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Roll No : 20P-0180

Section: BCS-5B

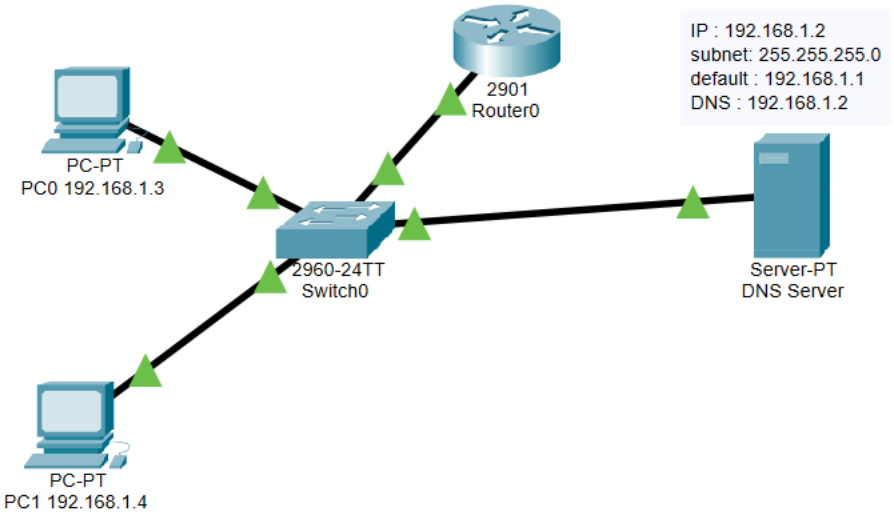
Course Name: Computer Networks LAB

Submitted to : Mam Hurmat Hidayat

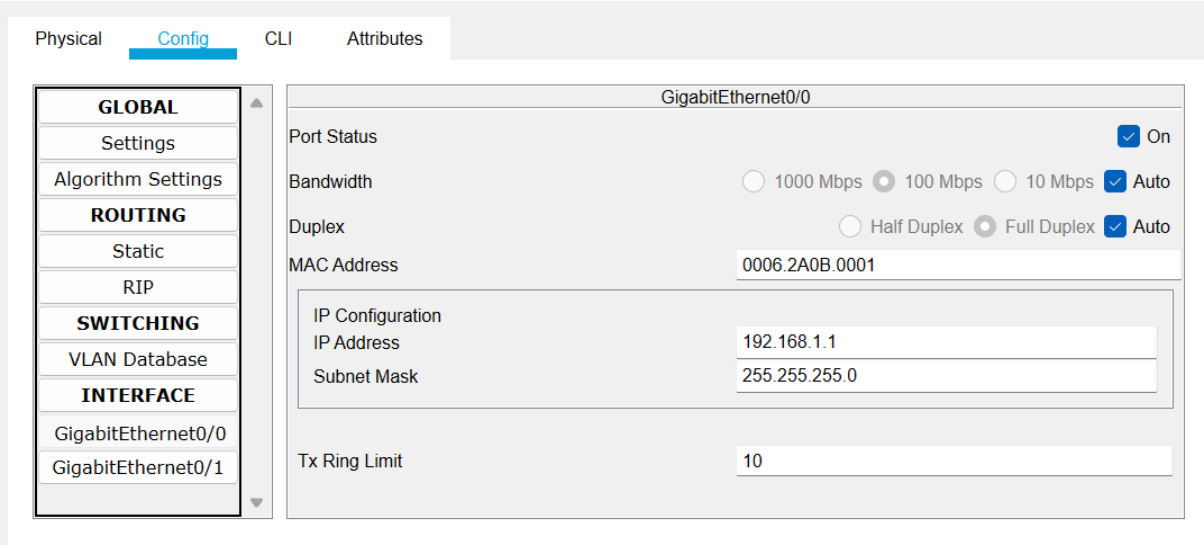
Submitted on : 9/13/2022

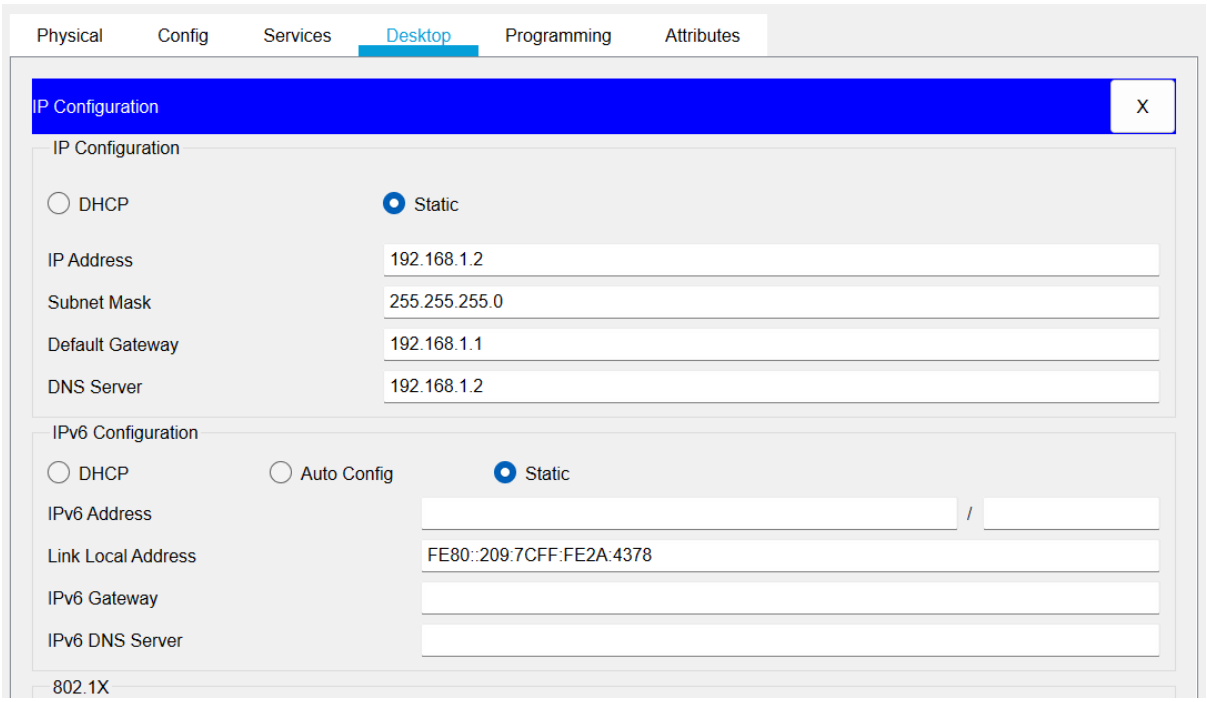
TASK 1: DNS Server Configuration

1)We will Build the network topology.

