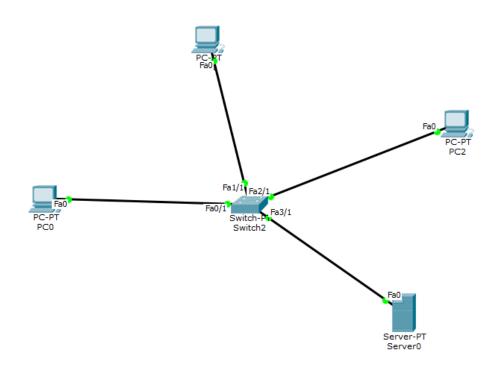
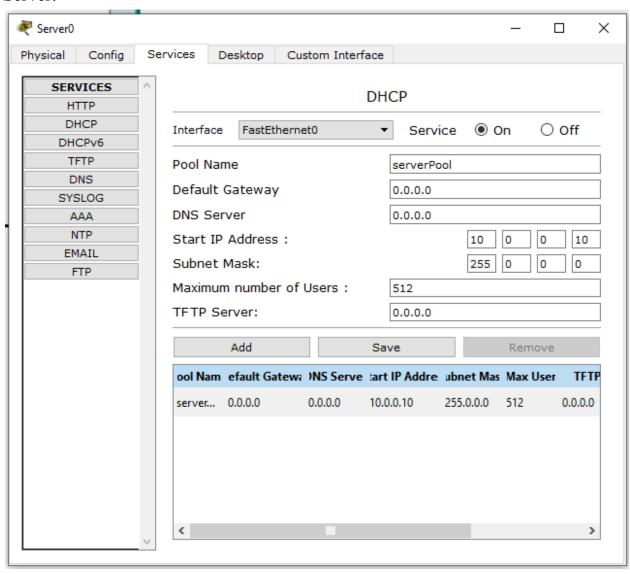
Title: Configure DHCP within a LAN and outside LAN.

a)Within LAN

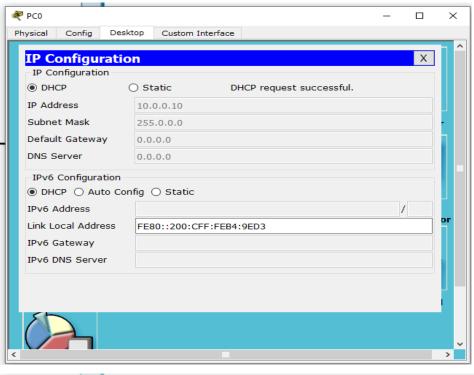
Topology:

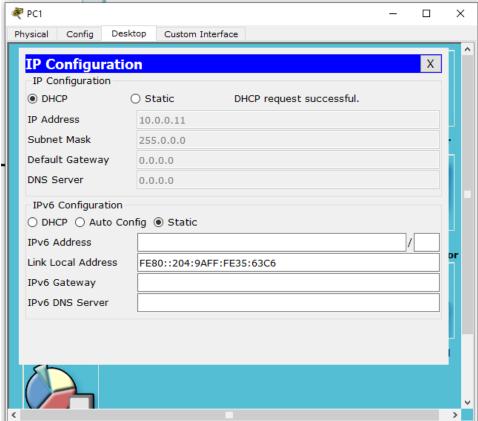


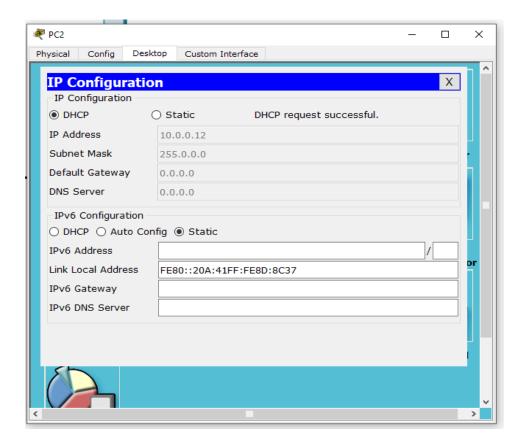
Server:



Obtaining IP:



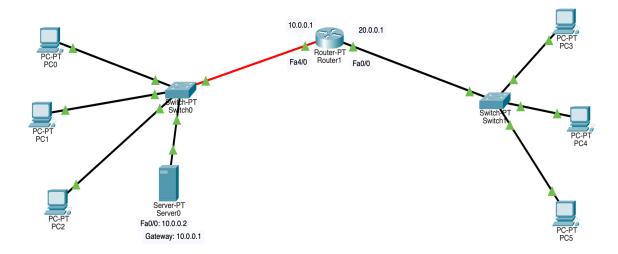




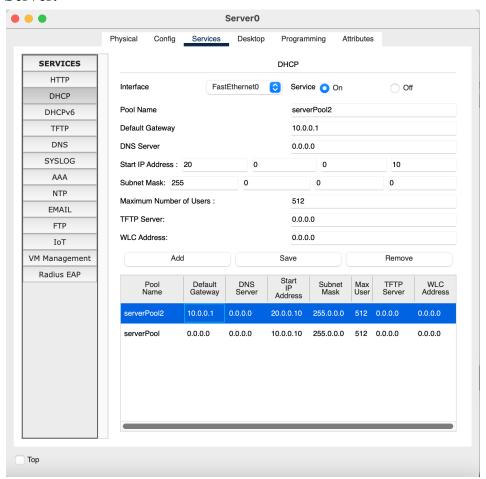
b)Outside LAN

I. Single Router

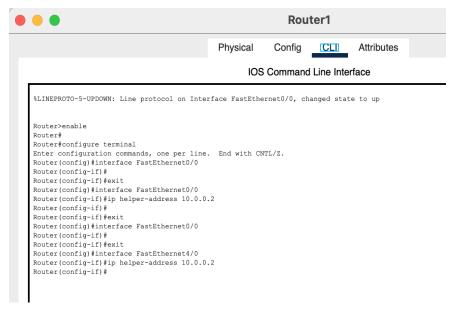
Topology:



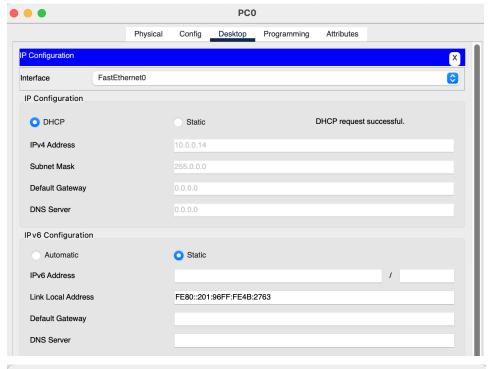
Server:

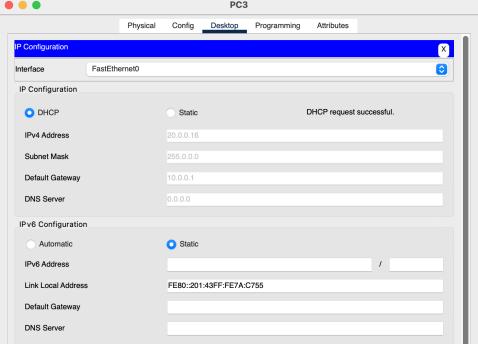


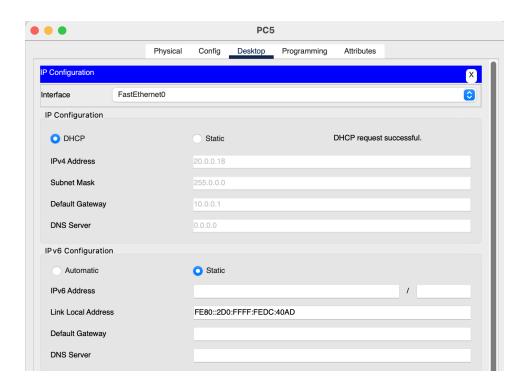
Router:



Obtaining IP:

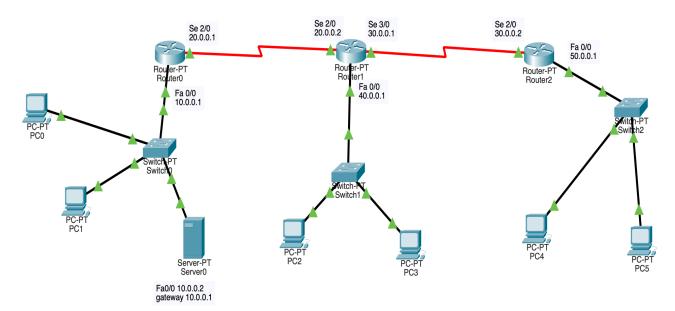




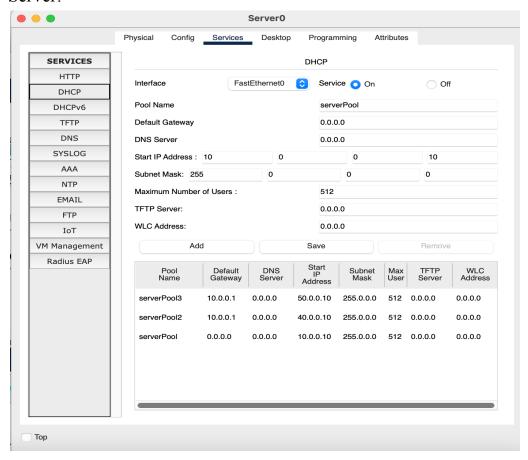


II. Multiple Routers

Topology:



Server:



Router: setting IP route

```
Router9show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

NI - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

El - OSPF external type 1, N2 - OSPF NSSA external type 2

El - OSPF external type 1, N2 - OSPF NSSA external type 2

El - Codes external type 1, N2 - OSPF NSSA external type 2

El - Codes external type 1, N2 - OSPF NSSA external type 2

El - Codes external type 1, N2 - OSPF NSSA external type 2

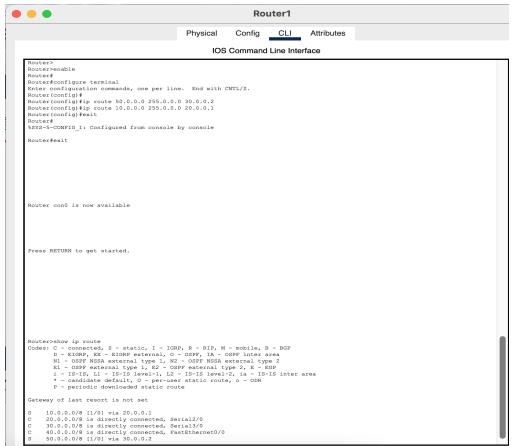
El - Codes external type 1, N2 - OSPF NSSA external type 2

El - OSPF external type 1, N2 - OSPF NSSA external type 2

El - OSPF NSSA external type 2, N2 - OSPF NSSA external type 2

El - OSPF NSSA external type 2, N2 - OSPF NSSA external type 2

El - OSPF NSSA external type 2, N2 - OSPF NSSA external type 2, N2 - OSPF NSSA external type 2, N2 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2, N2 - OSPF NSSA external type
```



```
Router configuration commands, one per line. End with CNTL/2.

Router(config)#
Router con0 is now available

Router con0 is now available

Press RETURN to get started.

Router con0 is now available

Router con0 is now available

Press RETURN to get started.

Router con0 is now available

Router con0 is now available

Press RETURN to get started.

Router con0 is now available

Press RETURN to get started.

Router con0 is now available

Router con0 is now available

Press RETURN to get started.

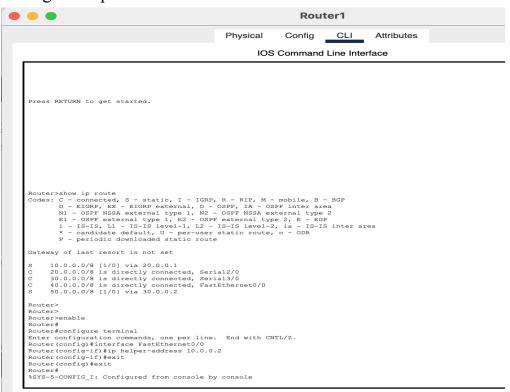
Router con0 is now available

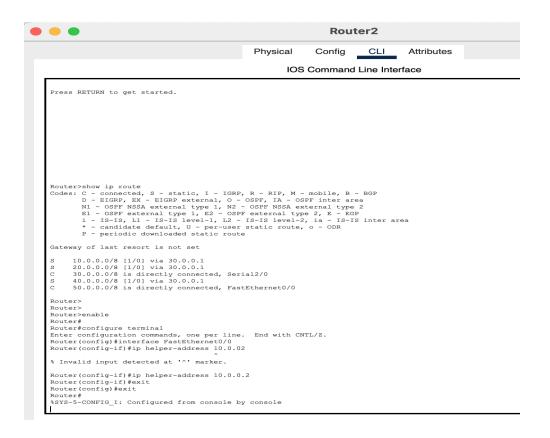
Press RETURN to get started.

Router con0 is now available

Rou
```

Setting IP helper address-





Obtaining IP:

