Lab-5

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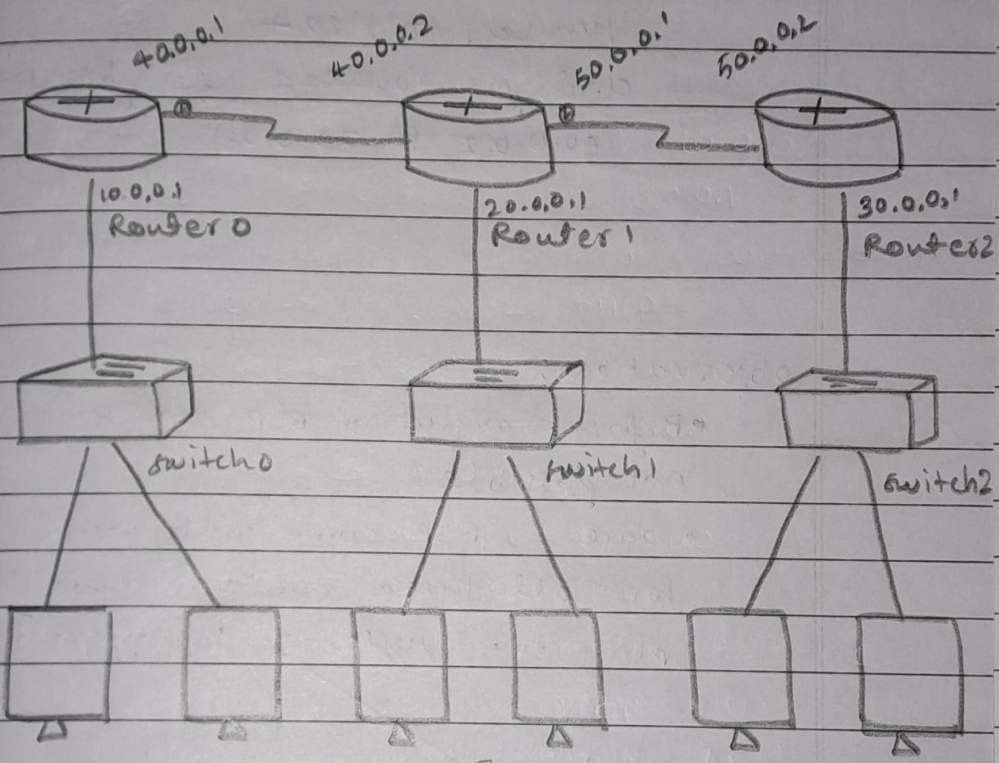
objective: Configure Routing information protocol (RIP) in router

Topology.



Procedure:

Step 1: Place 3 routers, 3 switches and 6 end systems in environment and connect them as shown.

Step 2: Set the ip's of end systems as shown along with their gateway.

Step 3: Configure gateway and ips for routers as shown in diagram.

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Step 4: Now go to the routers cli then execute below for Router0

Router(config)# router rip
router(config)# network 10.0.0.0
Router(config)# network 40.0.0.0

Step 5: Go to router 1 then do for networks 40.0.0.2, 20.0.0.1 & 50.0.0.1 similars to step 4.
and for router 1 do for networks 50.0.0.2 & 30.0.0.1

Observations:

- Before exicuting RIP the Ping was not possible.
- once RIP commands were exicuted for all three routers, we can ping the systems in different networks

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~~Observation:~~

Objective: Demonstrate the TTL / life of a packet.

Procedure:

Step 1: Make all setup which is done in previous exercise.

Step 2: Go to simulation part, select simple pdu, and select source and destination for that.

Step 3: Click on Auto capture/play, then the packet will start to move, eventually reaches destination.

Observation

- Router is level 1, 2 and 3 device which contains the details about the message.
- TTL (time to live) / life of a packet tells about how much time message should stay in network.
- TTL value decreases by 1 after crossing each router.

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