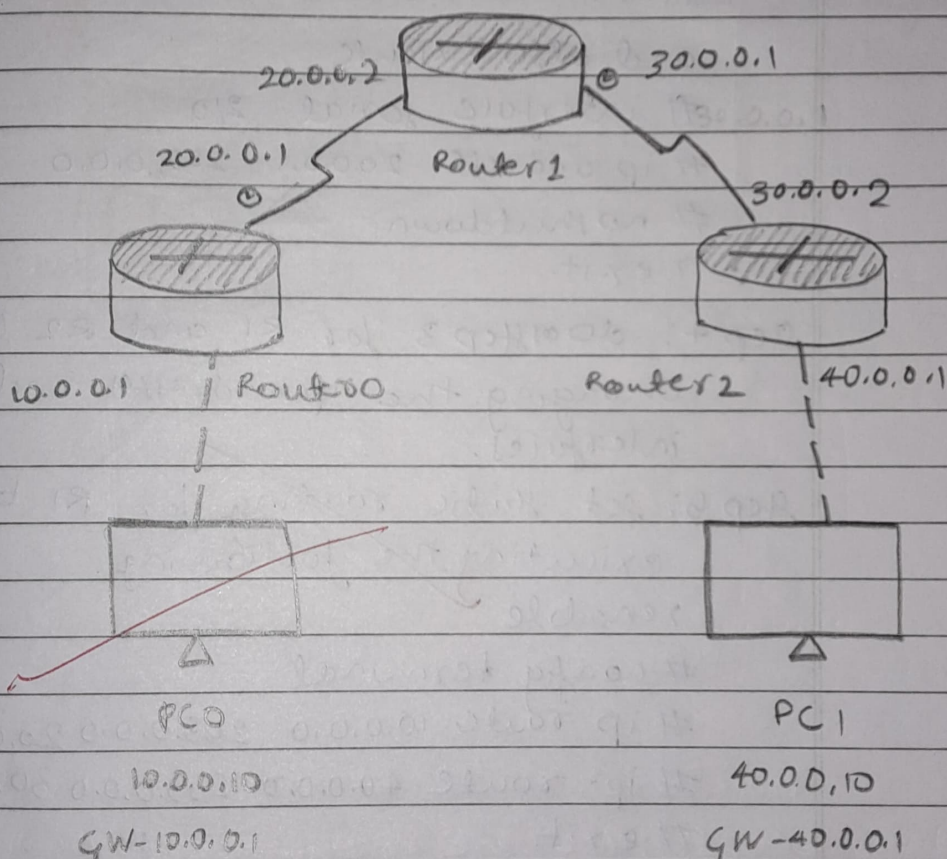


Lab-3

⇒ Static Routing, default routing.

Objective: Configuring 3 Routers with default and static routing methods.

Topology:



Procedure

Step 1: Place 2 PC R0 & PC1 and 3 Routers R0, R1 and R2. Connect PC0 to R0 and PC1 to R2 using copper crossover. Connect R0 to R1 and R2 to R1 using serial DCE.

Step 2: configure R0's ip to 10.0.0.10 and gateway as 10.0.0.1. for PC1 set ip as 40.0.0.10 and gateway as 40.0.0.1

Step 3: select R0 → go to CLI → execute
 > enable

config terminal

interface fastEthernet 0/0

ip address 10.0.0.1 255.0.0.0

no shutdown

> exit.

and also execute

interface serial 2/0

ip address 20.0.0.1 255.0.0.0

no shutdown

> exit.

Step 4: do step 3 for R1 and R2 by changing the ip addresses and the interfaces.

Step 5: set static routing for R1 by executing the following
 > enable

config terminal

ip route 10.0.0.0 255.0.0.0 20.0.0.1

ip route 40.0.0.0 255.0.0.0 30.0.0.2

exit.

Step 6: set Default routing for R0 by executing the following

> enable

config terminal

ip route 0.0.0.0 0.0.0.0 20.0.0.2

Step 7: set Default routing for R2 by executing step 6's commands by changing ip route as

#ip route 0.0.0.0 0.0.0.0 30.0.0.1

observation:

- All PC's and routers are connected successfully.
 - Default routing is set for R0 and R2
 - Static routing is set for R1
 - After adding ip routes, the ping from PC0 to PC1 using command
- ~~ping 40.0.0.10~~ will be successful.

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10/10