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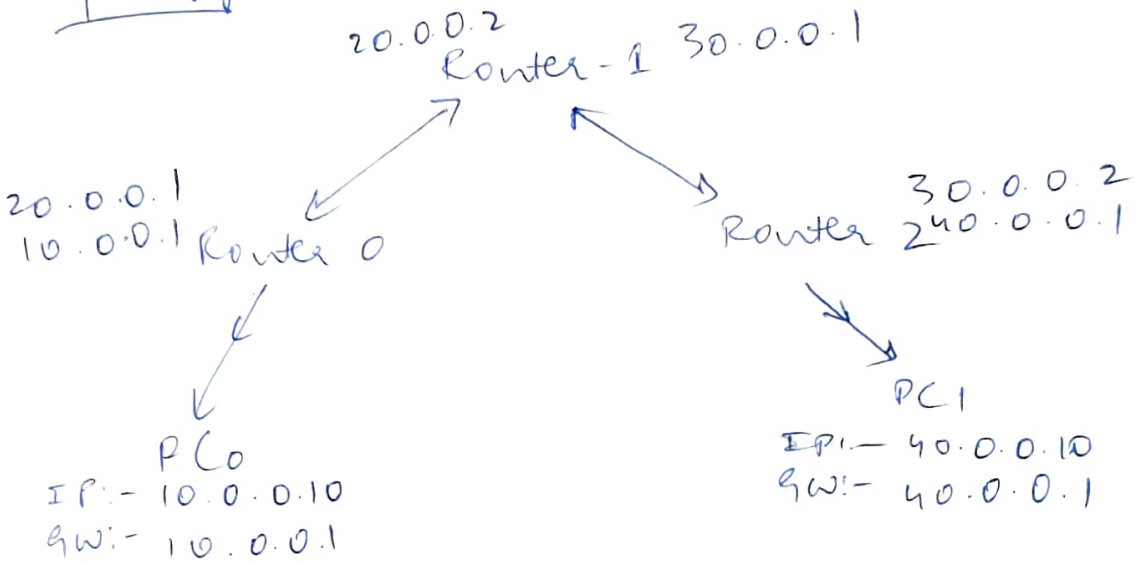
Lab-6

Q) Configuring RIP routing protocol in Routers

- Topology :-



- Set gateway & IP addresses to each device & router.

- Router 0

```
R0(config)# interface serial 2/0
R0(config)# router rip
R0(config-router)# network 10.0.0.0
R0(config-router)# network 20.0.0.0
R0(config-router)# exit
R0(config)# encapsulation ppp
R0(config)# clock rate 64000
R0(config)# exit
```

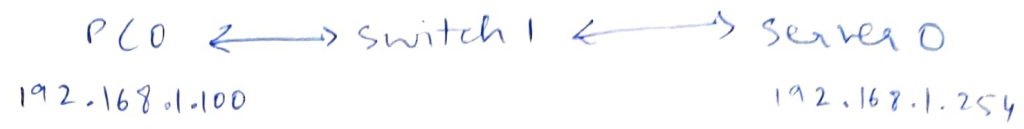
- Similarly execute commands for router 1 & router 2 for configuring
  - → router 1 with networks 20.0.0.0 & 30.0.0.0
  - → router 2 with networks 30.0.0.0 & 40.0.0.0

We use R0(config-router)# version 2 for configuring router by specifying the type routing info protocol to be used while configuring.

RIP version 2 is classless protocol with supports variable-length subnet masking.

6) Demonstration of web server and DNS using packet tracer.

Topology



- Set IP for PC & Server
- Set the DNS server configuration in PC0 config setting.
- Enable DNS service in server → services
- Web browse from PC0 using the server IP address assigned which shows the search for the partial IP address.

  PC → Desktop → Web browser → "Enter url"
- We can add and exit the web server pages by

  server → services → DNS

  Add the domain name & click 'ADD'.
- Then we can web browse from PC0 using the newly added domain.
- We can change the files of the pinged address by server → Services → HTTP

  There we can change / edit / delete the domain and file.