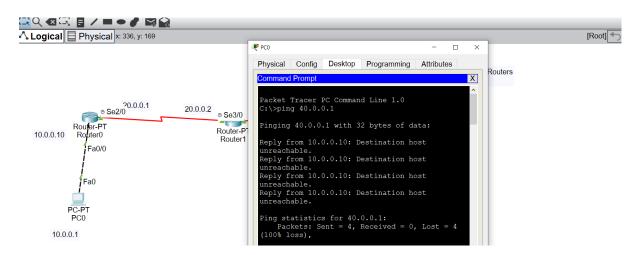
- 8. show ip route
- 9. ip route 20.0.0.0 255.0.0.0 30.0.0.1
- 10. exit

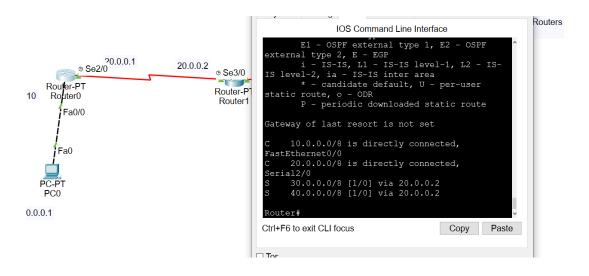
OBSERVATION -

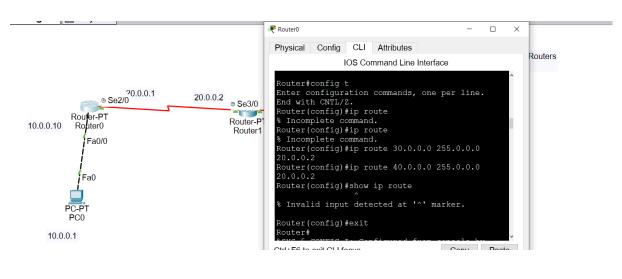
The router forwards the data to said IP range over the Specified Serial Interface of the next router

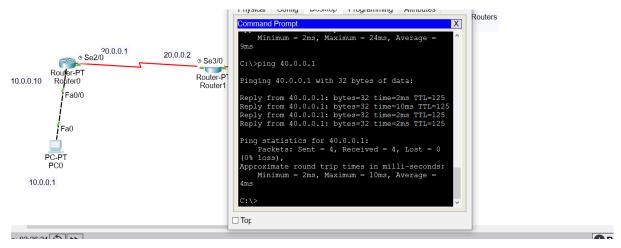
SCREENSHOTS -



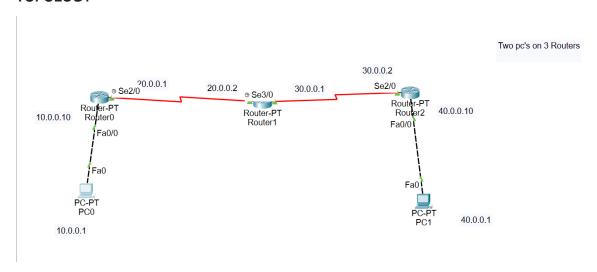




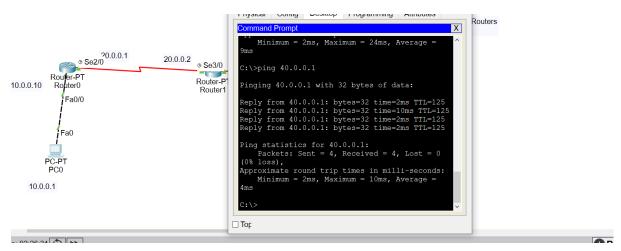




TOPOLOGY



PING



RESULTS

