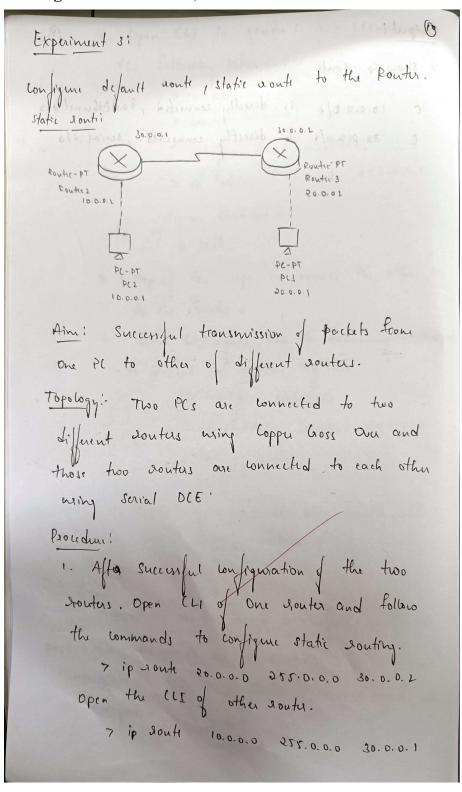
COMPUTER NETWORKS

EXP-3

TITLE: Configure default Route, static route to the Router



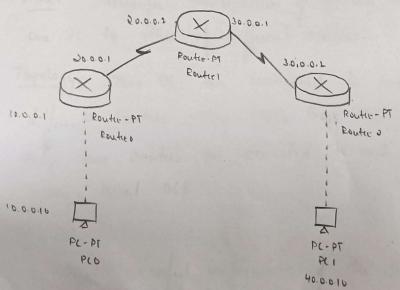
Observation! After configuration of static honting, the O two PCs of two different houses networks are able to transfer I transmit the packets using the ping continued. Output; Pontutt show ip donte c 10.0.0.0/8 is directly unnected, Part Ethernet olo S 20.0.0.012 [1/0] via 30.0.0.2 c 300.0.018 is directly connected, Serial 2/0

Configure default sonte, static sonte to the Ponta Ami To configure a défault sonte and static Dout to a douter in a network and verify connectivity.

Topology:

Routero: and Router 2 are wonnected scrally via douter 1 wing . Det cable. Peo is connected to Routero miny Copper Cross-ova, similarly PC1

is connected to Pouter 2.



Procedure!

1. Configure the fast Ethanet tonnection between the pe and the souter with appropriate 19 addresses. For, Routes 2 set the static aouting connectionity by following

Router # wonfig-t

Router (conf.) H ip south 40.0.0.0 255.0.0.0 30.0.0.2

Router (conf.) H ip south 10.0.0.0 255.0.0.0 20.0.0.1

There commands will oct the static Routing of the Router #1.

3. Set the default fonting of Router o and Pouter d.

Router H config - t

Router (config) # ip donte 0.0.0.0 0.0.0.0 20.0.0.2

Router

Ponter l'unfig - t

Router (wonfig) # ip 2001/10.000 0.0.0.0 30.0.0.1

when the network and the subnet mark over set as 2000 0.0.0.0. Any unknown network will be transferred to the next hop address mentioned.

Observation!

After configuring the default wonte, PCO could communicate with external networks, including PCI. The static wonte ensured that packets one followed the specified path as given in the static working.

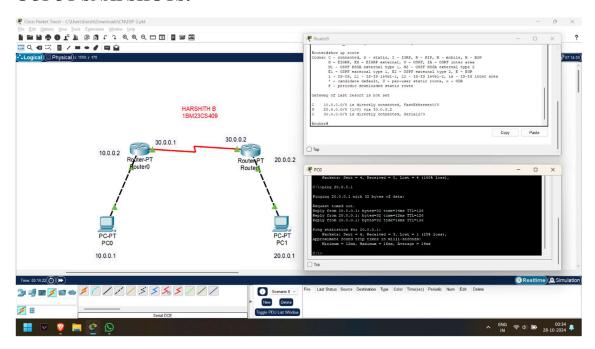
Output:

Router 1: # 8 how ip wonte

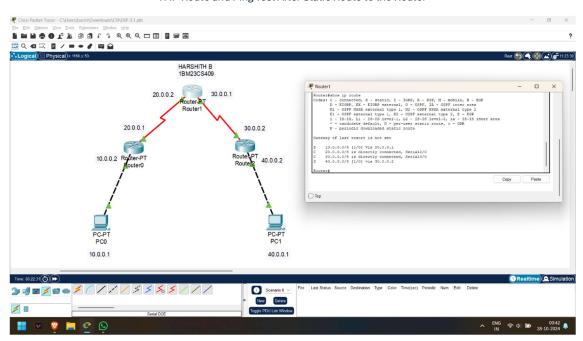
- s 10.0.0.0/8 [1/0] via 20.0.0.1
- c 20.0.0.018 is directly connected, Serial 2/0
- c 30.0.00/8 is directly connected, serial 3/0
- s 40.0.0.0/8 [1/0] via 30.0.0.2

Ponter 0: # show ip route 10.0.0.018 is directly connected, Fast Ethundolo c 20.0.0.018 is directly connected, Strial 2/8 0.0.0.0/8 [1/0] via 20.0.02 Routu 2: # show ip vout C 40.0.0.018 is directly connected, Fartbthundolo 30.000 ls is directly countried, Serial 3/0 0.0.0.0/8 [1/0] ria 30.0.0.1 Portuliantiz) It is south o.c.o.o co.c.o 30.0.01 set as 2000000 they unknown network will be trouslassed to the rest hop address mechanics. After configuring the detoudt youte, 200 could

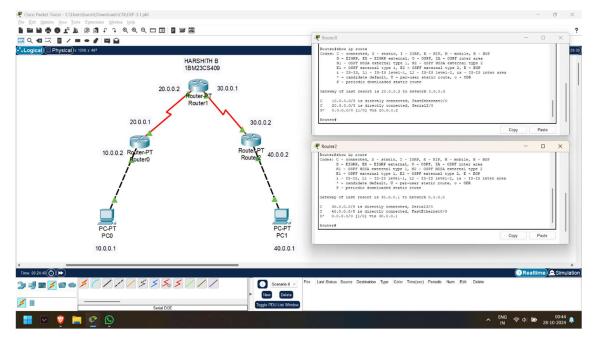
OUPUT SNAPSHOTS:



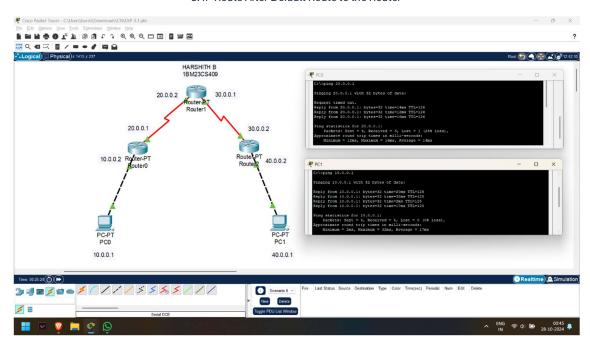
1. IP Route and Ping Test After Static Route to the Router



2. IP Route after Static Route to the Router



3. IP Route After Default Route to the Router



4. Ping Test after default route and static route configuration to the Router