1BM18CS122 VARAD VITHAL KJ

QUESTION: Demonstrating IP Routing by using 3 Routers

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

VARAD VITTA 1BM18CS (22 EXP-3 Quistion: Demonstrating IP routing 64 using 3 routers. APM: - By using IP Rouse command, connect the different networks over 3 voidey Topology: 30.0.0.2 20.0.0.1 20.00.2 Se2/0 Se 210 se 2/0 Se3/0. Roway 10.0.0.10 40.0.0.10 Faclo Router Fa 0/0 30.0.0.1 Fao Fao PCZ PCD 40.0.0. 10.0.01

VARAD 1BM 18 CS122 Procedure: in connect the two Pc's to their espective (ii) config me IPV4 & defaunt gadeways for the PC'S iii) Connect the routes with DCE Cable over Serial (iv) Configure IP vouting for each voute - for one router CLI Commands 1.) config t 2.) Entejace FastEtherret010 3) ip address 10.0.0.10 255.0.0.0 4) nosmut

5) Interface Serial 210 VARAD

20.0.0.1

6) padderers Ho.0.0.0 255.0.0.0 18M18CS 122

20 no Shut

8) p vonte 20.0.0.0 255.0.0.0 30.0.0

9) Exit

Observation:-

The vowerformounds the double to Sound Il varge over the specified serial Interface of the next vower

TOPOLOGY:

Two pc's on 3 Routers 30.0.0.2 9 Se2/0 20.0.0.2 Se2/0 30.0.0.1 c Se3/0 Router-PT Router-PT Router0 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

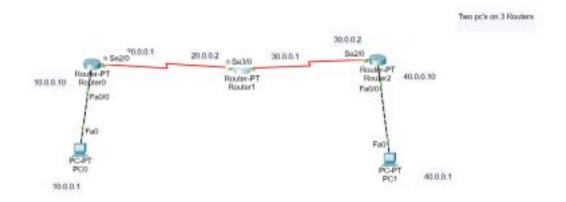
CLI COMMANDS - FOR ONE ROUTER -

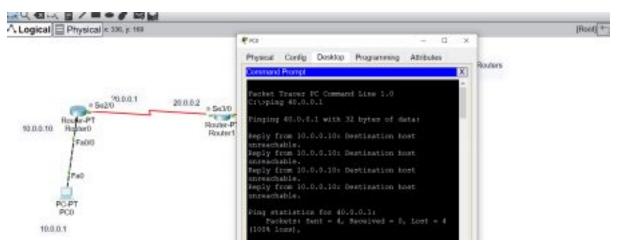
- 1. config t
- 2. interface FastEthernet0/0
- 3. ip address 40.0.0.10 255.0.0.0
- 4. no shut
- 5. interface serial2/0
- 6. ip address 30.0.0.2 255.0.0.0
- 7. no shut
- 8. show ip route
- 9. ip route 20.0.0.0 255.0.0.0 30.0.0.1
- 10. exit

OBSERVATION -

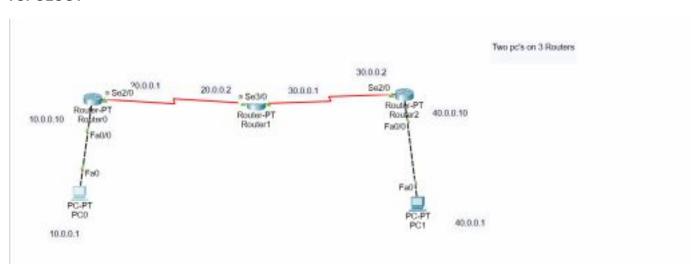
The router forwards the data to said IP range over the Specified Serial Interface of the next router

SCREENSHOTS -

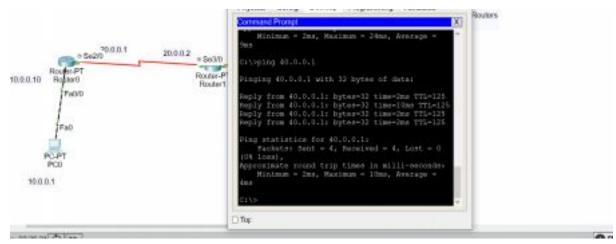




TOPOLOGY



PING



RESULTS