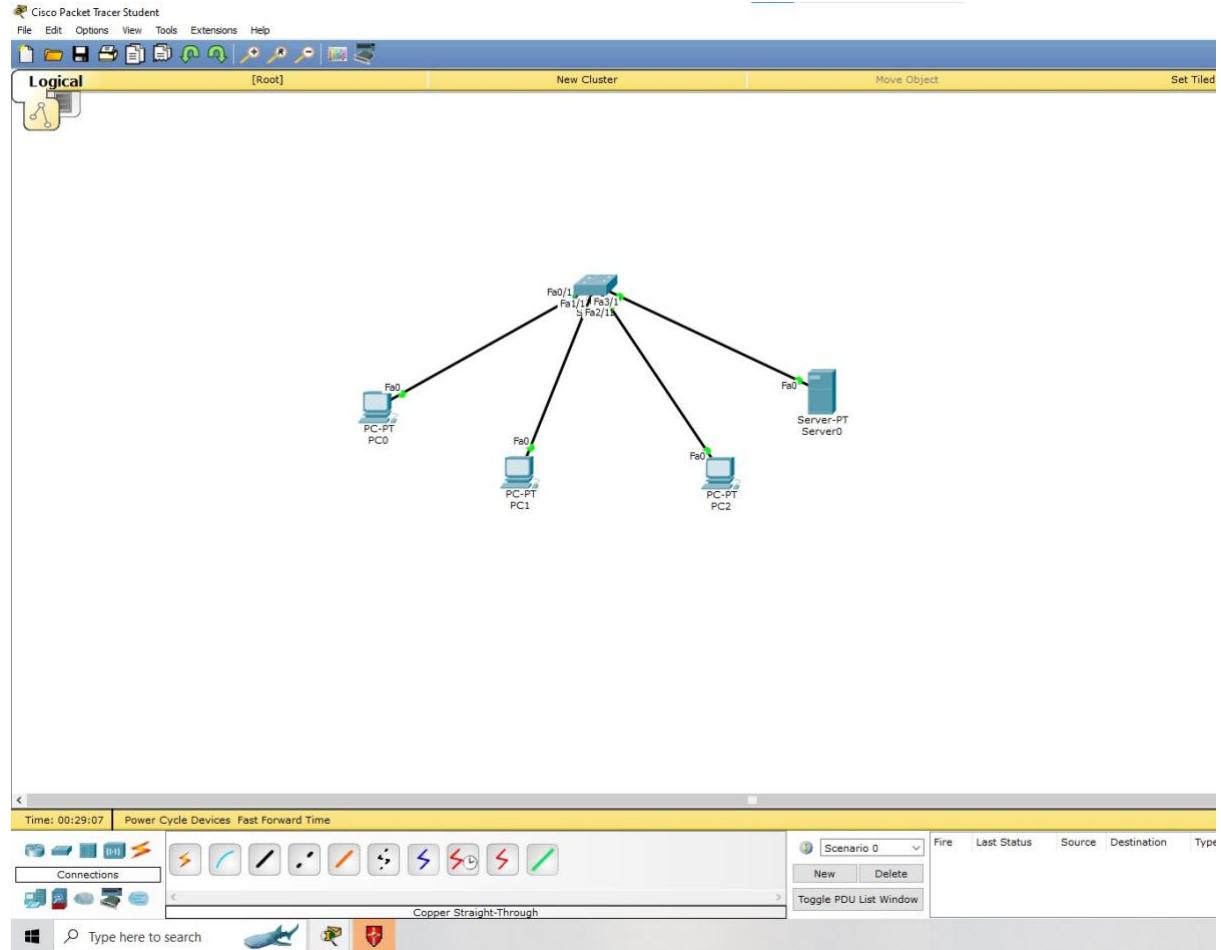
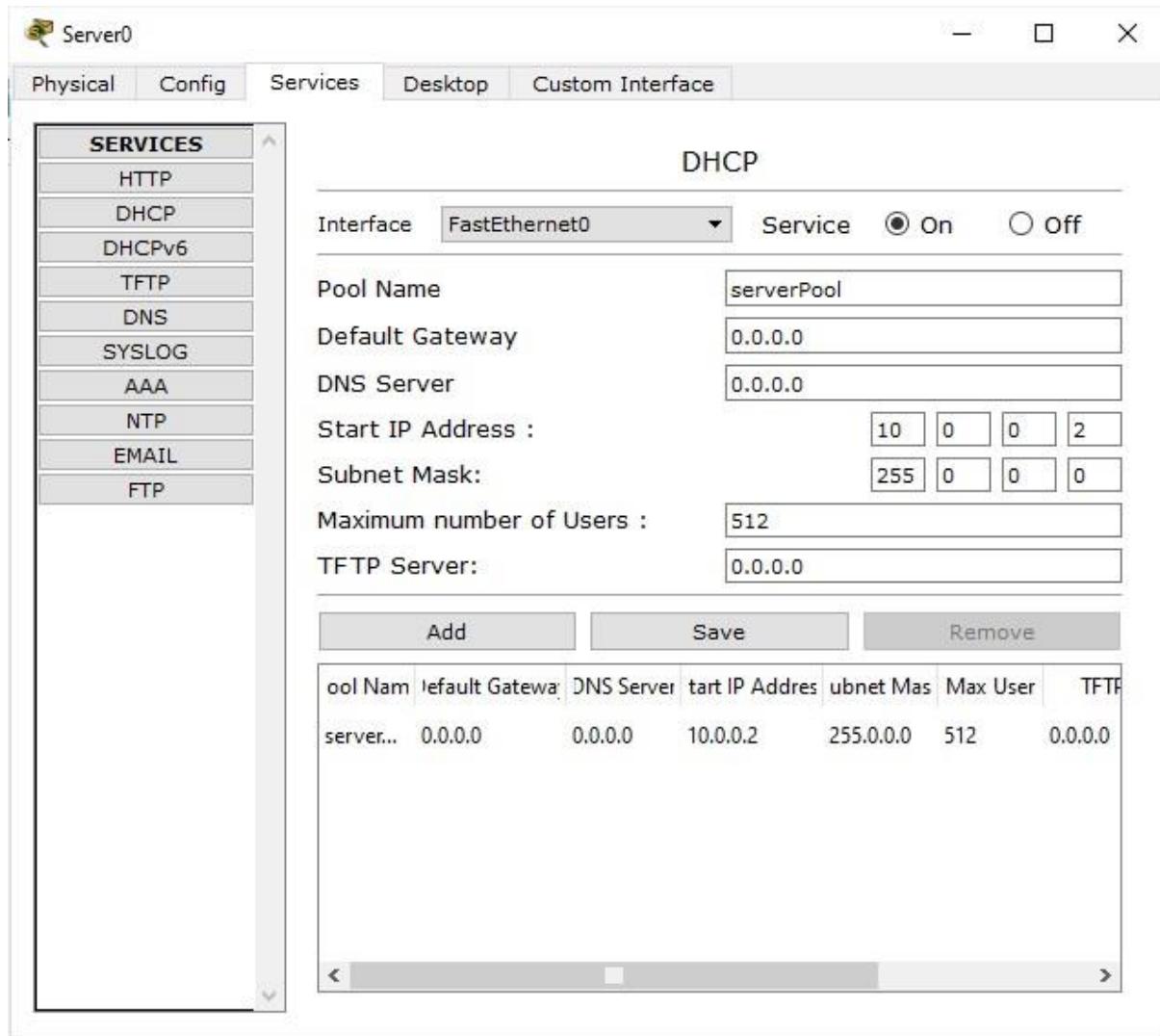


