P20-0457
Abdul Rafay Ather
TASK -5
Section 5A

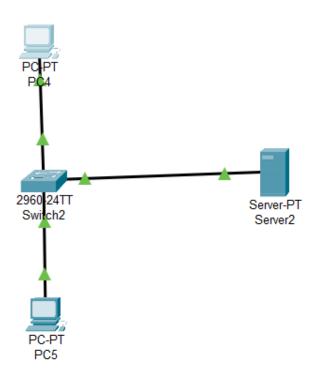


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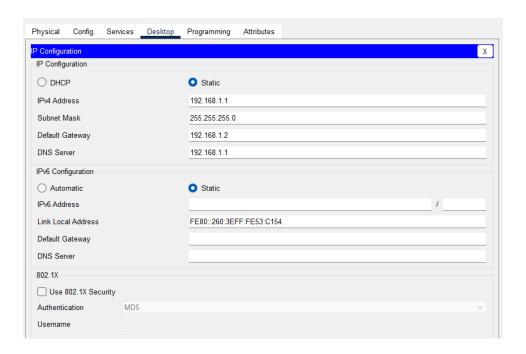
Qno-1

Experiment 1: DNS Server Configuration in Packet Tracer

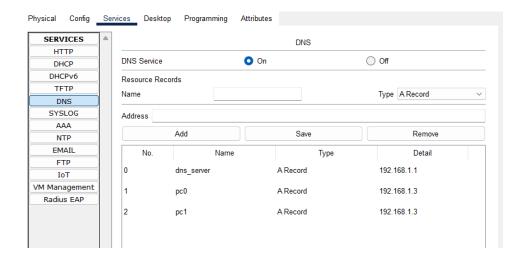
• Set up a network topology in Packet Tracer that includes a DNS server, client devices, and a local network.



• Configure the DNS server with a static IP address and assign a domain name to the server.



• Configure the client devices to use the DNS server for name resolution.



• Verify the DNS resolution of domain names to IP addresses and vice versa.

```
Cisco Packet Tracer SERVER Command Line 1.0
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<lms TTL=128

Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.4

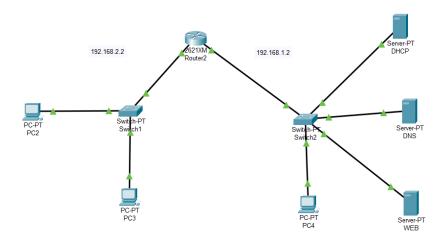
Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<lms TTL=128
Reply from 192.168.1.4: bytes=32 time<l
```

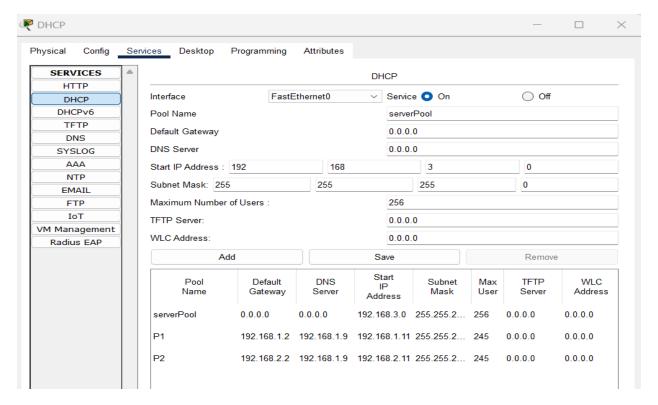
TASK-2

Experiment 2: Design, label and configure the following topology in cisco packet tracer

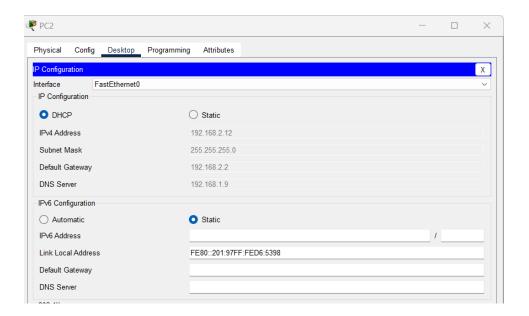
• Set up a network topology in Packet Tracer



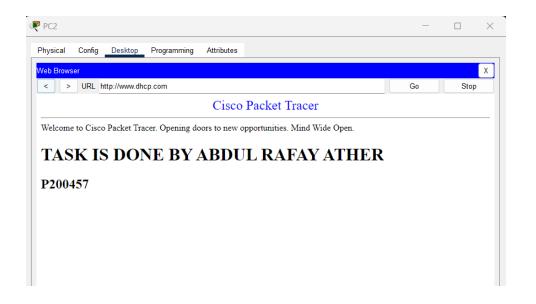
• Configure a generic server as centralized DHCP server to provide IP addresses to Network 192.168.1.0 /24 and 192.168.2.0/24

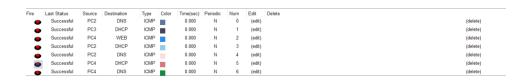


• Configure the client devices to use the DNS server for name resolution.



• Validate that the DNS resolution process correctly translates domain names into IP addresses for the web server.





```
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=255
Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.9
Pinging 192.168.1.9 with 32 bytes of data:
Reply from 192.168.1.9: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.1.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 192.168.1.7
Pinging 192.168.1.7 with 32 bytes of data:
Reply from 192.168.1.7: bytes=32 time<1ms TTL=127
Reply from 192.168.1.7: bytes=32 time<1ms TTL=127
Reply from 192.168.1.7: bytes=32 time<1ms TTL=127
Reply from 192.168.1.7: bytes=32 time=1ms TTL=127
Ping statistics for 192.168.1.7:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Done, Tested Successfully!