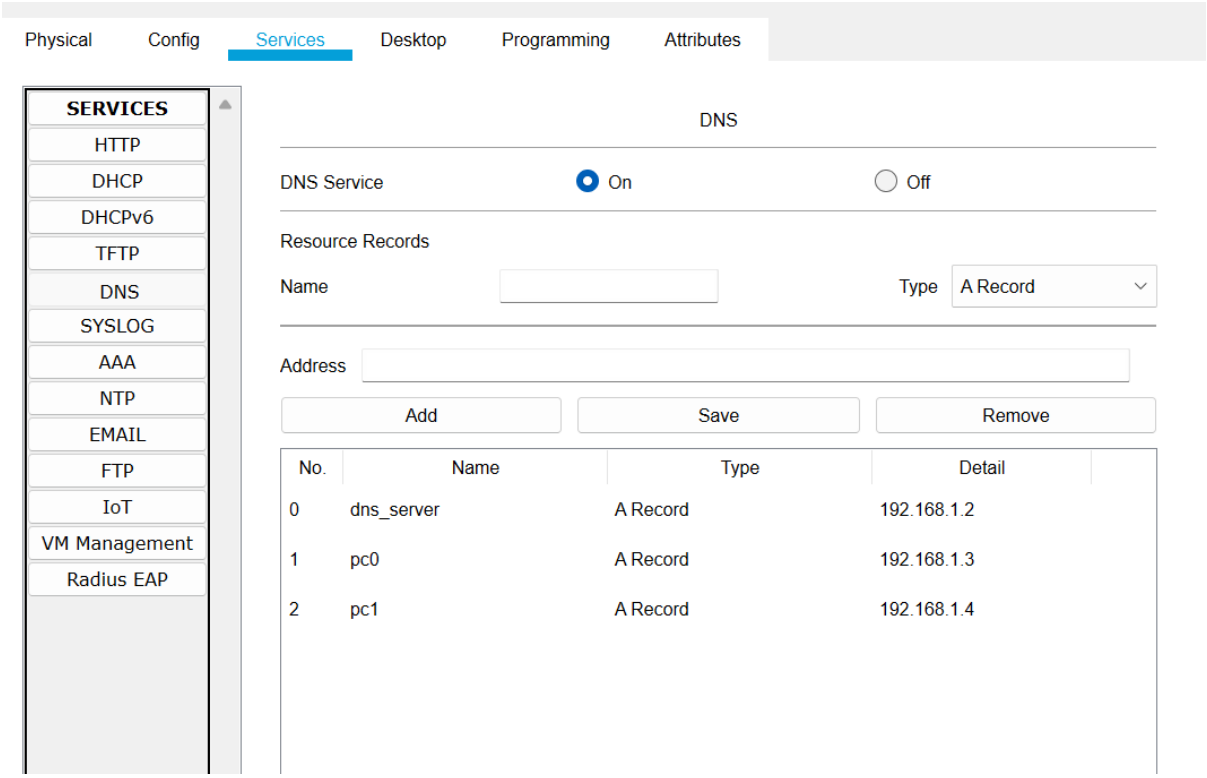


2)Configure static IP addresses on the PCs and the server.





3)Configure DNS service on the generic server. For this we will go to services and add domain name and ip of pcs.

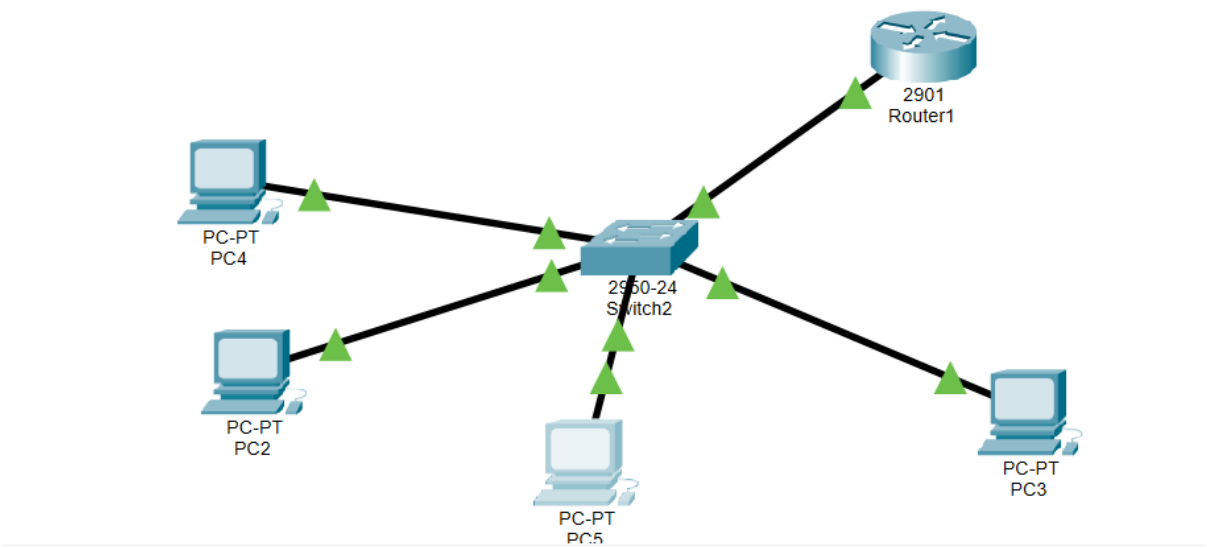


```
Packet Tracer PC Command Line 1.0
C:\>ping pc1

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

4)We will check the network by pinging pcs through there domain name.

TASK 2: Configuring DHCP server on a Router

1)We will Build the network topology.



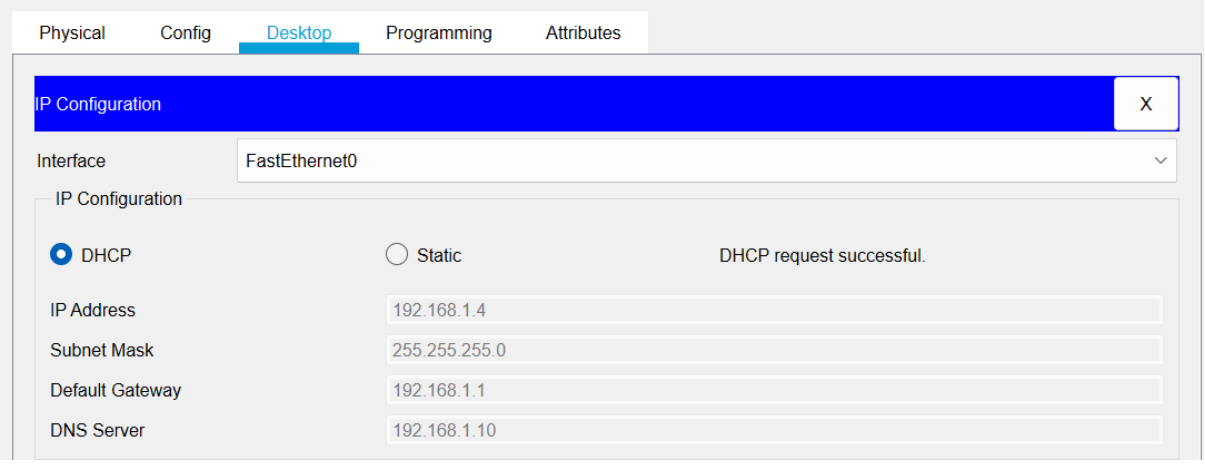
```
Router>enable
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
%Invalid interface type and number
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
```

Ctrl+F6 to exit CLI focus Copy Paste

2)We will configure router through CLI

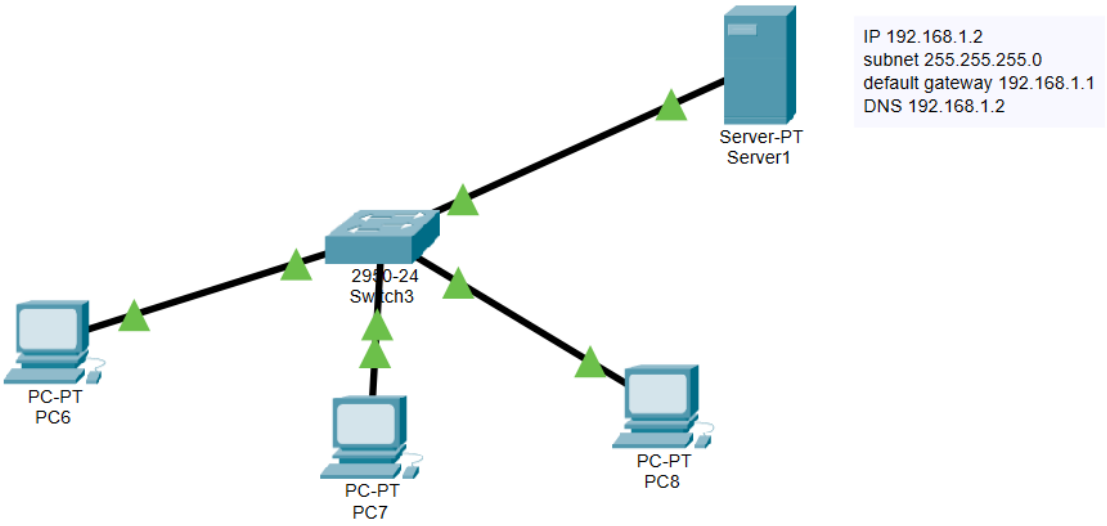
```
Router(config-if)#ex
Router(config)#ip dhcp pool p1
Router(dhcp-config)#network 192.168.1.1 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#dsn-server 192.168.1.10
                   ^
% Invalid input detected at '^' marker.