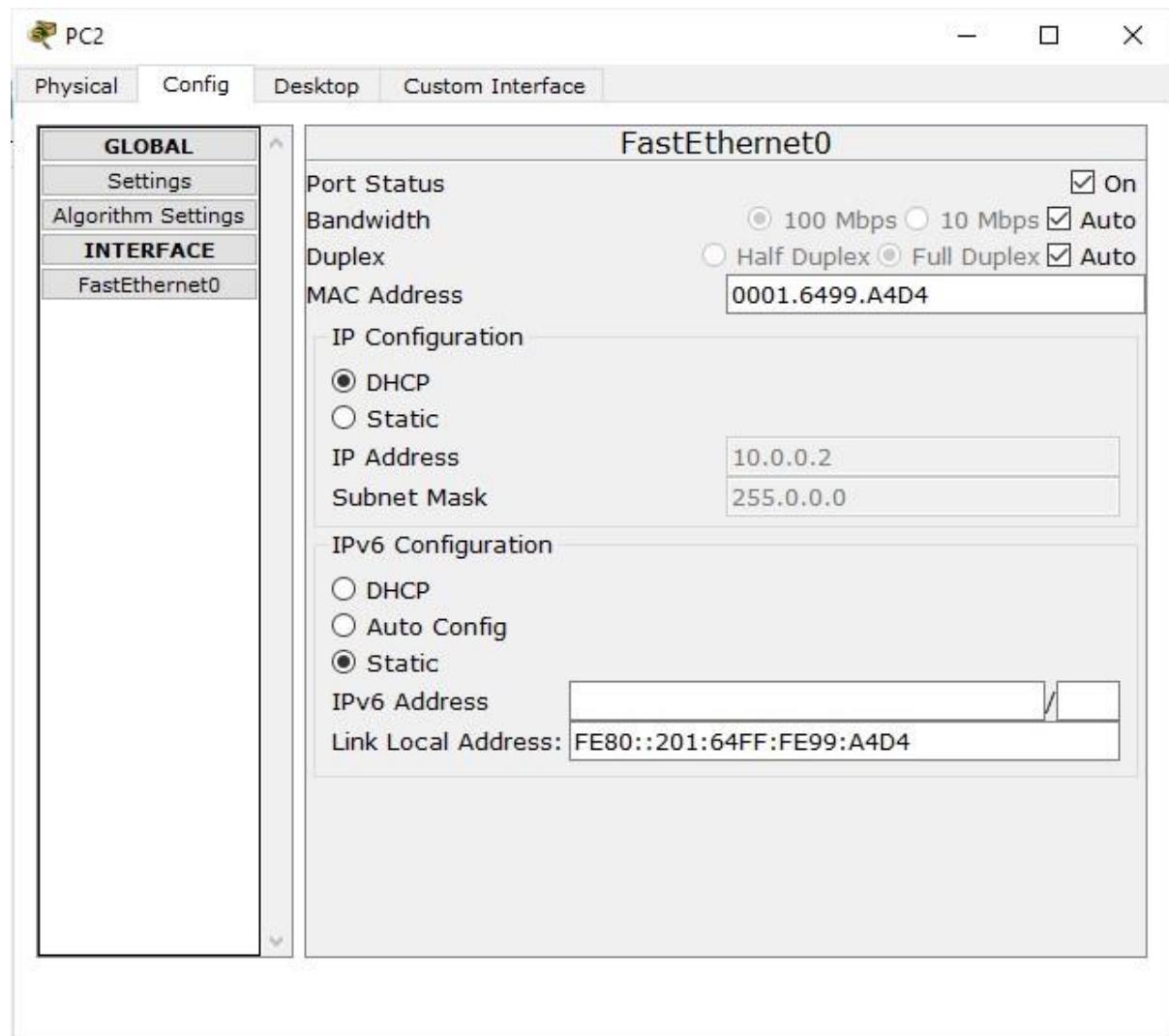
CN LAB 4

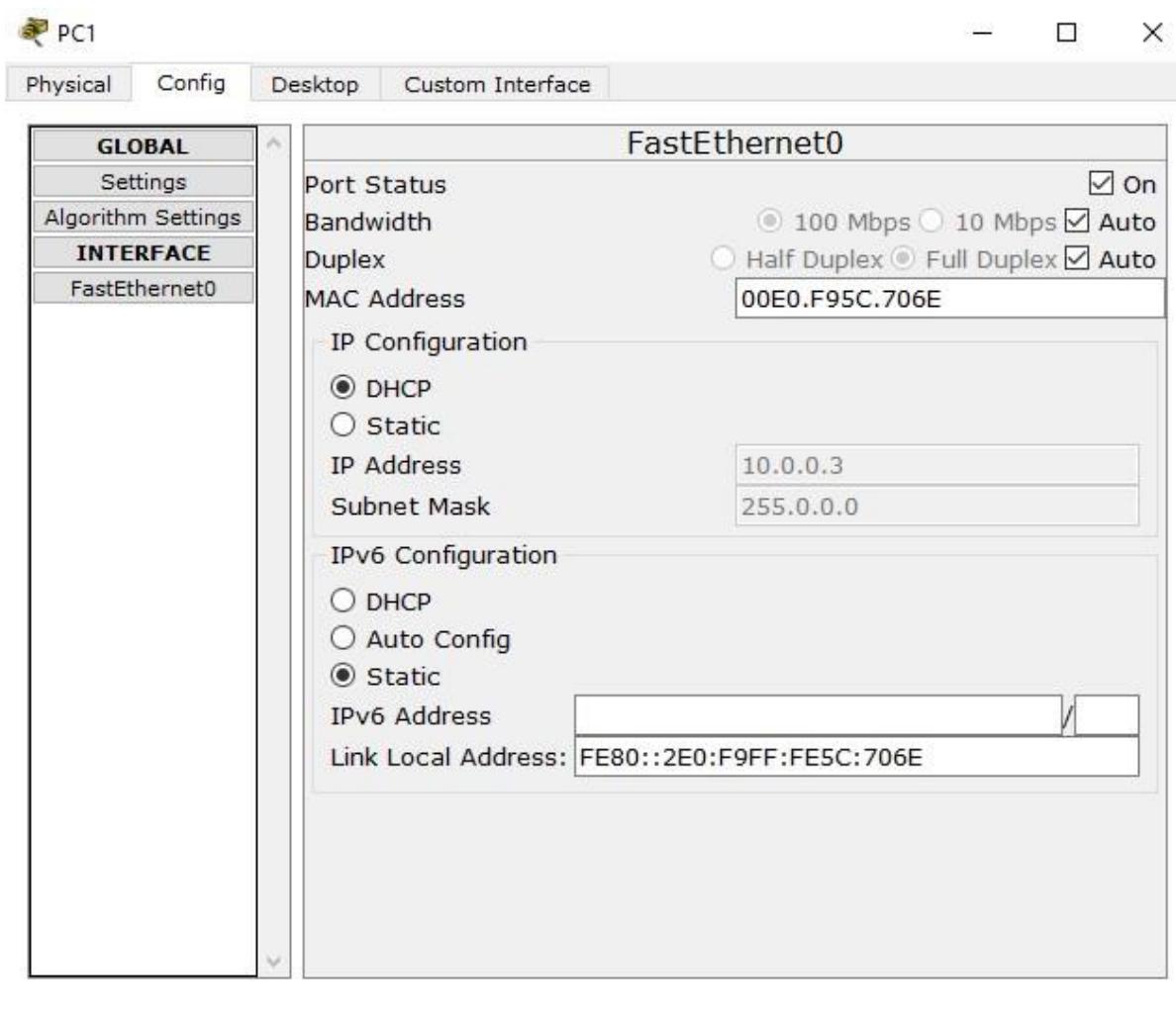
AIM: Configure DHCP within a LAN and outside LAN.

