

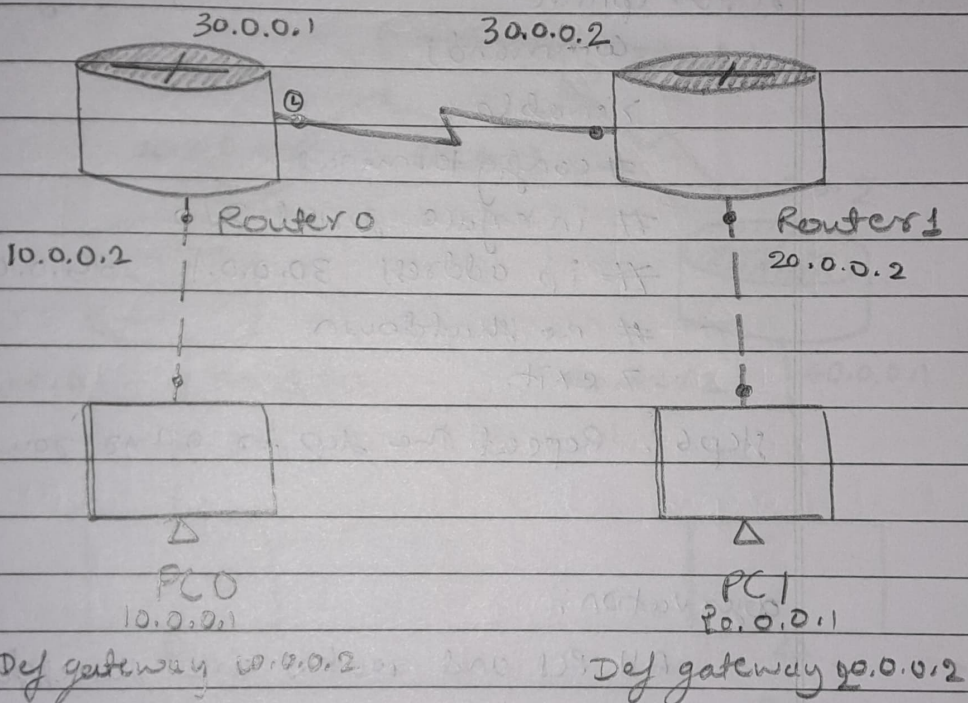
Lab-2

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Objective: Configure default route, static route to router. To connect two PCs on two different networks using two routers

Topology:



Procedure:

- Step 1: Place 2 PCs and 2 routers i.e. PC0, PC1, router0, router1. Connect PC0, router0 and PC1, router1 with copper crossover wire and router0 and router1 with a serial DCE.
- Step 2: Configure PC0 to IP 10.0.0.10 and default gateway 10.0.0.1 and PC1 to IP 20.0.0.10 and default gateway 20.0.0.1

Step 3: select router 0 → CLI and execute the following commands

> enable

config terminal

interface fast ethernet 0/0

ip address 10.0.0.2 255.0.0.0

no shutdown

> exit

Step 4: Repeat the steps for other router.

Step 5: Connect the routers by the following commands

> enable

config terminal

interface serial 2/0

ip address 30.0.0.1 255.0.0.0

no shutdown

> exit

Step 6: Repeat the step for other routers

Observation:

- All PCs and routers are successfully connected.

- Ping 20.0.0.10 & Ping 30.0.0.2 are

~~unsuccessful~~ And show destination host unreachable. This happens because

~~they~~ are not neighbour network with 10.0.0.1

- Ping 30.0.0.1 will be successful.