

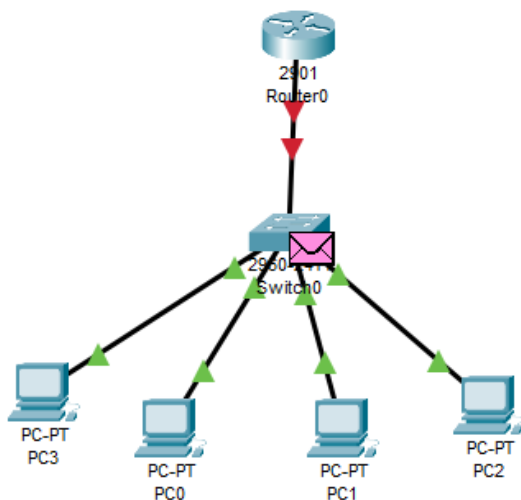
Networking Labs

Networking Lab - 1

Q1:- Start the packet tracer file included (Lab-5 Start), and have a look at the configuration.

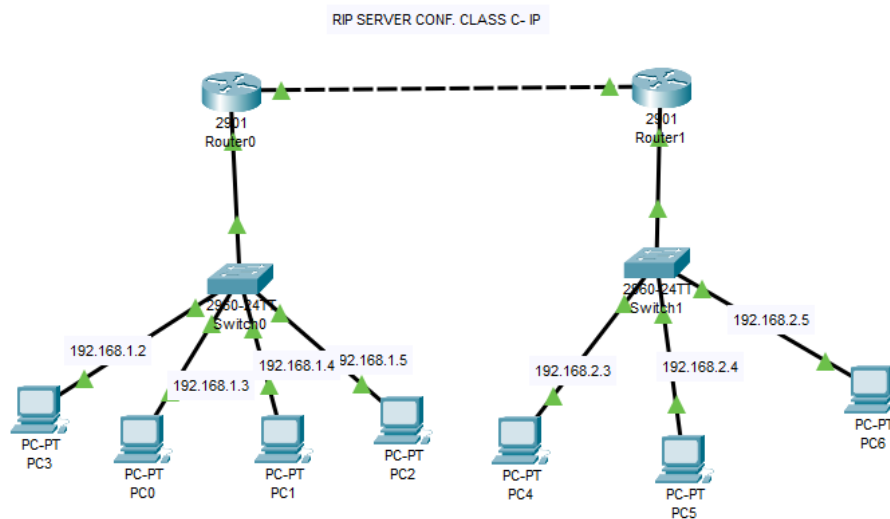
Q2:- Add a server and connect it to the switch using straight-through cable.

ANS-



Q3:- Configure the server and assign it a class C static ip address.

Ans.



Q4:- Verify by using "ipconfig" in command prompt

```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.3.2

Pinging 192.168.3.2 with 32 bytes of data:

Reply from 192.168.3.2: bytes=32 time<1ms TTL=126
Reply from 192.168.3.2: bytes=32 time<1ms TTL=126
Reply from 192.168.3.2: bytes=32 time=1ms TTL=126
Reply from 192.168.3.2: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

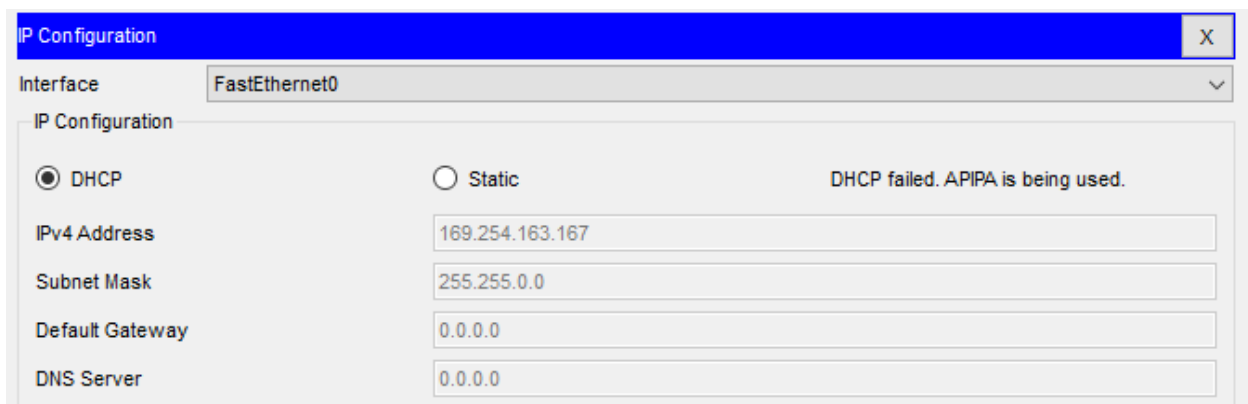
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

```

Ans.

Q5:- Go to PC#1 in Desktop and IP Configuration, turn off Static IP, and turn on DHCP server to pull an IP address automatically.



IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP failed. APIPA is being used.

