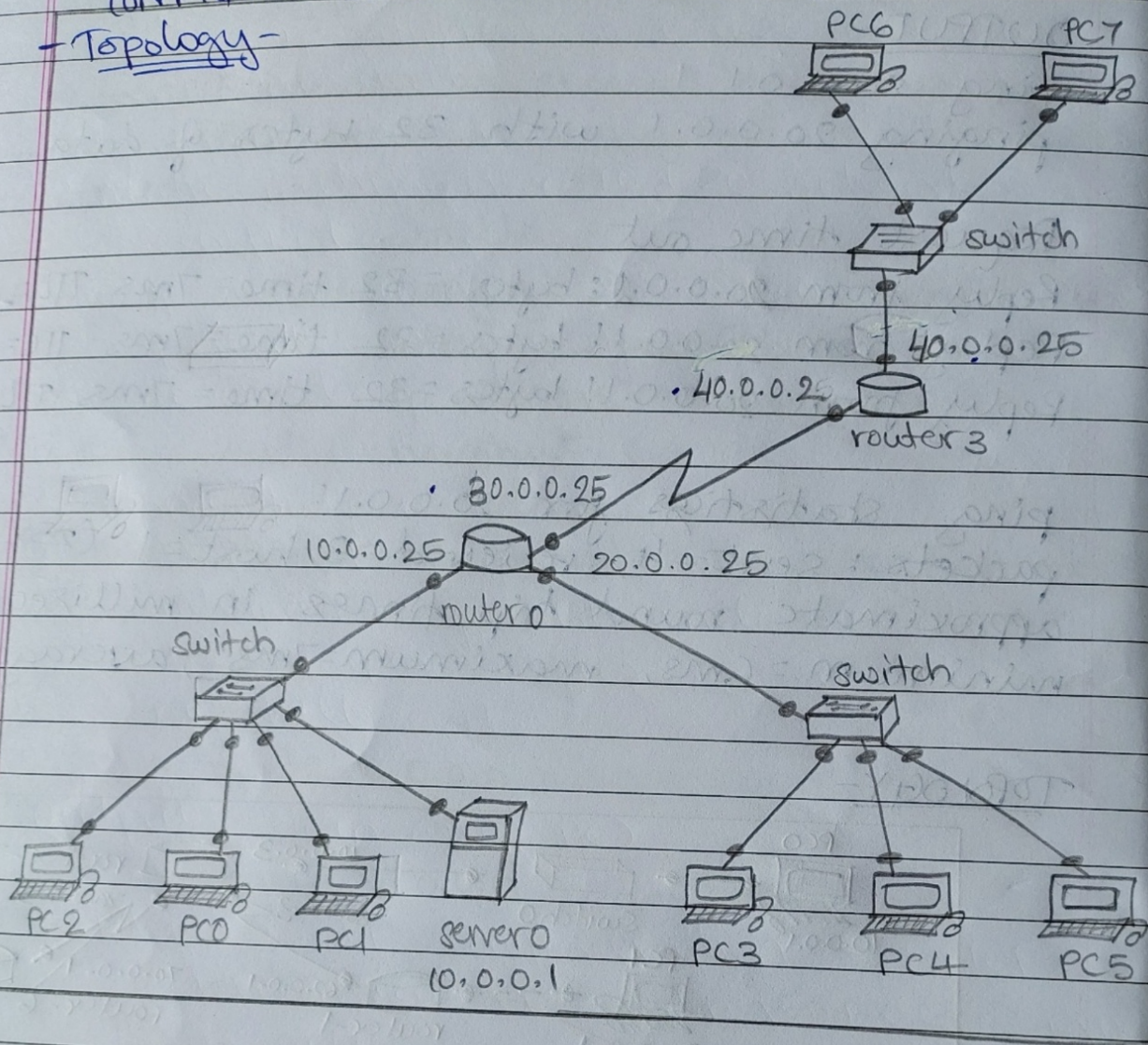


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## WEEK-5

### CONFIGURE DHCP within a LAN & outside the LAN

#### -Topology-



#### -Steps-

→ In server-

set IP address 10.0.0.1 (config → setting → gateway)  
 services → DHCP → ON  
 services → DHCP → Default gateway → 10.0.0.25  
 service pool  
 start ip address 10.0.0.2  
 save



→ service pool 1

gateway → 10.0.0.25

start IP address 20.0.0.25  
add

→ service pool 2

gateway → 10.0.0.25

start IP address 40.0.0.2  
add

→ In router 0 - set 2 network ip addresses

⇒ config t

interface fastEthernet 4/0

ip address 10.0.0.25 255.0.0.0

no shut (∵ 20.0.0.25)



config t

interface fastEthernet 0/0

ip helper-address 10.0.0.1

no shut

→ static route (for 40 ip)

⇒ config t

ip route 40.0.0.0 255.0.0.0 80.0.0.26

→ In router 1:

★ set IP address

⇒ config t

interface fastEthernet 0/0

Ip address 40.0.0.26 255.0.0.0

no shut



⇒ config t  
interface serial 2/0  
ip address 30.0.0.26 255.0.0.0  
no shut

→ static routing for 10 & 20 network in routers

⇒ config t  
ip route 10.0.0.0 255.0.0.0 30.0.0.25  
ip route 20.0.0.0 255.0.0.0 30.0.0.25  
no shut

→ setting helper address

⇒ config t  
interface fastEthernet 0/0  
ip helper-address 10.0.0.1  
no shut

- Output - (in any PC)

Desktop → IP configuration → DHCP  
(dynamic IP address is assigned  
to all PCs by server).