Router(dhcp-config)#dns-server 192.168.1.10
Router(dhcp-config)#ex
Router(config)#
```

3)We will go to every PC enable DHCP. Every PC should be able to obtain an IP address, default gateway and DNS server.

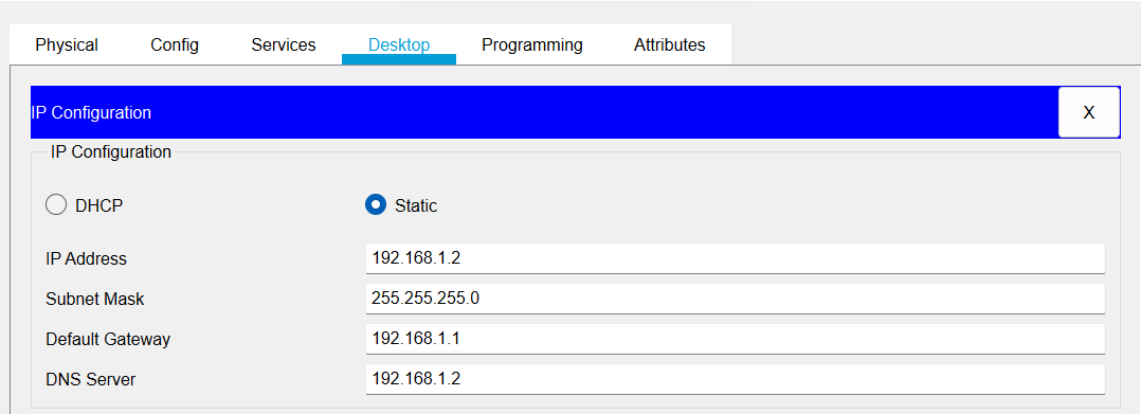


TASK 3: Configuring DHCP service on a generic server

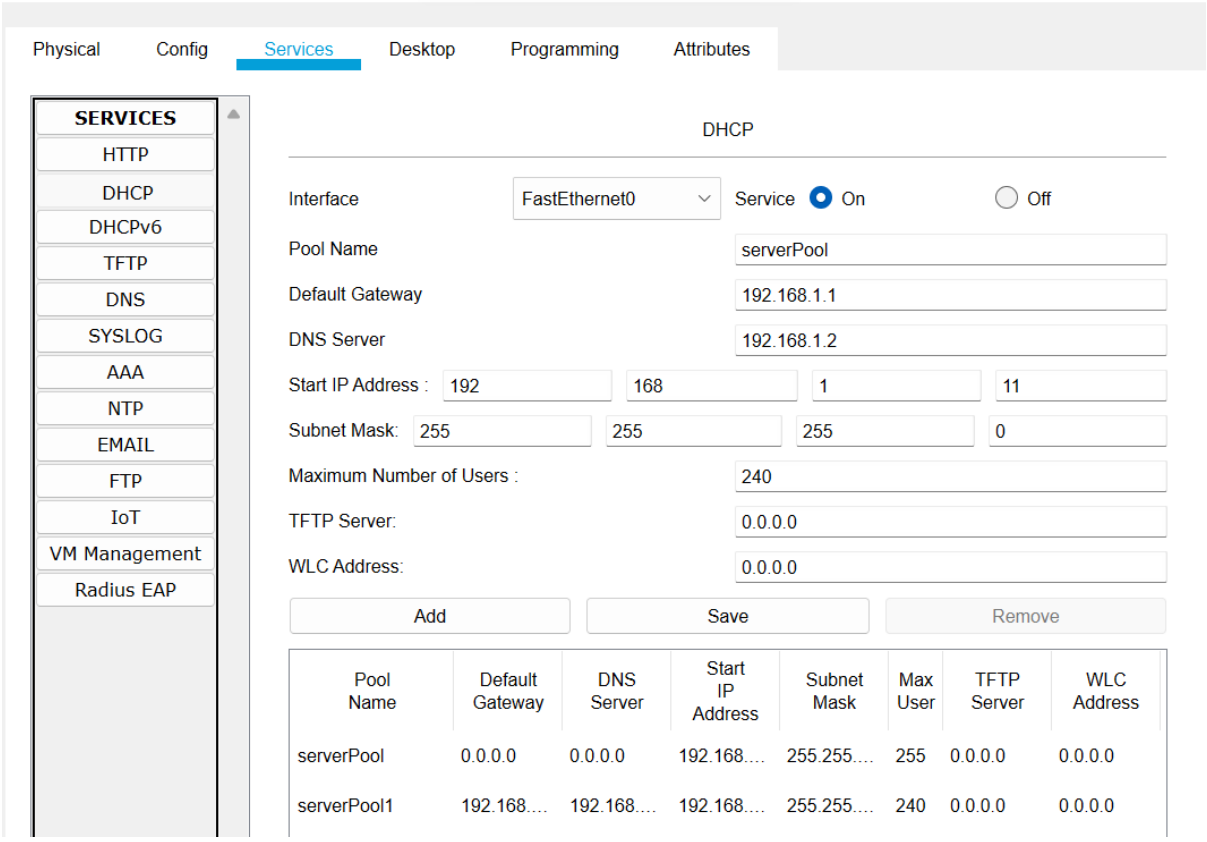
1)We will Build the network topology.



