Experiment - 6.

Date
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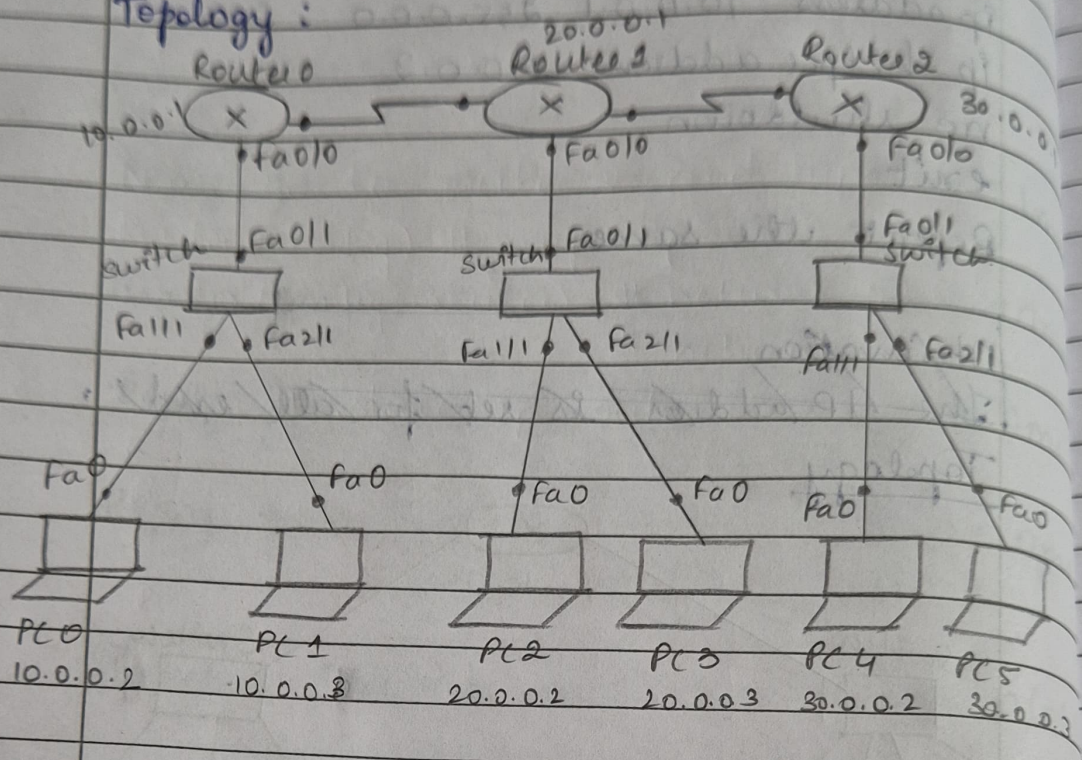
Aim : Configure RIP routing protocol in Routers.

Topology :



~~Cont~~ Procedure :

1) Configure the routers, switches and generic PC's
2) For the PC's navigate to config interface and fastethernet 0 and set the IP address for all six PC's
3) Similarly for all six PC's, navigate to config, global, settings and set gateway as the IP address of the router it is connected to.
4) In Router 0, navigate to config, fast ethernet 0/0, and add ip address (10.0.0.1)
5) Then go to serial 3/0 and update ip address as 40.0.0.1 Go to CLI and enter command no shut.

6) In Router 1, Go to Interface, fast ethernet 0/0 set Ip address as 20.0.0.1. Go to serial 2/0 and set IP address 40.0.0.2 In CLI enter no shut.
Go to serial 3/0 and set Ip address as 50.0.0.1
In CLI enter no shut.

7) In Router 2,
Go to Interface, fast ethernet 0/0, set IP address as 30.0.0.1, Go to serial 2/0 and set IP address as 50.0.0.2.

8) If connections are not active after this, in all routers check the fast ethernet and enter no shut in the CLI again.

9) Now all the ~~are~~ connections are active (green).

10) So now go to router 0 and in CLI type
Router (config) # router rip
Router (config-router) # network 10.0.0.0
Router (config-router) # network 40.0.0.0
Router (config-router) # exit
Router (config) # exit
Router # show ip route
C . . .
R
C
C . . .

Now go to router 1. and in CLI type
Router (config) ~~no~~ # router rip
Router (config-router) # network 40.0.0.0
network 50.0.0.0
network 20.0.0.0

Router# show ip route
R...
C...
C...
C...

Now go to router 2 and type
Router (config) # router rip
Router (config-router) # network 50.0.0.0
network 30.0.0.0
Router# show ip route
R...
R...
C...
R...
C...

Observation:
From PC1 we can ping to PC5
PC> ping 30.0.0.3
Packets: Sent = 4, Received = 4, Lost = 0
(0% loss).