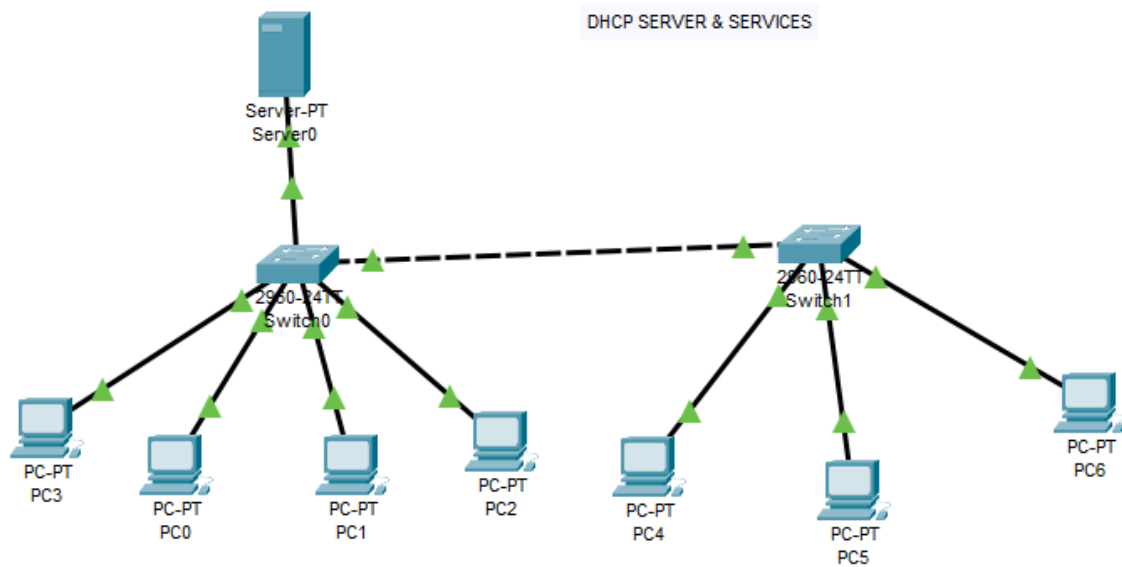
IPv4 Address: 169.254.163.167

Subnet Mask: 255.255.0.0

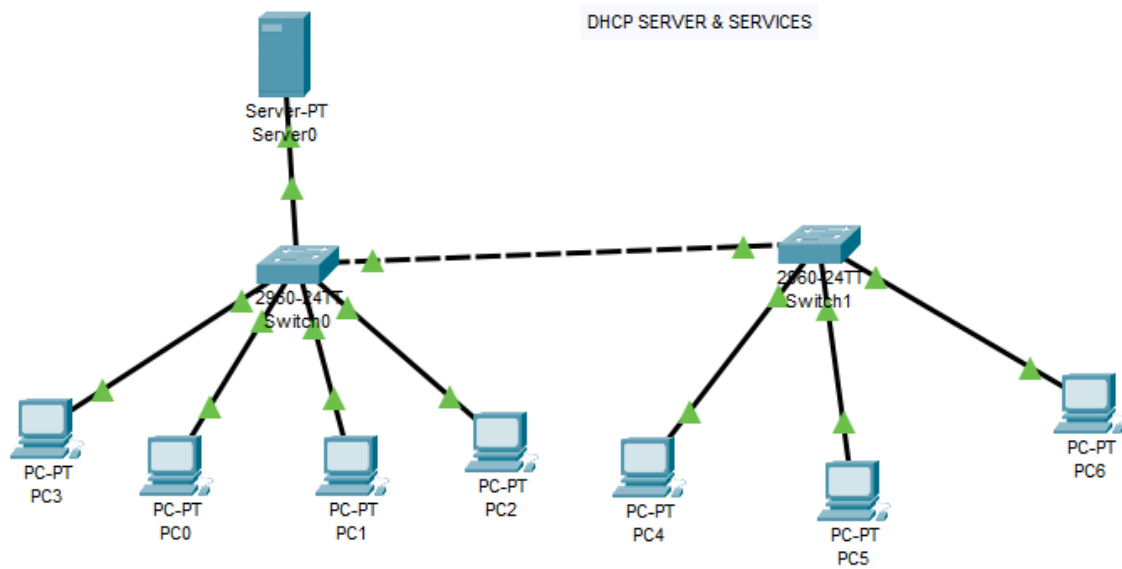
Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Q6:- Now go to the server, select Services and then DHCP



Q7:- Provide the required details known as DHCP Scope, and turn ON the DHCP server



Q8:- Go to command prompt of the PC which you want to update with new IP address.

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Q9:- Release the previous ip address using "ipconfig release", and then use "ipconfig renew".

```

C:\>ipconfig /release

IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: 0.0.0.0
DNS Server.....: 0.0.0.0

C:\>ipconfig /renew

IP Address.....: 192.168.1.2
Subnet Mask.....: 255.255.255.0
Default Gateway.....: 0.0.0.0
DNS Server.....: 0.0.0.0

```

Q10:- The PC will have the ip address in the DHCP defined range of ip addresses.

Interface	FastEthernet0			Service	<input checked="" type="radio"/> On	<input type="radio"/> Off
Pool Name	serverPool					
Default Gateway	0.0.0.0					
DNS Server	0.0.0.0					
Start IP Address :	192	168	1	0		
Subnet Mask:	255	255	255	0		
Maximum Number of Users :	512					
TFTP Server:	0.0.0.0					
WLC Address:	0.0.0.0					
Add		Save		Remove		

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	0.0.0.0	0.0.0.0	192.168....	255.255....	512	0.0.0.0	0.0.0.0