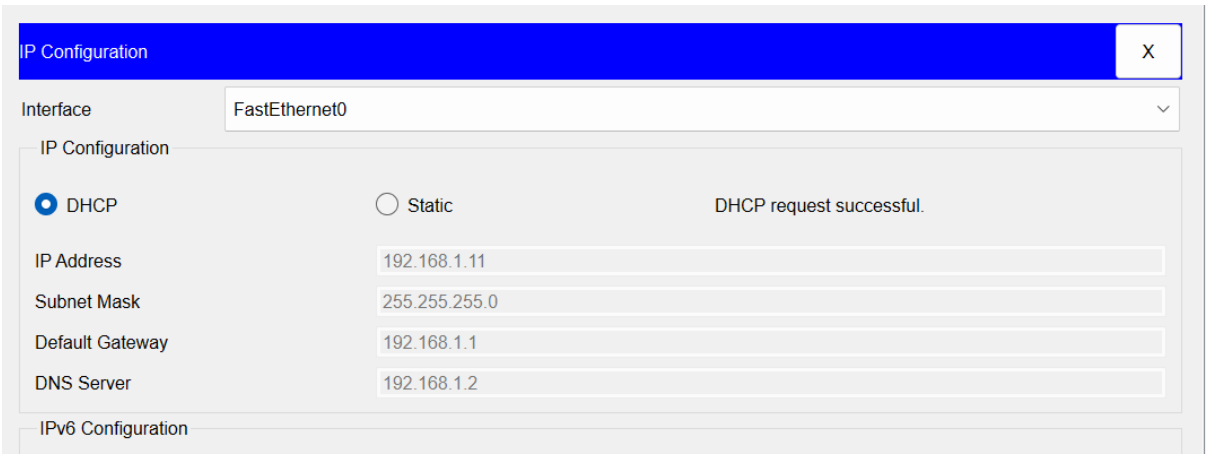
2)Then Configure static IP address on the server.



3)Now we will configure DHCP service on the generic server.

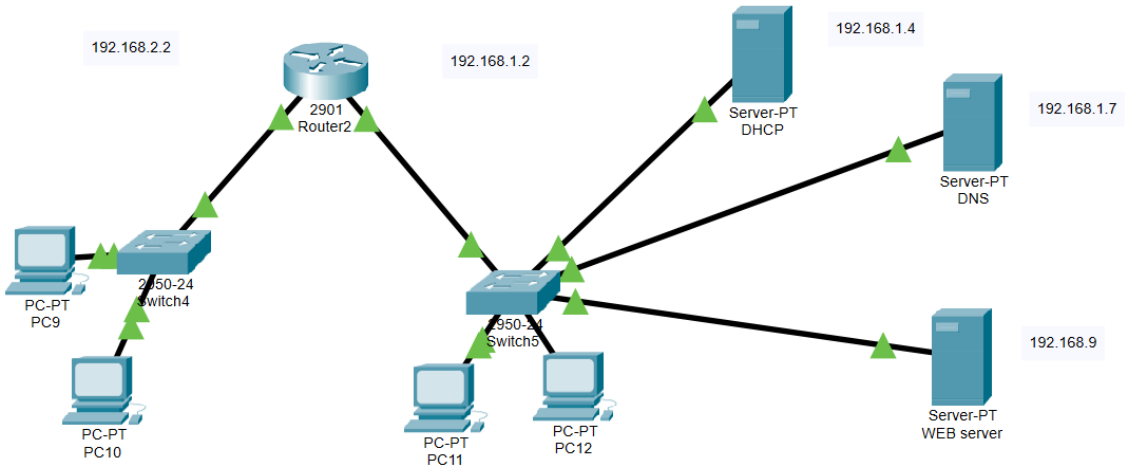


4)We will go to every PC enable DHCP. Every PC should be able to obtain an IP address, default gateway and DNS server.



TASK 4: Configuring DHCP, DNS and Web Server configuration in cisco packet tracer.

