

Lab 5 - DHCP IN LAN [IBM18CS083]

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DHCP — 4 stages (DORA)

→ Discover

→ Offer

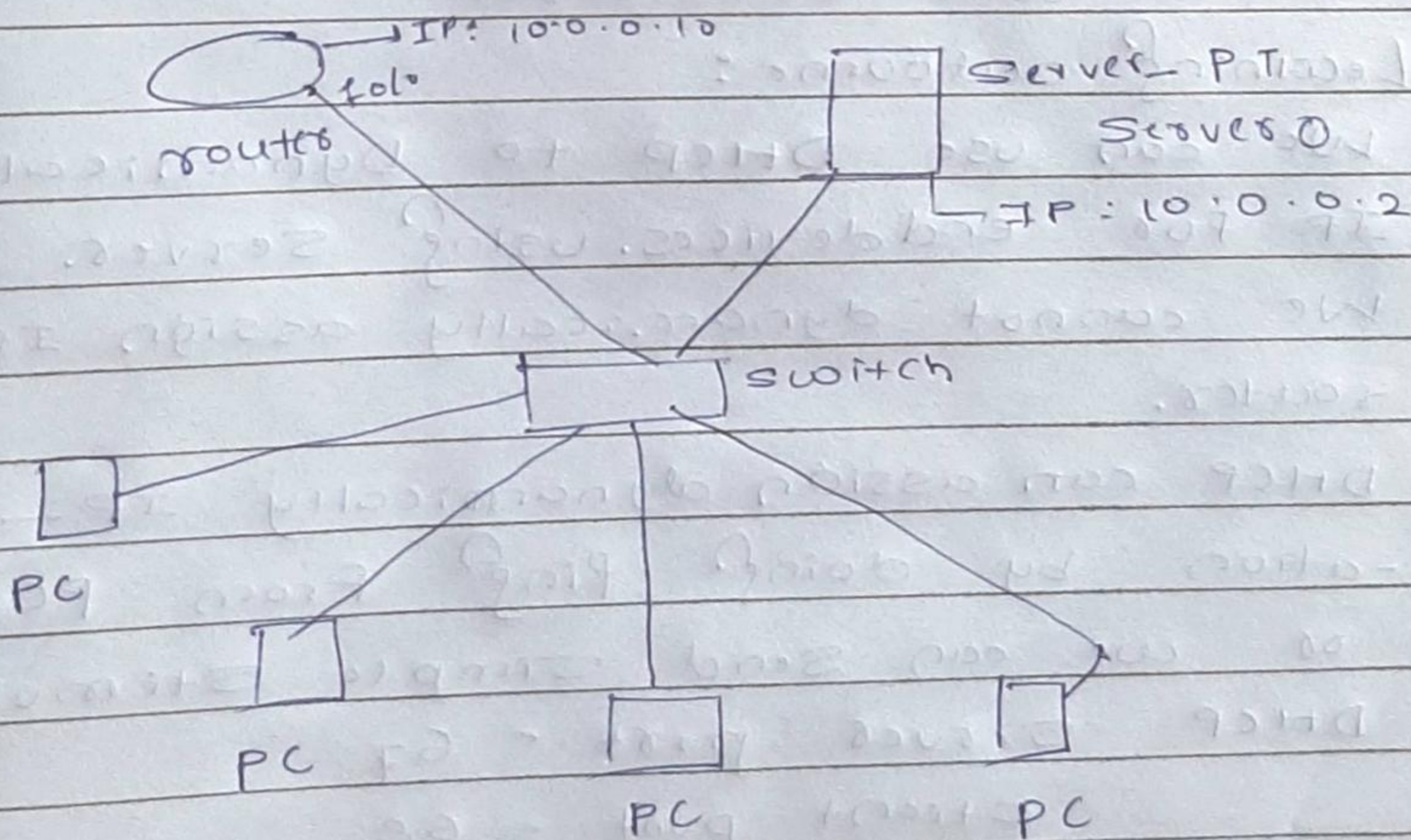
→ Request

→ Acknowledgment

→ use to get ip address dynamically

→ DHCP uses UDP as transport layer.

→ Server port (67), DHCP Client port (68)



Enable → Interface → IP address → Exit.
 ↙ config terminal

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Rohit

Configure Server :

IP : 10.0.0.2

Default Gateway : 10.0.0.1 (~~route~~)

DNS Server : 10.0.0.2 (~~IP~~)

Start IP : 10.0.0.0

Subnet mask : 255.0.0.0

maximum number of users : 512

TFTP Server : 10.0.0.2

→ Save configuration

After dynamic allocation of IP

PC0 : IP 10.0.0.1

PC1 : IP 10.0.0.3

PC2 : IP 10.0.0.4

PC3 : IP 10.0.0.5

After this ping from PC0 to PC3
it will be successful.

Learning outcome :

1. We can use DHCP to dynamically allocate IP for end devices using server.
2. We cannot dynamically assign IP for router.
3. DHCP can assign dynamically IP - confirmation by doing ping from PC0 to PC3 or we can send simple stimulation.
4. DHCP server port - 67
client port - 68