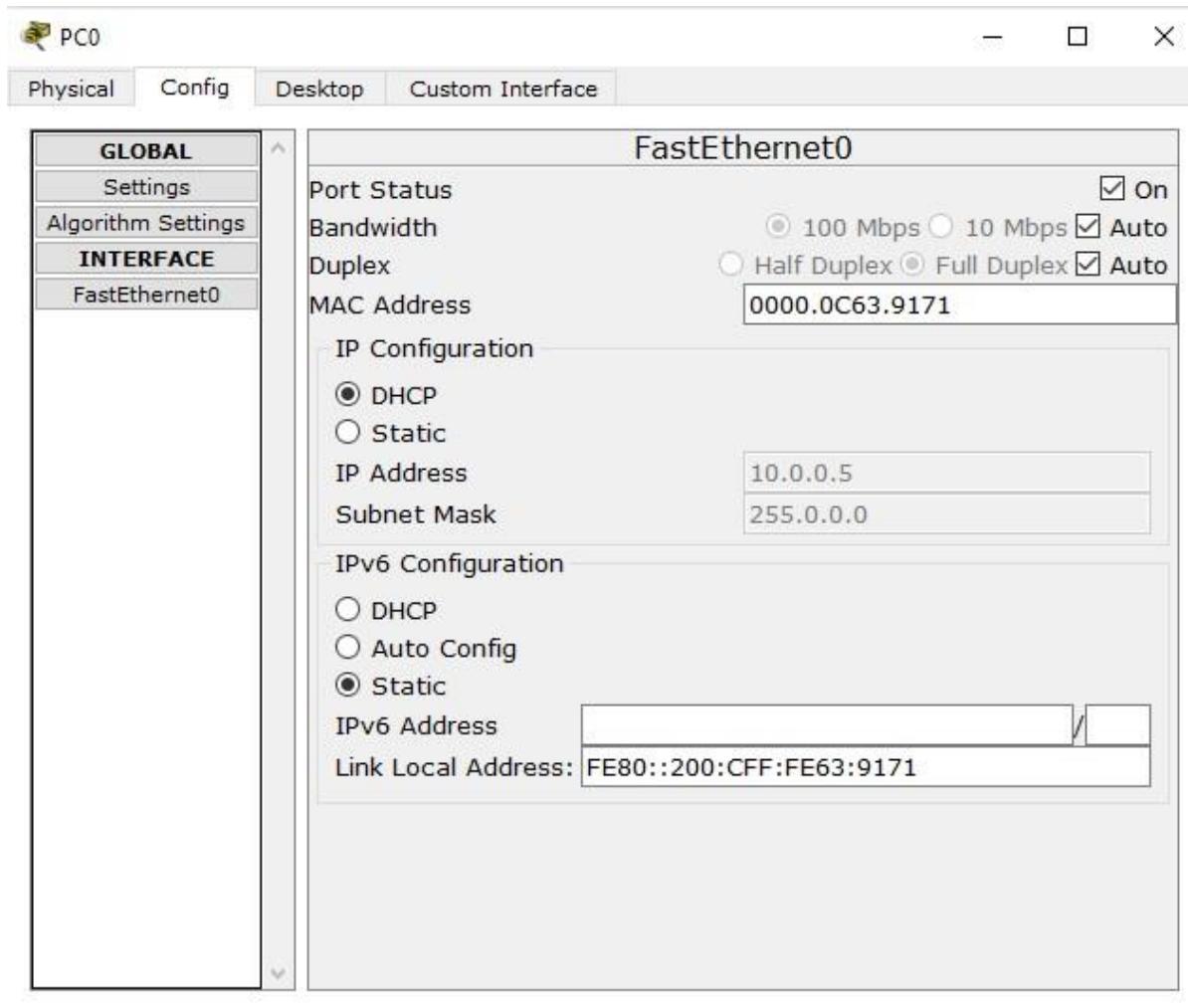
SCREENSHOTS

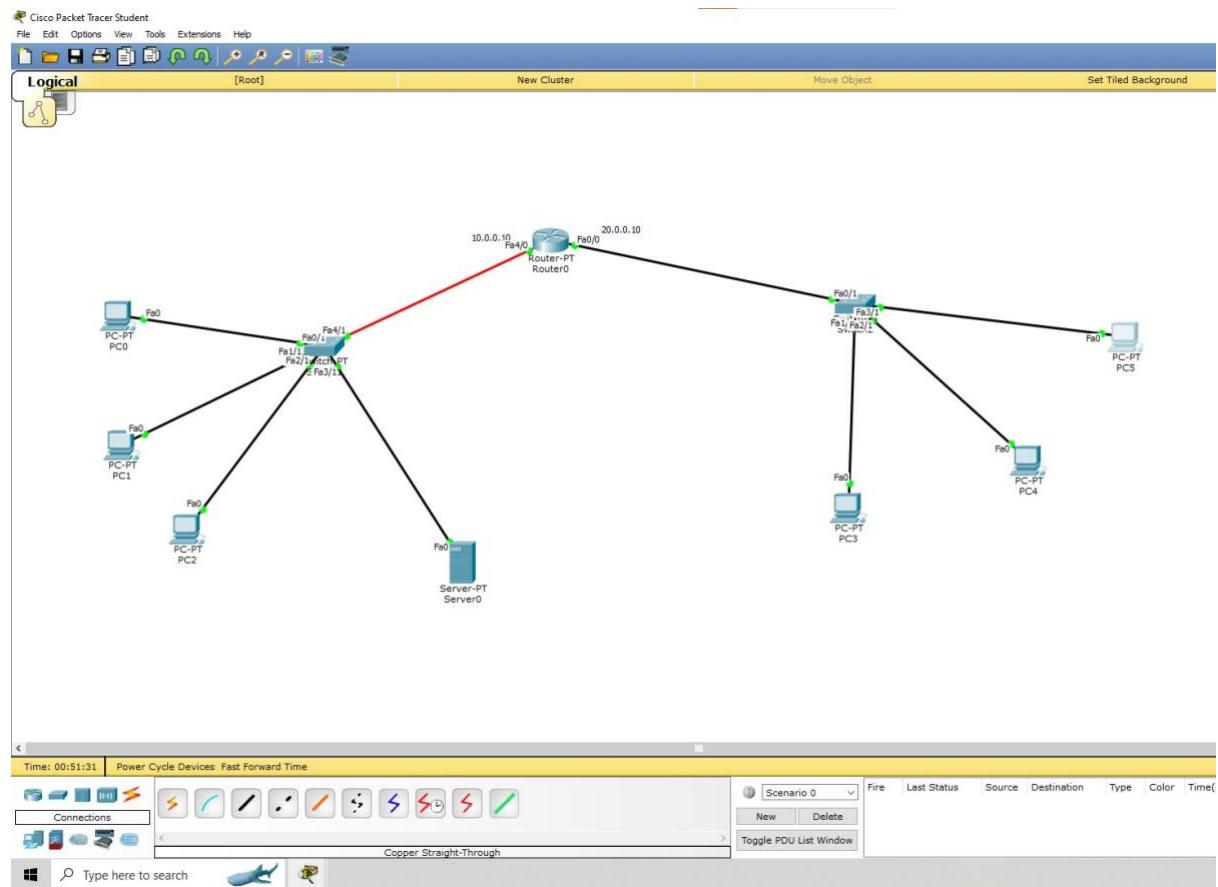












Server0

Physical Config Services Desktop Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

DHCP

Interface: FastEthernet0 Service: On Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address : 10 0 0 2

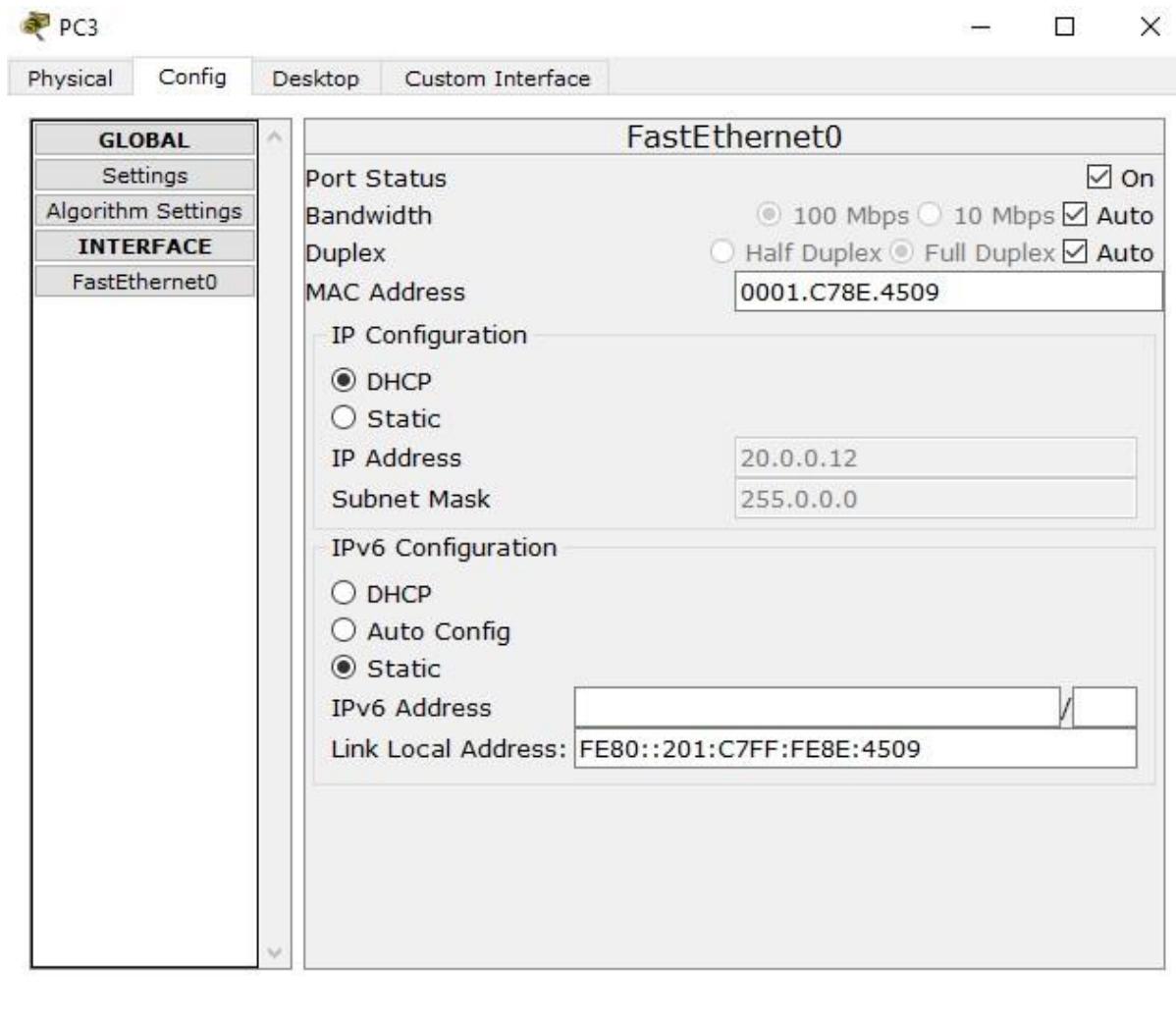
Subnet Mask: 255 0 0 0

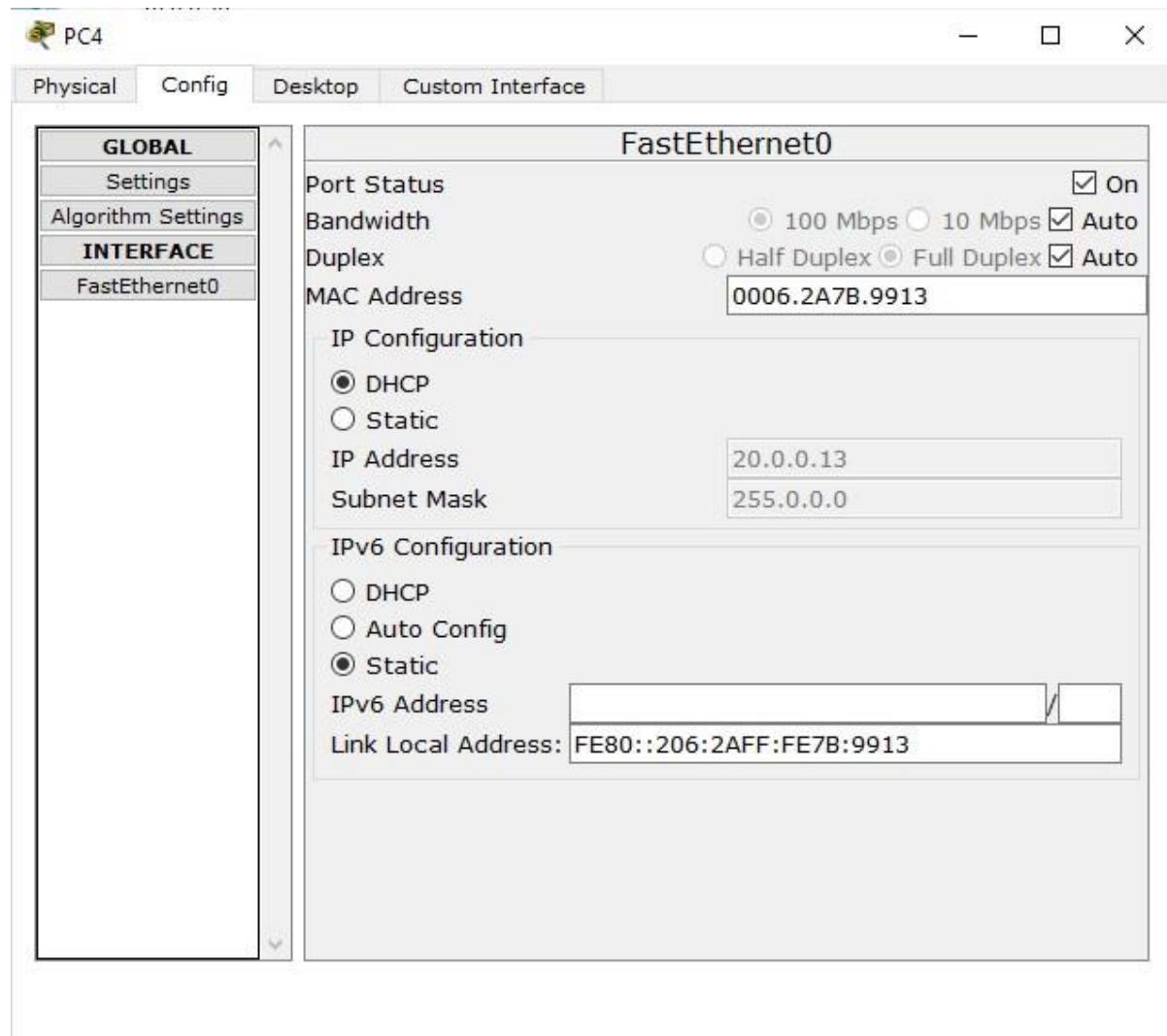
Maximum number of Users : 512

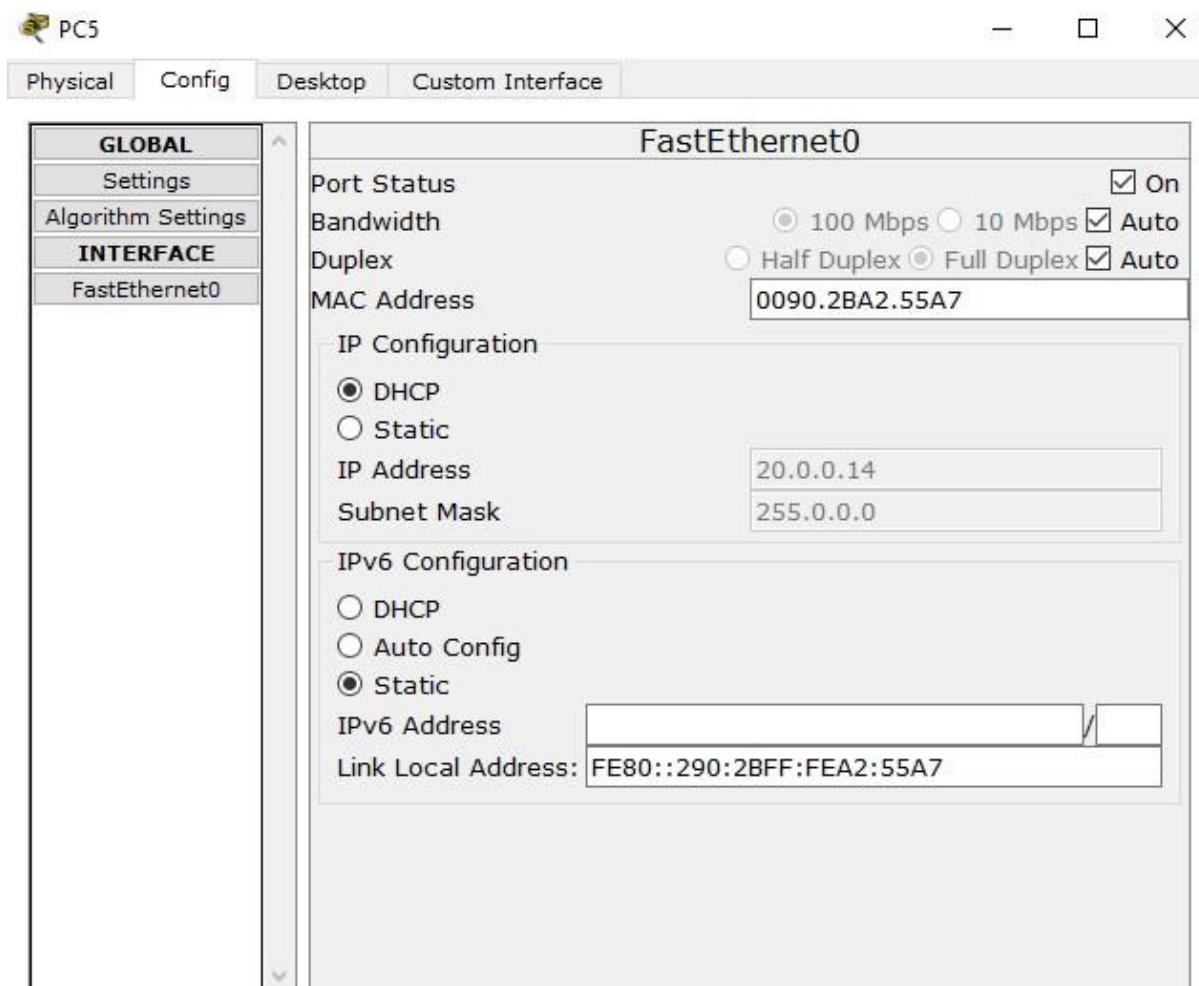
TFTP Server: 0.0.0.0

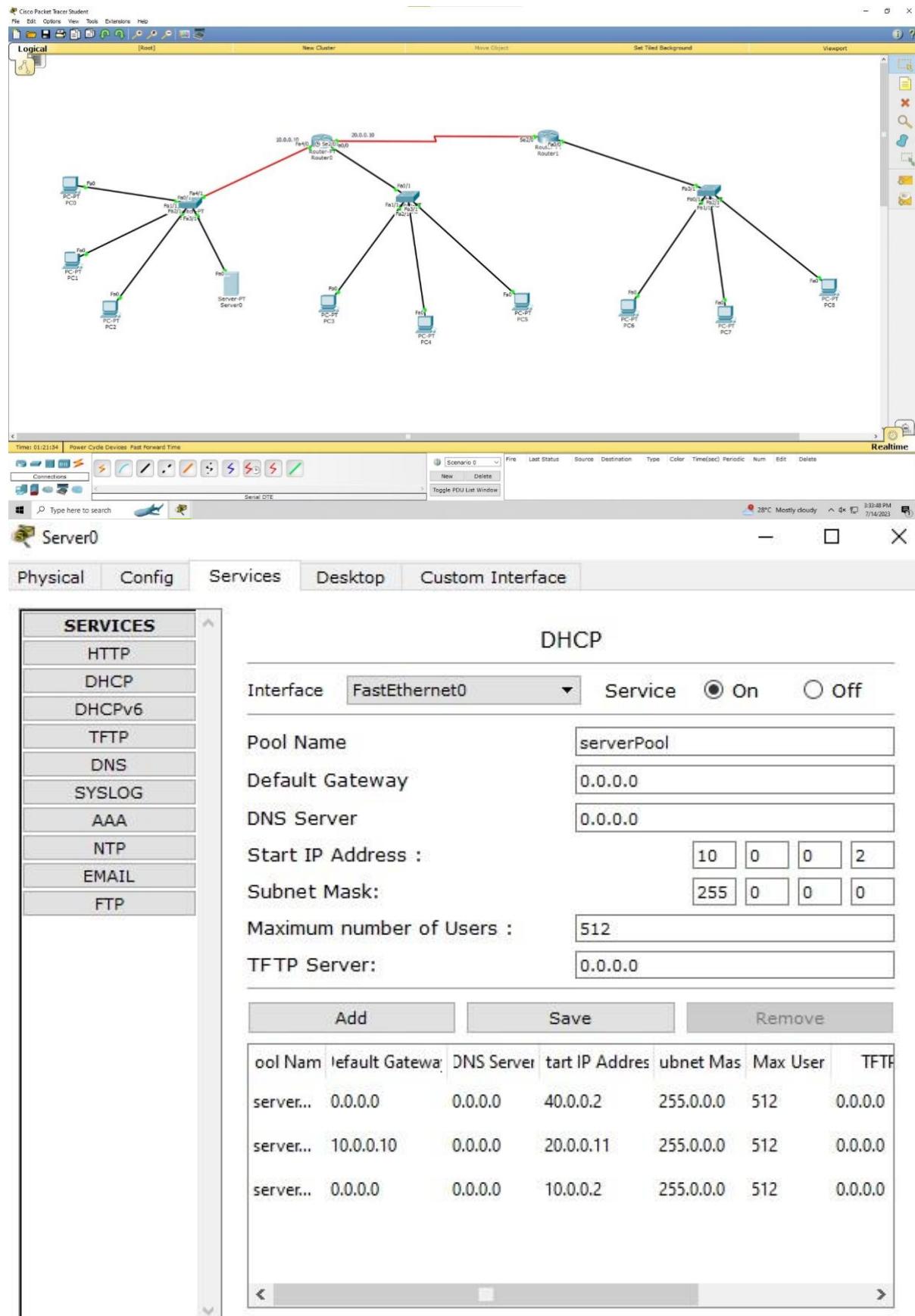
Add Save Remove

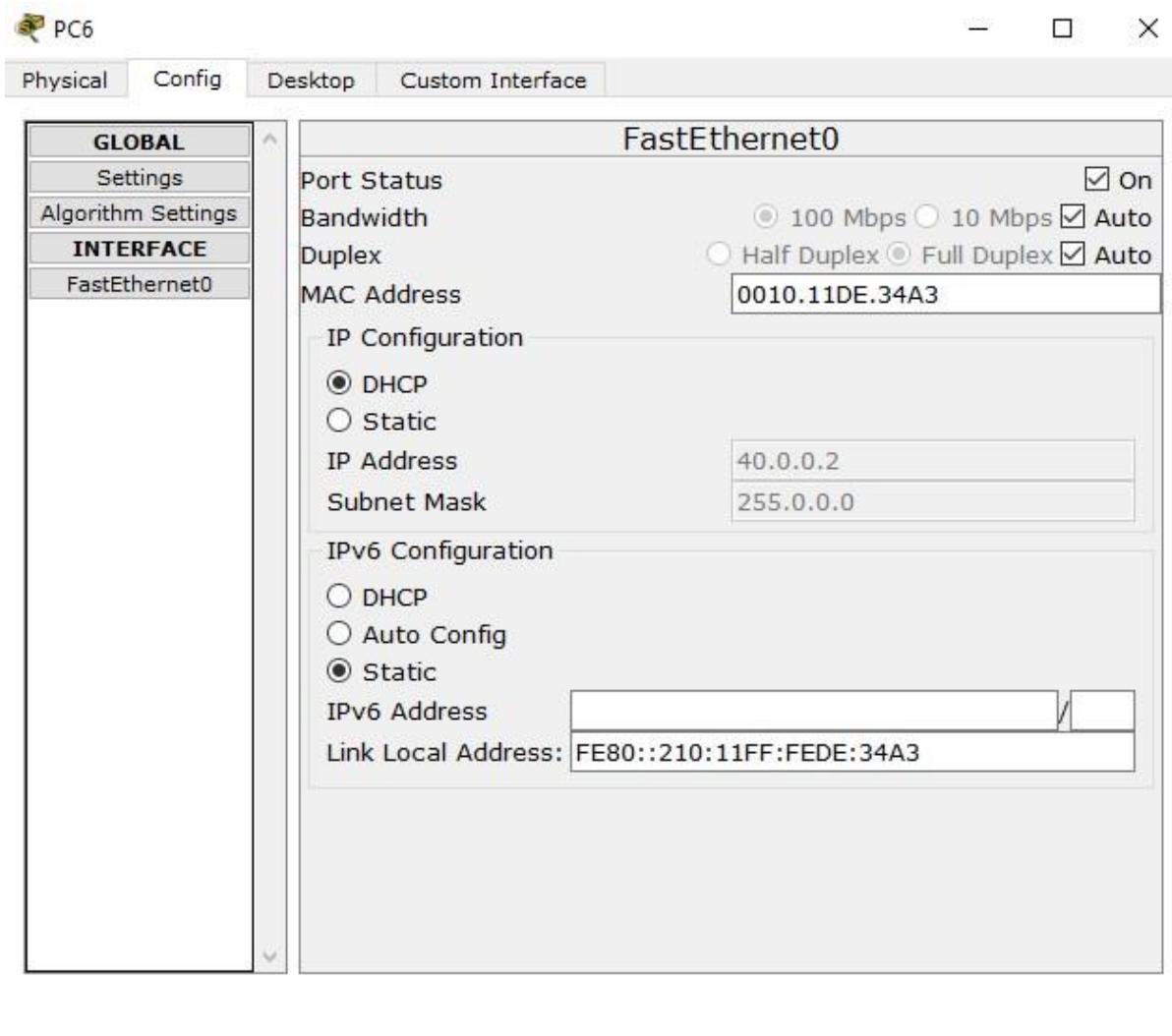
Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP
server...	10.0.0.10	0.0.0.0	20.0.0.11	255.0.0.0	512	0.0.0.0
server...	0.0.0.0	0.0.0.0	10.0.0.2	255.0.0.0	512	0.0.0.0

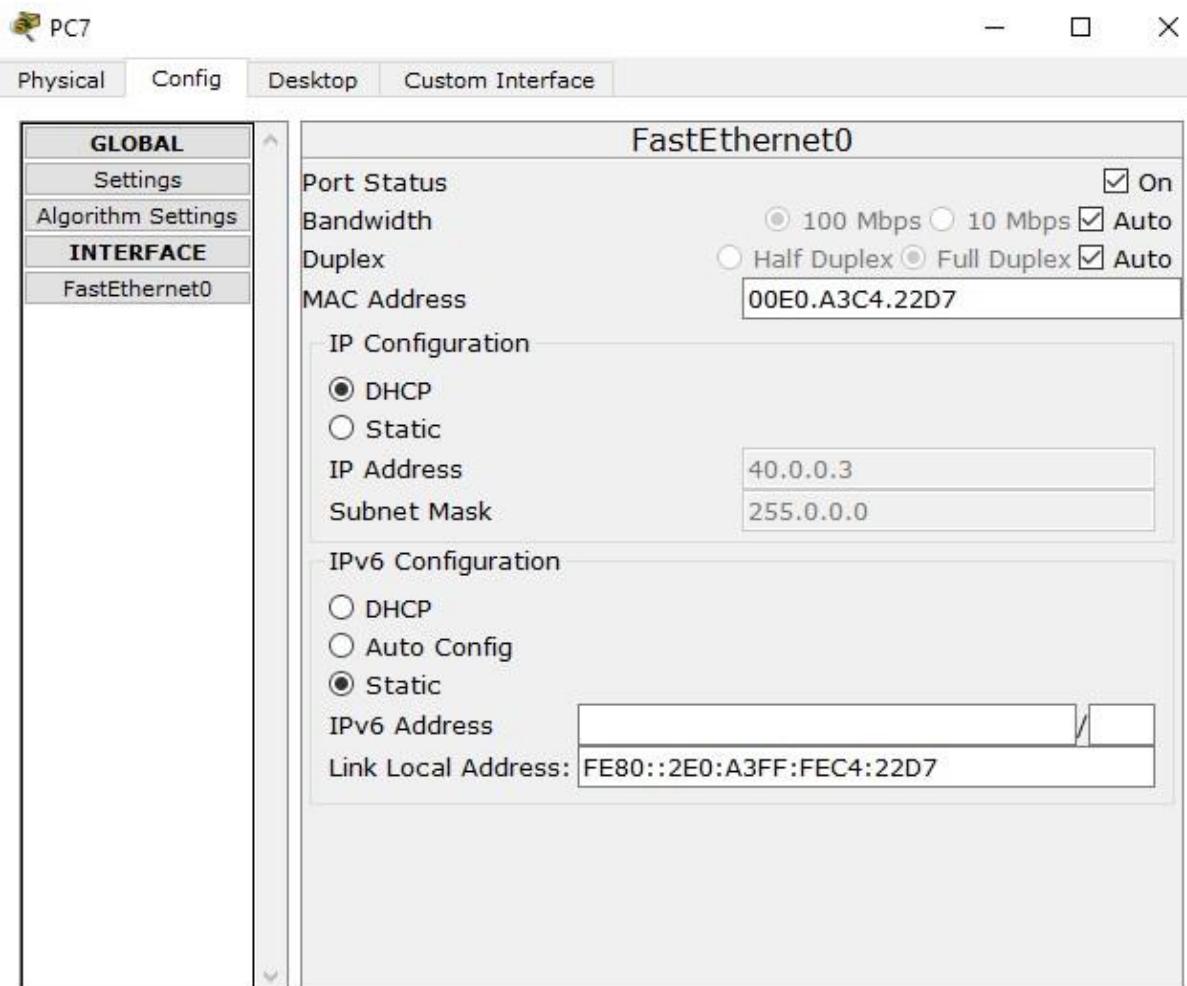












PC8

Physical Config Desktop Custom Interface

GLOBAL	
Settings	
Algorithm Settings	
INTERFACE	
FastEthernet0	
FastEthernet0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0001.C9CB.237A
IP Configuration	
<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static	
IP Address	40.0.0.4
Subnet Mask	255.0.0.0
IPv6 Configuration	
<input type="radio"/> DHCP	
<input type="radio"/> Auto Config	
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address:	FE80::201:C9FF:FEBC:237A

Router1

Physical Config CLI

IOS Command Line Interface

```
*LINEPROTO-0-UPDOWN: Line protocol on interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip route 10.0.0.0 255.0.0.0 30.0.0.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show 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
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
      * - candidate default, U - per-user static route, o - ODR
      P - periodic downloaded static route

Gateway of last resort is not set

S  10.0.0.0/8 [1/0] via 30.0.0.1
C  30.0.0.0/8 is directly connected, Serial2/0
C  40.0.0.0/8 is directly connected, FastEthernet0/0
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip helper-address 10.0.0.1
Router(config-if)#exit
Router(config)#

```