1)We will Build the network topology.



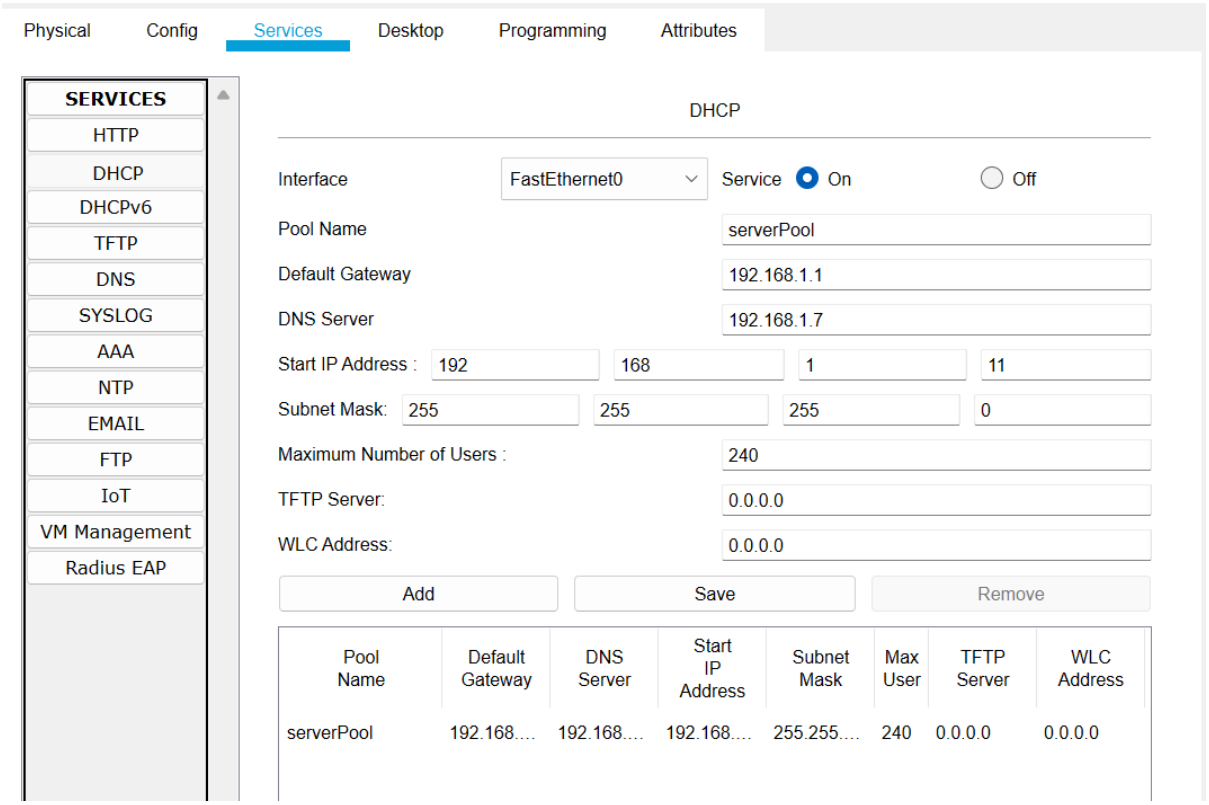
2)We will configure router through CLI

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip dhcp pool P1
Router(dhcp-config)#default-router 192.168.2.1
Router(dhcp-config)#dns-server 192.168.1.10
Router(dhcp-config)#dns-server 192.168.1.7
Router(dhcp-config)#
```

