☆ Lab 5 ☆

Date
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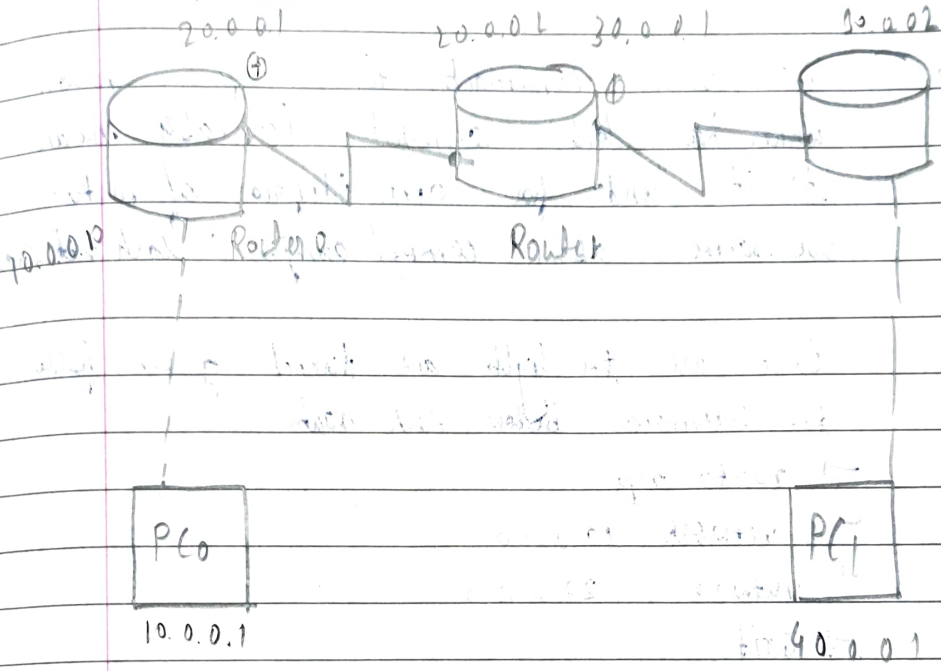
set default gateway ip

Aim: Configuring RIP Routing Protocol in Routers

Topology:



Procedure:

- Use 3 generic routers, 2 generic PC and place notes to indicate respective IP address.
- Use serial DCE cable to connect router and use copper cross cable to connect PC & router 1 and router 3.
- Set IP address, gateway & subnet mask as 10.0.0.1 10.0.0.10, 255.0.0.0 for PC0 set 40.0.0.1, 40.0.0.10, 255.0.0.0 for PC1
- interface PC0 and router1
  - → interface fastethernet 0/0
  - → IP address 20.0.0.10 255.0.0.0
  - → no shut

- for interfacing serial 2/0 of router 1
  - → interface serial 2/0
  - → ip address 20.0.0.1 255.0.0.0
  - → encapsulation PPP
  - → clock rate 64000
  - → no shut

- Use above commands for interfacing router which has clock symbol in cable near to it and for other interfaces of routers use same above command except "clock rate 64000"

- Once all the lights are turned green follow the commands below each router
  - → router rip
  - → network 10.0.0.0
  - → network 20.0.0.0
  - → exit

- ~~Repeat~~ Repeat the same commands for router 2 and 3

- Observation:
  Use RIP routing becomes easy when large number of routers are present

- Result:
  Pinging 10.0.0.1 with 32 bytes of data

reply from 10.0.0.1 byte = 32
reply from 10.0.0.1 byte = 32
reply from 10.0.0.1 byte = 32
reply from 10.0.0.1 byte = 32

ping statistics for 10.0.0.1
packets: sent = 4, recieved = 4, lost = 0

Wahi
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