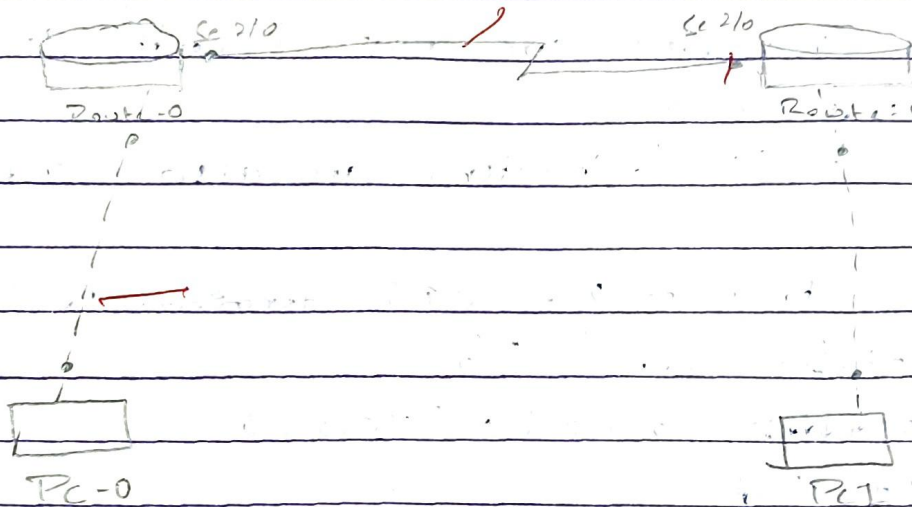


Experiment - 3

Objective: To create 2 Network using 2 router with an end devices.

Topology



Procedure

Step 1: Place 2 generic PC and 2 Routers

Step 2: Connect PC-0 to Router-0 with copper crossover cable and PC-1 to Router-1 with copper crossover cable

Step 3: Connect Router-0 to Router-1 with Serial DCE cable

Step 4: Select PC-0 config -> FastEthernet0
Set IP address 10.0.0.1 and set gateway as 10.0.0.2

Step 5: select PC-1 config -> FastEthernet0 set IP address 20.0.0.1 and set gateway as 20.0.0.2

Step 6:- Select Router 0 & go to CFI
Execute the following commands

> enable

config terminal

interface FastEthernet 0/0

ip address 10.0.0.1 255.0.0.0

no shut

notice PC0 & router 0 are successfully connected repeat the same procedure for router 1 with ip address 20.0.0.1 255.0.0.0

notice PC1 & router 1 are also successfully connected

Step 7:- go to router 0 -> CFI terminal & execute the below

interface serial 2/0

ip address 30.0.0.1 255.0.0.0

no shut

go to router 1 -> CFI config terminal & execute

interface serial 2/0

ip address 30.0.0.2 255.0.0.0

no shut

notice router 0 & router 1 are successfully connected

Step 8:- got to PC0 & -> Desktop -> command prompt & run

Ping 20.0.0.1

Ping 30.0.0.2

Ping 30.0.0.1

& observe the output

Observation

- 1] All pc's and router are connected. Successfully
- 2] Ping 20.0.0.1 & Ping 30.0.0.2 are unsuccessful
& show destination host unreachable. This happens because they are not neighbor networks with 10.0.0.1
- 3] Ping 30.0.0.1 will be successfully.

~~Config~~ IP route 30.0.0 255.0.0.0 20.0.0.2

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