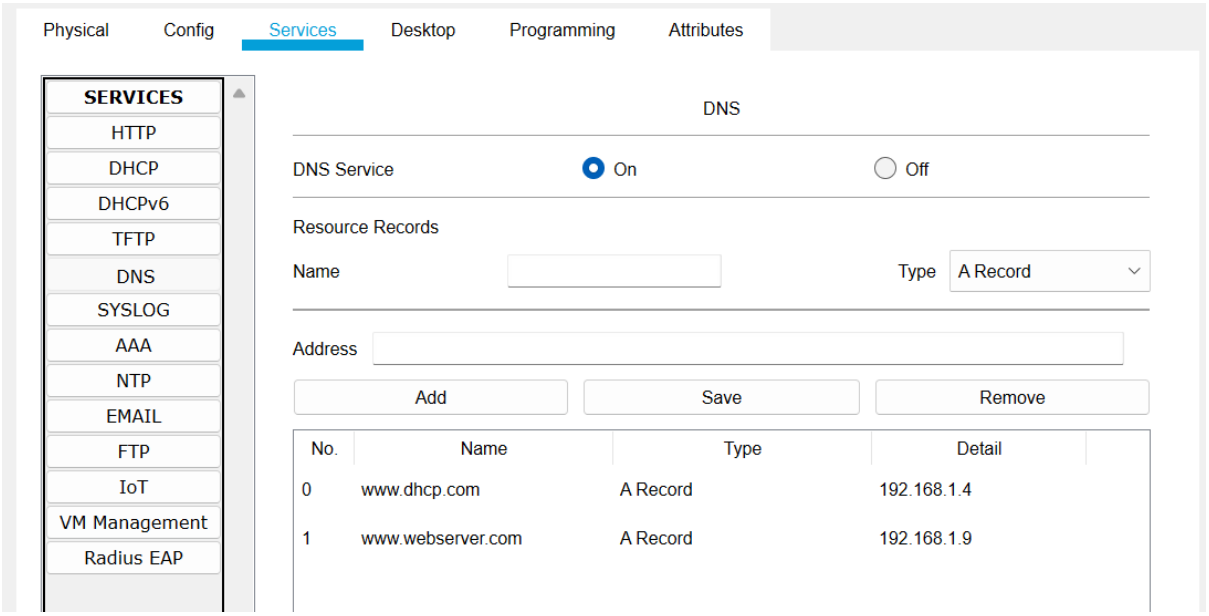
Ctrl+F6 to exit CLI focus

Copy Paste

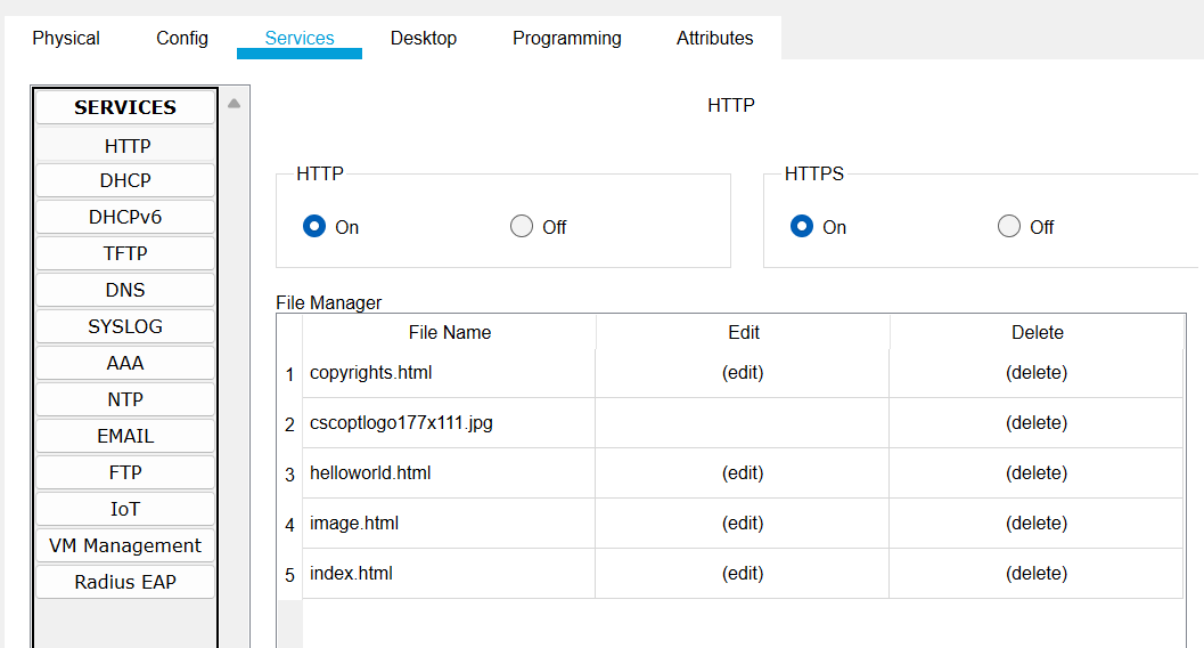
3)Now we will configure DHCP service on the generic server.



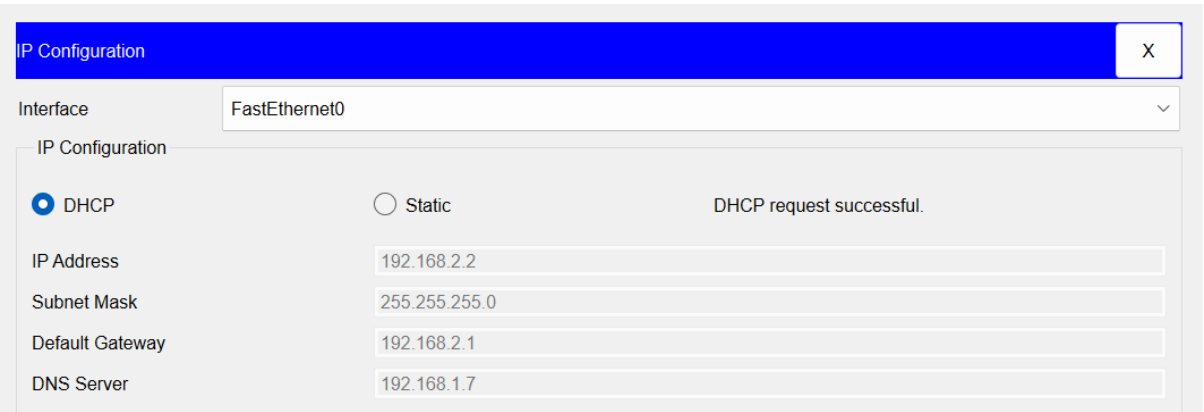
4)Configure DNS service on the generic server. For this we will go to services and add domain name and ip of pcs.



5)Now we will Edit the Index .html and update it.



6) We will go to every PC enable DHCP. Every PC should be able to obtain an IP address, default gateway and DNS server.



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