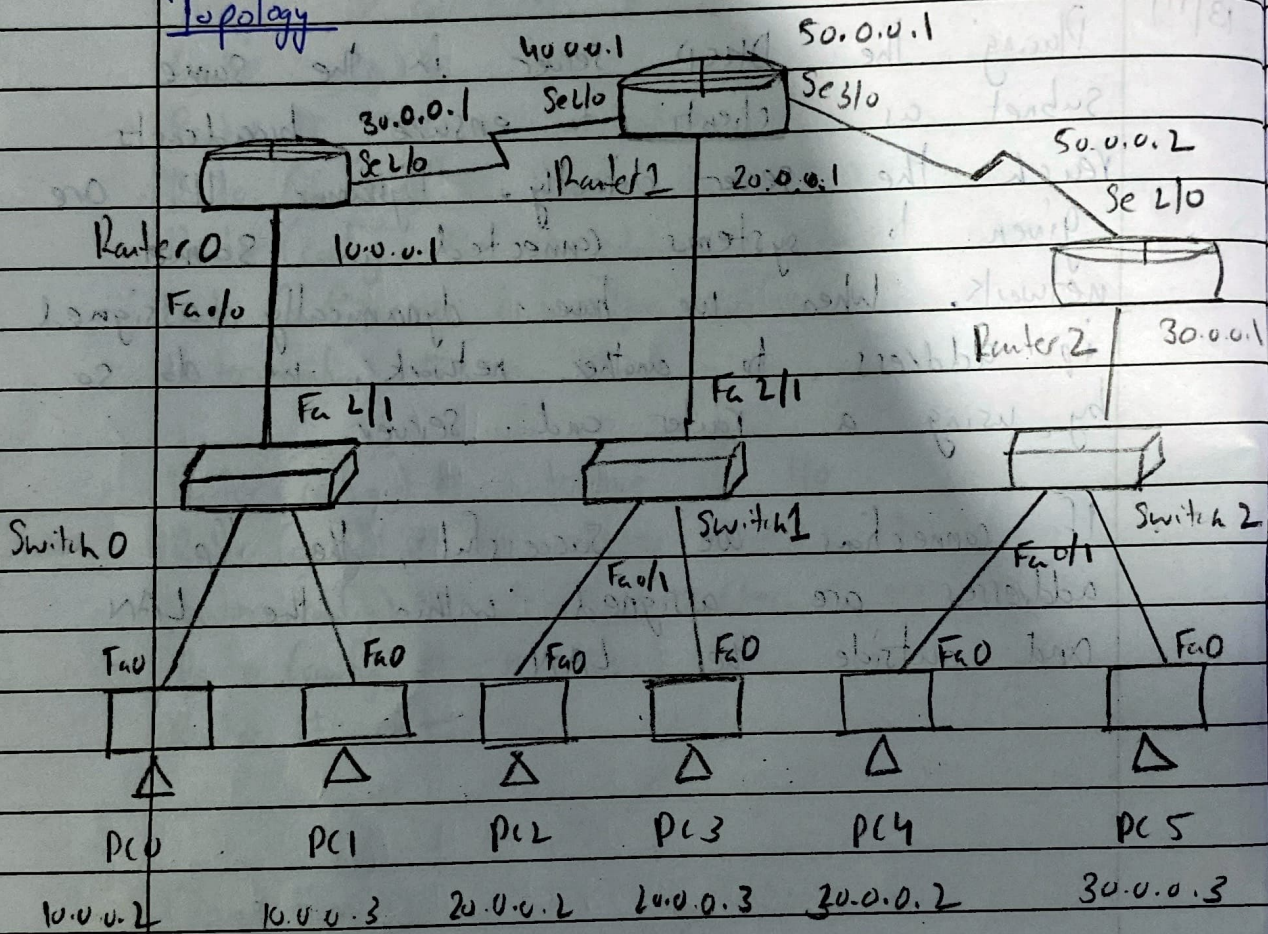


Experiment 5 - Configure routing ~~info~~ information protocol in Router

Aim - To configure the routing information protocol in all the Routers of the setup and ensure connections are well established.

Topology



1. Switch 0 connected to Router 0 interface Fa 0/0 using copper-straight through cable from Fa 2/1.
2. Similarly, Switch 1 and Switch 2 connected to Router 1 interface Fa 0/0 and Router 2 interface Fa 0/0 respectively.
3. Router 2 connected to Router 0 and Router 1 via Se 2/0 and Se 3/0 interface respectively.

4. PC0, PC1 connected to Switch 0 via copper straight cable with IP address 10.0.0.2 and 10.0.0.3 respectively.
5. PC2, PC3 connected to Switch 1 via copper straight cable with IP address 20.0.0.2 and 20.0.0.3 respectively.
6. PC4, PC5 connected to Switch 2 via copper straight cable with IP address 30.0.0.2 and 30.0.0.3 respectively.

Procedure

- Open Cisco packet tracer and drag the following components:
 - Router: Place 3 routers in the middle.
 - Switch: Place 3 switches and connect them to the routers with Fa 2/1 interface.
 - PC: Place 6 PC's, two of them connected to each of the 3 switches via Fa 0/0 interface.
- Configure all the 3 routers:
 - Router 0:
 - Router > enable
 - Router # > config terminal
 - Router (config) # interface serial 2/0
 - Router (config) # ip address 30.0.0.1 255.0.0.0
 - Router (config) # no shut
 - Router 1:
 - Router (config) # interface serial 2/0
 - Router (config) # ip address 40.0.0.1 255.0.0.0

Router (config) # interface Fa 0/0

Router (config) # ip address 20.0.0.1 255.0.0.0

Router (config) # interface Se 3/0

Router (config) # ~~ip~~ ip address 50.0.0.1 255.0.0.0

Router (config) # no shut

• Router 3:

Router (config) # interface Fa 0/0

Router (config) # ip address 30.0.0.1 255.0.0.0

Router (config) # interface Se 2/0

Router (config) # ip address 50.0.0.2 255.0.0.0

→ Configure the RIP for all routers

• Router 1:

Router (config) # router rip

Router (config) # network 10.0.0.0

Router (config) # network 30.0.0.0

• Router 2:

Router (config) # router rip

Router (config) # network 40.0.0.0

Router (config) # network 20.0.0.0

Router (config) # network 50.0.0.0

• Router 3:

Router (config) # router rip

Router (config) # network 30.0.0.0

Router (config) # network 50.0.0.0

Observation:

- The routers communicate with each other and share ~~a~~ [↑] ~~their~~ routing table each of their

✓
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