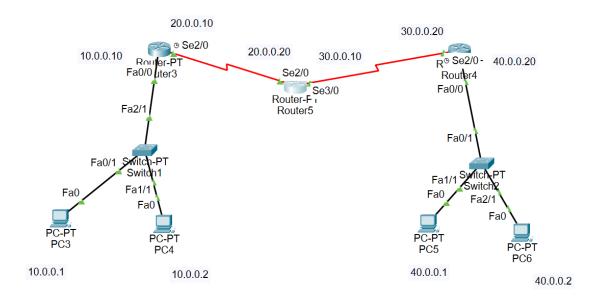
QUESTION: Configure default route with router

AIM: Using ip route set default route with 3 routers to route traffic to other routers over serial interface

MART Procedure: -KJ VARAD VITHAL -2 18M18CS122 1.) Connect the PC's to the vower via a Smitch 2) connect the vowles to each other over serial Enterpare(s) cusing DCE (RS-232 conble 37 configure static IPV4 for the PC's & set meir defaunt governag 4) Set Serial Prteyace IPV4 addressy tre 5) Set routing pathy for each routes. 6) preg from first La totu other. I toldie sow orogen (the the sold my 20 so stridered but the serverble ed 2) is used to configure the vonter for

CLI commands-for one Rowley 1BM 18CS 12 Menable 2) Show iproute 8) config t 47 Inderfactastetmental o 5) pp addrews 10.0.0.10/285.0.0.0 6) no shut. 7) Porteyax Serial 2/0 87 lp address 20.0.0.10255.0.0.0 or 9) iproute 0.0.0.0 0.0.0 20.0.0.20 5 10) nosmit Observation I) Traffic from 0.0.0.0 (Any IP rage will be forwarded outo the sevialistyan to me address 20.0.16 Fa 27 no need to configure the vower for each specific Il venge. 11

TOPOLOGY:



PROCEDURE:

- 1. Connect the PC's to the router via a switch
- 2. Connect the routers to each other over serial interface(s) using DCE/RS-232 Cable
- 3. Configure Static IPv4 for the PC's and set their default gateway
- 4. Set Serial interface IPv4 addresses of the routers
- 5. Set routing paths for each routers
- 6. Ping from first Lan to the Other

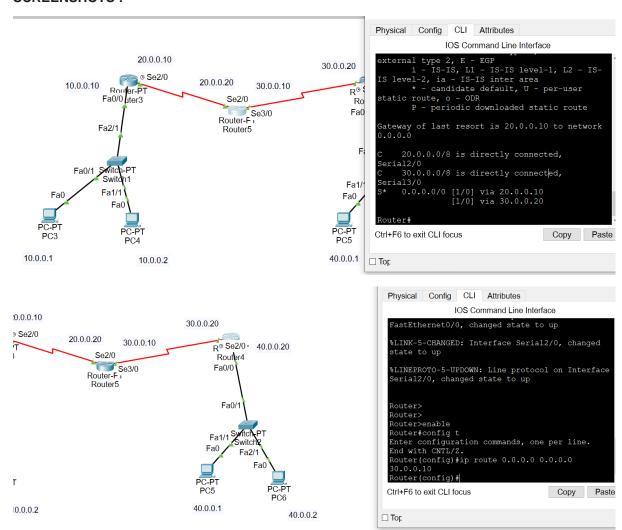
CLI COMMANDS - FOR ONE ROUTER

- 1. enable
- 2. show ip route
- 3. config t
- 4. interface fastethernet0/0
- **5.** ip address 10.0.0.10 255.0.0.0
- 6. no shut
- 7. interface serial2/0
- 8. ip address 20.0.0.10 255.0.0.0
- **9.** ip route 0.0.0.0 0.0.0.0 20.0.0.20
- **10.** no shut

OBSERVATION:

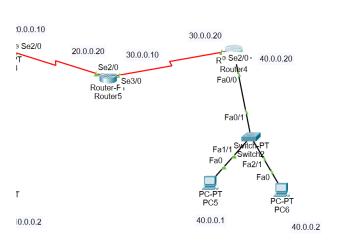
- 1. Traffic from 0.0.0.0 (Any IP range) will be forwarded onto the serial interface to the address 20.0.0.10
- 2. No need to configure the router for each specific IP range

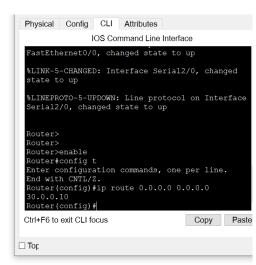
SCREENSHOTS:

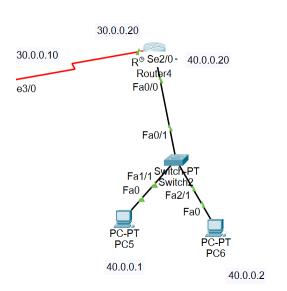


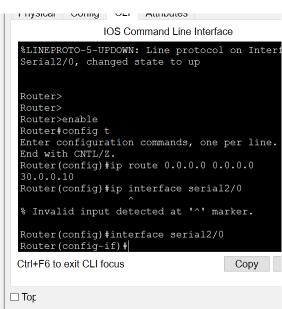
CLI COMMANDS:

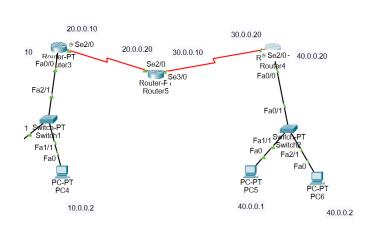
Ip routing

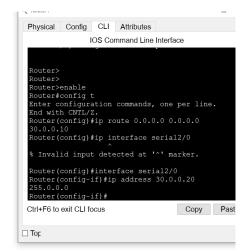












PING

