LAB

Servers

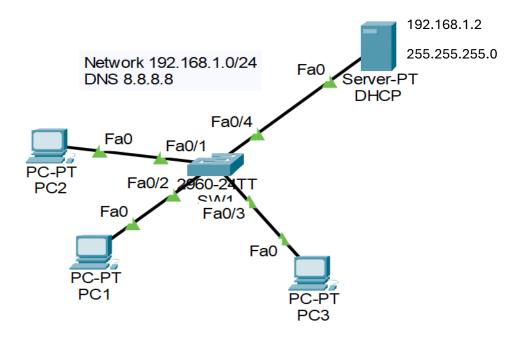
Network

Network Engineer: - Ahmed Abou_Elmaged Shallan Allam

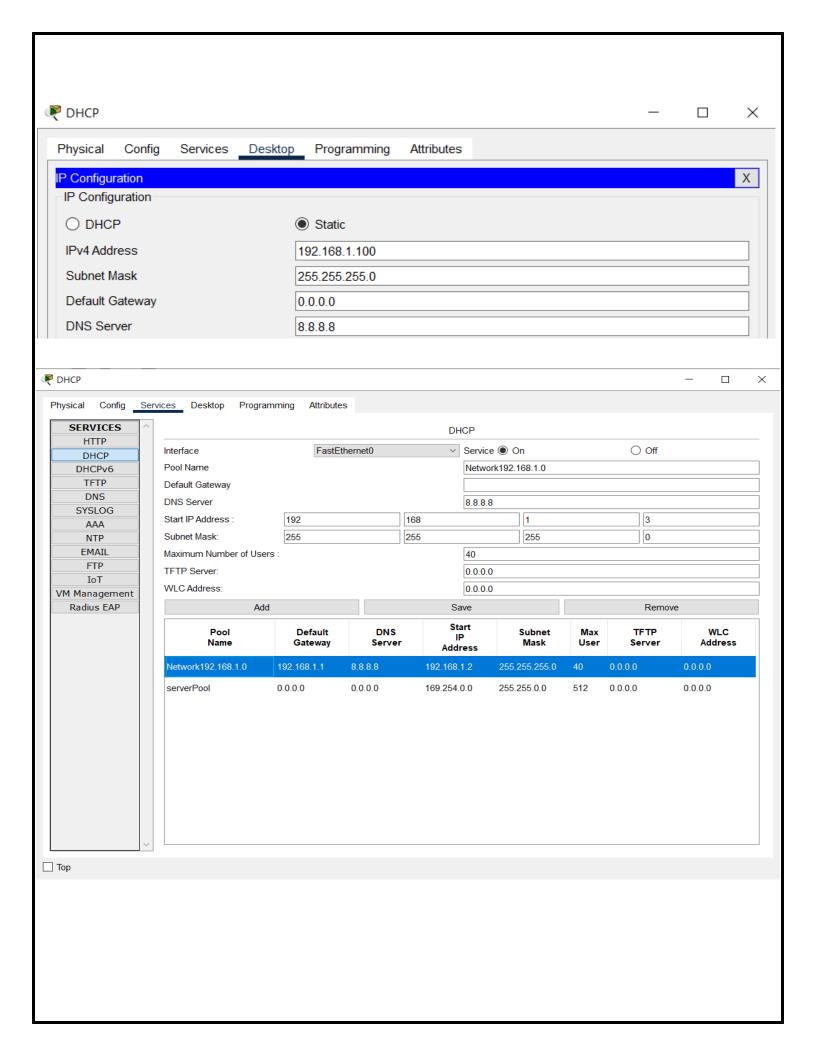
1-DHCP

 How to create a protocol DHCP on a server and distribute the IP automatically in PCs.

LAB1



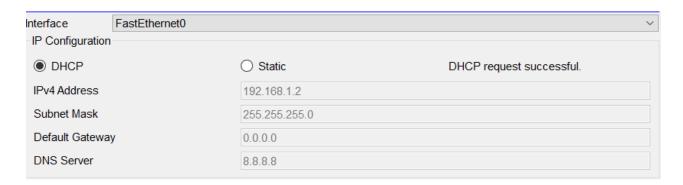
- How configurations Server DHCP?
 - Enter DHCP server.
 - Choose Services.
 - O Choose Desktop and Enter IP and mask to server.
 - Choose DHCP.
 - o Choose DHCP is ON.
 - Create a pool Name.
 - Add Gateway and DNS server.
 - o Add Start IP address.
 - o Add subnet mask.
 - o Max of Users.
 - Enter Your Device and choose the DHCP.



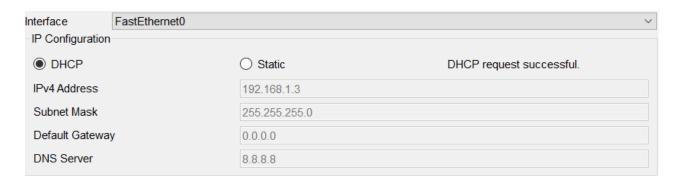
✓ PC1

Interface FastEthernet0 IP Configuration				/
DHCP		○ Static	DHCP request successful.	
IPv4 Address		192.168.1.1		
Subnet Mask		255.255.255.0		
Default Gatewa	у	0.0.0.0		
DNS Server		8.8.8.8		

✓ PC2

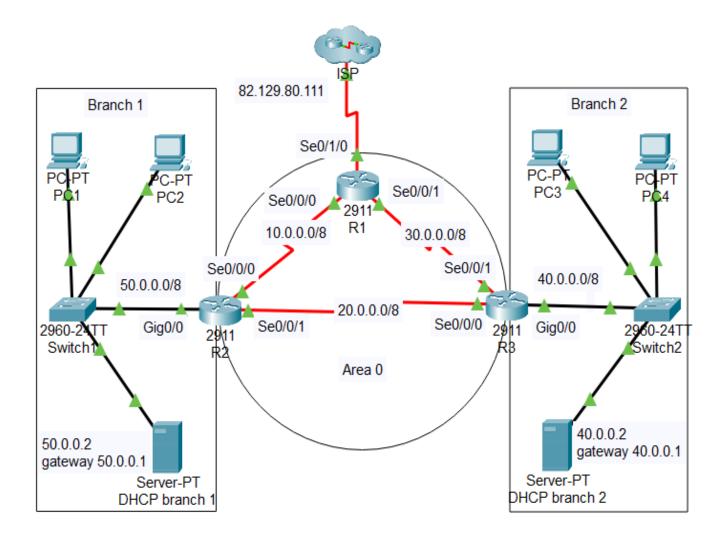


✓ PC3

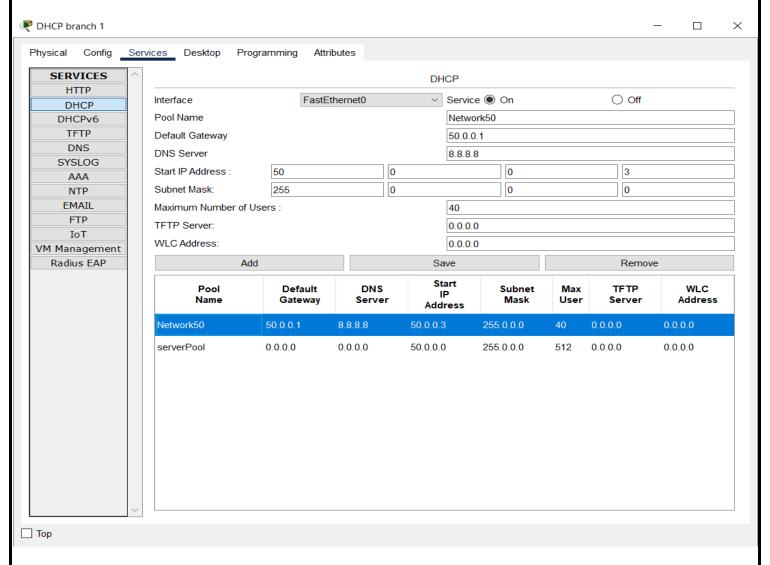


LAB2

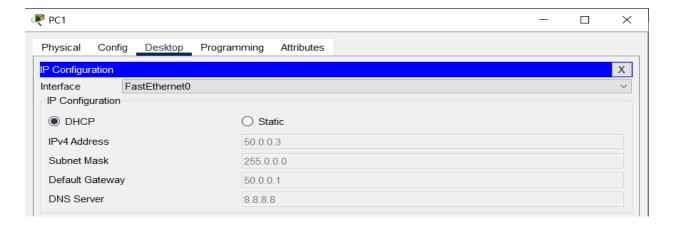
- Small Company contain Two Branches Branch 1, Branch 2, Each
 Branch contain one dhcp server distribute Ips to Pcs in the branch.
- Using configuration OSPF protocol in Routers.



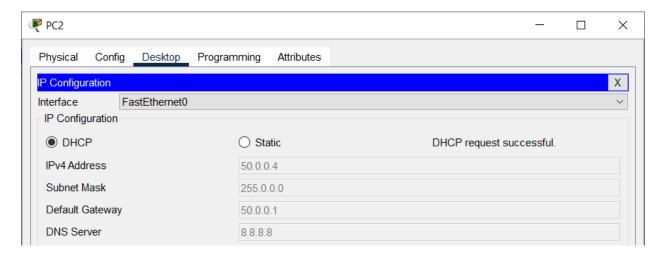
Branch 1



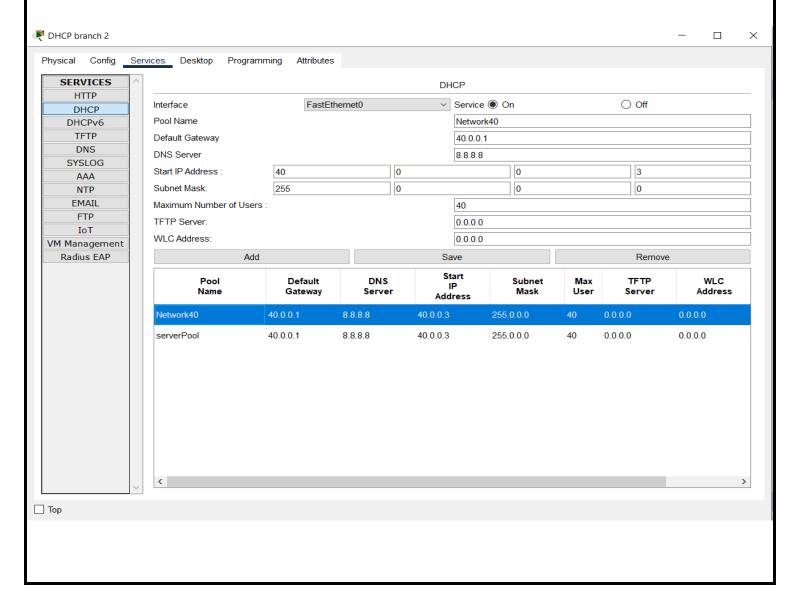
PC₁



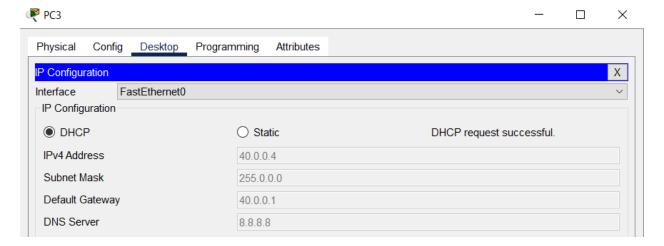
PC₂



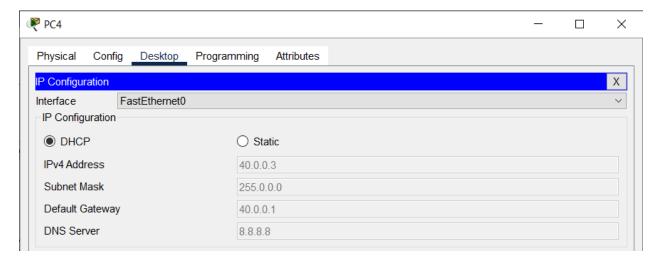
Branch 2



PC3



PC4



Ping PC3 to PC1

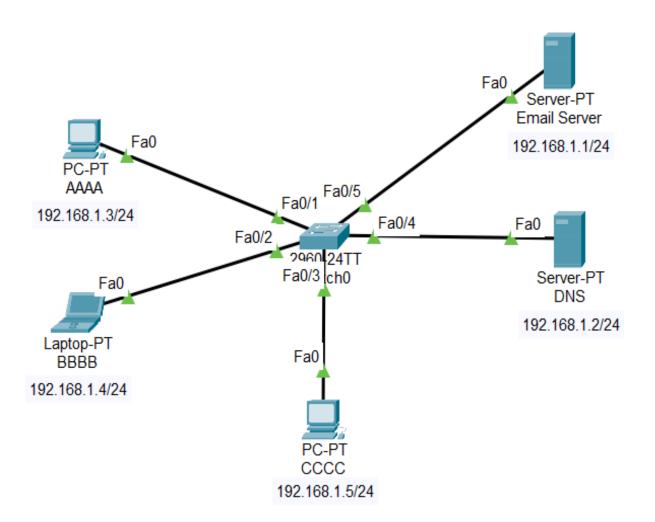
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 50.0.0.1

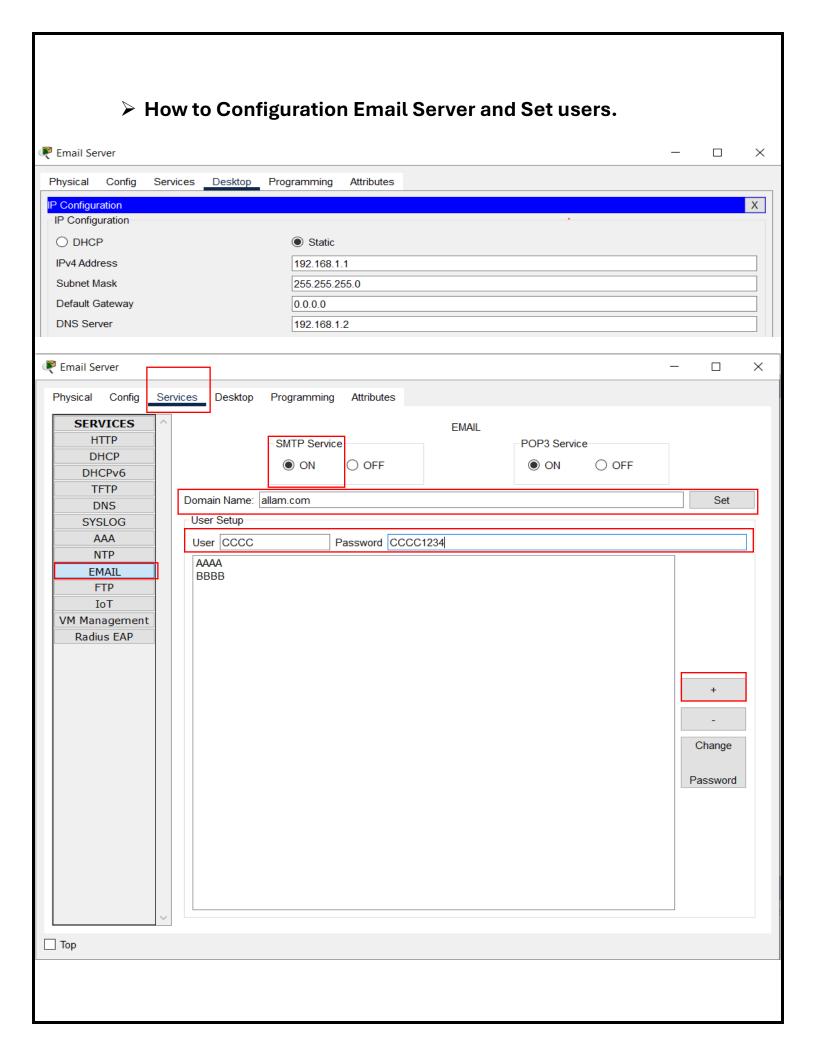
Pinging 50.0.0.1 with 32 bytes of data:

Reply from 50.0.0.1: bytes=32 time=27ms TTL=254
Reply from 50.0.0.1: bytes=32 time=2ms TTL=254
Reply from 50.0.0.1: bytes=32 time=2ms TTL=254
Reply from 50.0.0.1: bytes=32 time=1ms TTL=254
```

2-Email Server

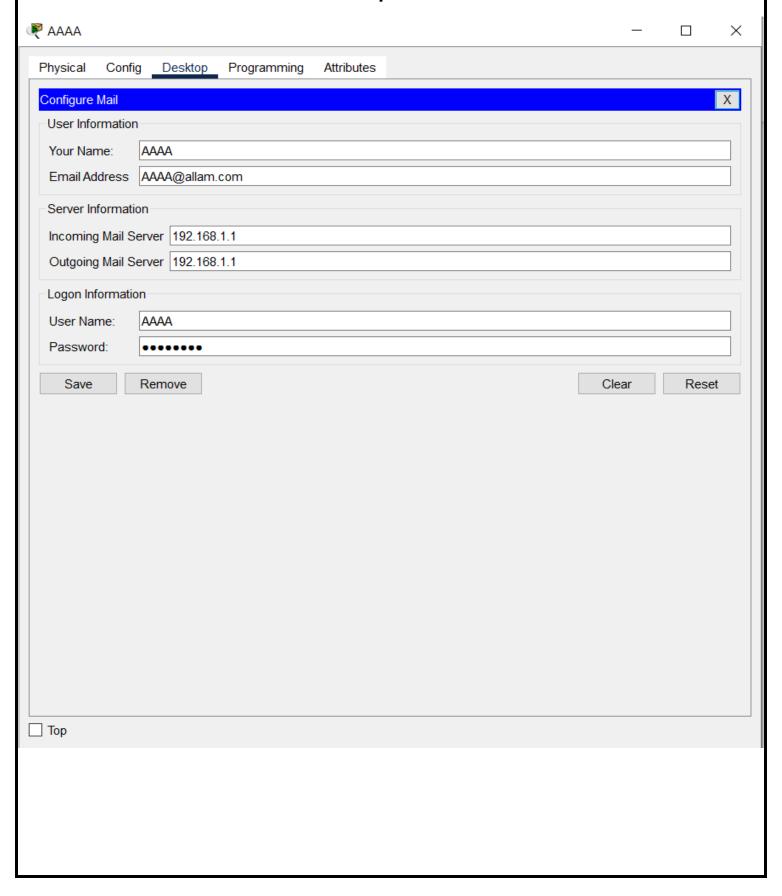
- Using Email Server and DNS Create Emails to Users is PCs.
 - Client1 is AAAA
 - Client2 is BBBB
 - o Client3 is CCCC





> How to Configuration DNS Server and connect to **Email Server?** P DNS \times Desktop Attributes Physical Config Services Programming IP Configuration Х IP Configuration Static O DHCP IPv4 Address 192.168.1.2 Subnet Mask 255.255.255.0 **Default Gateway** 0.0.0.0 **DNS Server** 192.168.1.2 NS DNS \times Physical Config Services Desktop Programming **SERVICES** DNS On Off **DNS Service** DHCP DHCPv6 Resource Records TFTP Type A Record Name allam.com DNS Address 192.168.1.1 SYSLOG AAA Add Save Remove NTP No. Detail Name Type **EMAIL** allam.com A Record 192.168.1.1 FTP VM Management Radius EAP DNS Cache □ Тор

➤ How to Set Emails in PCs and send messages?✓ PC1 is AAAA Enter Desktop and choose Email.



√ PC2 is BBBB **₹** BBBB X Physical Config Desktop Programming Attributes Configure Mail Х User Information Your Name: BBBB Email Address BBBB@allam.com Server Information Incoming Mail Server 192.168.1.1 Outgoing Mail Server 192.168.1.1 Logon Information User Name: BBBB Password: ••••• Save Remove Clear Reset □ Тор

✓ PC3 is CCCC **№** CCCC Х Physical Config Desktop Programming Attributes Configure Mail Χ User Information Your Name: CCCC Email Address | CCCC@allam.com Server Information Incoming Mail Server 192.168.1.1 Outgoing Mail Server 192.168.1.1 Logon Information cccc User Name: Password: ••••• Remove Clear Reset Save Тор

Testing

