

Week-5

Q-?

DHCP within LAN and Outside LAN

* Create topology

* In server IP address as 10.0.0.1

→ In services → DHCP → on

→ Set the default gateway as 10.0.0.25

~~create~~ → overwrite for pool "server pool"

with IP address 10.0.0.2

- Same

* Server pool 1

gateway → 10.0.0.25

Start IP address 20.0.0.2

add

check default gateway

* Server pool 2

Start IP address 40.0.0.2

add

In router 0:

• Set two networks IP address

→ config t

→ interface fastEthernet 0/0

→ IP address 10.0.0.25 255.0.0.0

→ no shut

(similarly for 20.0.0.25)

* Config t

→ interface fa 0/0

→ ip helper-address 10.0.0.1

→ no shut.

Static routing for 40 ip.

→ config t

→ ip route 40.0.0.0 255.0.0.0 30.0.0.3.

In router 1:

• Set IP address

→ config t

→ interface fa 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.

Default routing for router 10 & 20
Static

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 ↵

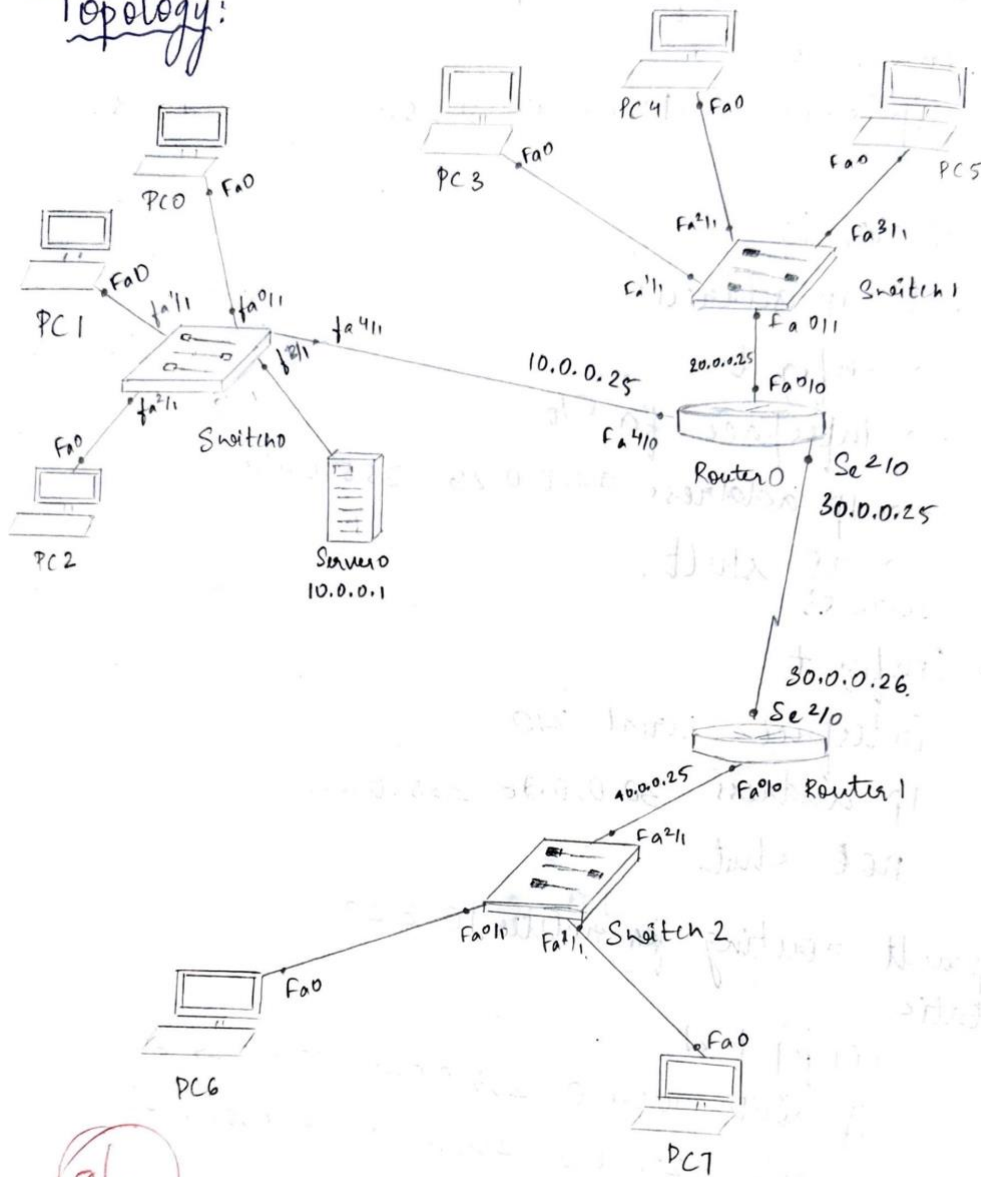
ip helper-address 10.0.0.1 ↵

no shut

Output: In any PC,

Desktop → IP configuration → enable DHCP
(Dynamic IP address is assigned
to all PC by server).

Topology:



9/10
17/7/23

Topology and Output:

