

## Lab-4 (2)

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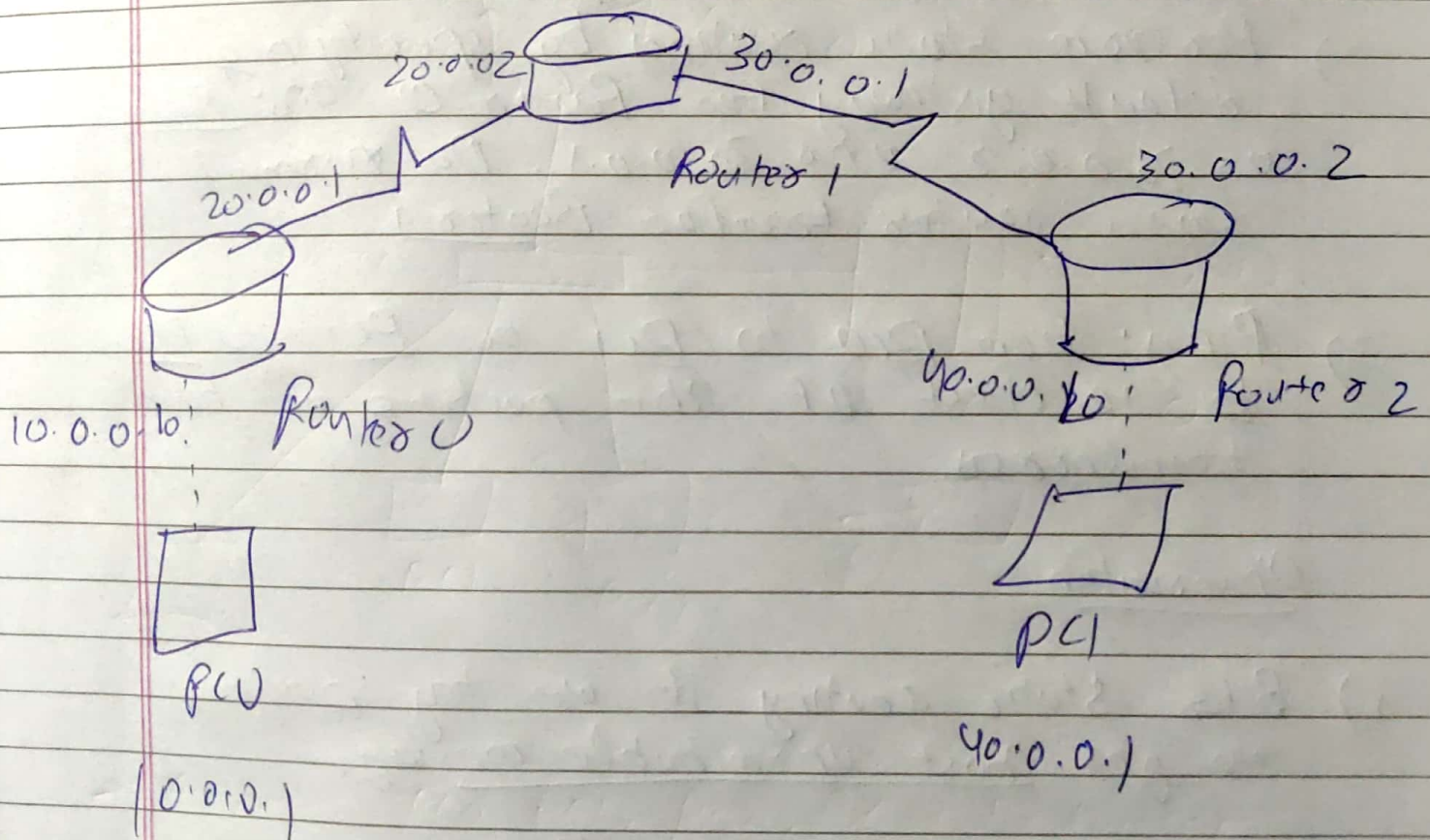
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4) Configuring default route from router

2 Topology



- => Connect PC0 to router 0 and PC1 to router 2
- => Connect Router 0 & Router 2 to Router 1



## IP configuration

- ⇒ Set the IP address for both the PC's along with the subnet mask and default gateway
- ⇒ Configure the gateway for all the routers
- ⇒ Check all the connections
- ⇒ Perform static routing by specifying default gateway for Router 0 and Router 1 as 20.0.0.2 and 30.0.0.1. Do not perform static routing for Router 1
- ⇒ Ping from PC0 to PC1 or PC1 to PC0 to check if the packets are being transferred.

## Observation

- i) Before static routing if we try pinging we get host unreachable message
- ii) After the routing all 4 packets will be pinged.

## For commands

- i) For Router gateway configuration

- ⇒ enable
- ⇒ Conf terminal
- ⇒ interface FastEthernet 0/0
- ⇒ IP address 10.0.0.10 255.0.0.0
- ⇒ no shut
- ⇒ exit

ii) Static Routing for Router 0 (Default Routing)

→ enable

→ config terminal

→ ip route 0.0.0.0 0.0.0.0 20.0.0.2

iii) Static Routing for Router 1

ip route 40.0.0.0 255.0.0.0 30.0.0.2

ip route 10.0.0.0 255.0.0.0 20.0.0.1

iv) Static Routing for Router 2 (Default Routing)

→ enable

→ ~~en~~ config terminal

→ ip route 0.0.0.0 0.0.0.0 30.0.0.1