



ADVANCED COMPUTER NETWORK

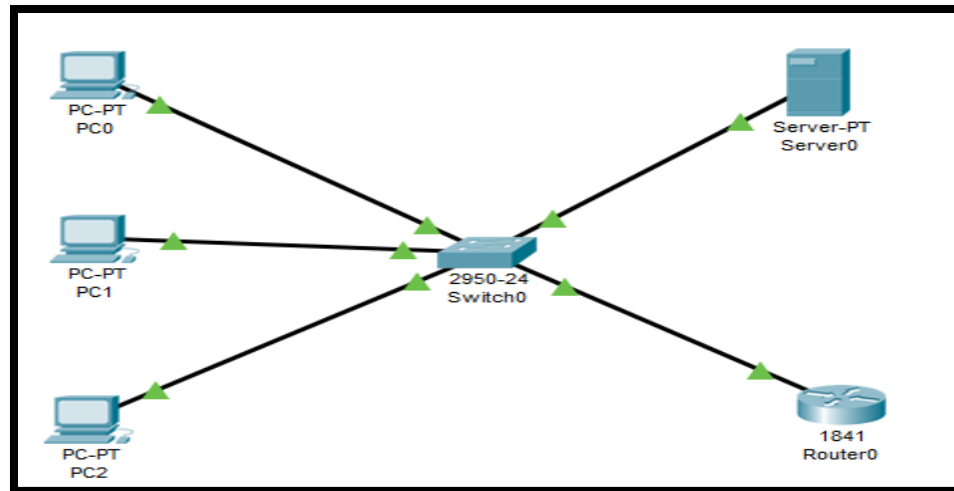
PRACTICAL NO 4

027_Abhishek_Ojha

Practical No 4

Aim: Create DHCP server and client for DHCP service.

Configuration of DHCP Client and Server



On PC0:

PC0 configuration window (Desktop tab):

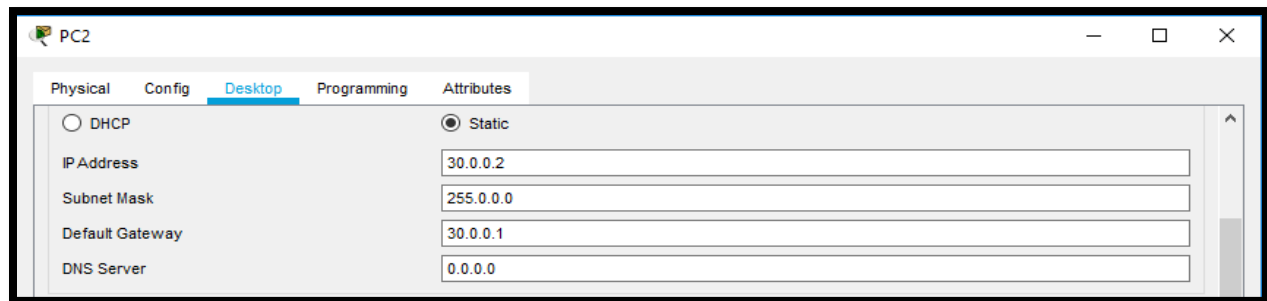
Property	Value
IP Address	10.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	10.0.0.1
DNS Server	0.0.0.0

On PC1:

PC1 configuration window (Desktop tab):

Property	Value
IP Address	20.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	20.0.0.1
DNS Server	0.0.0.0

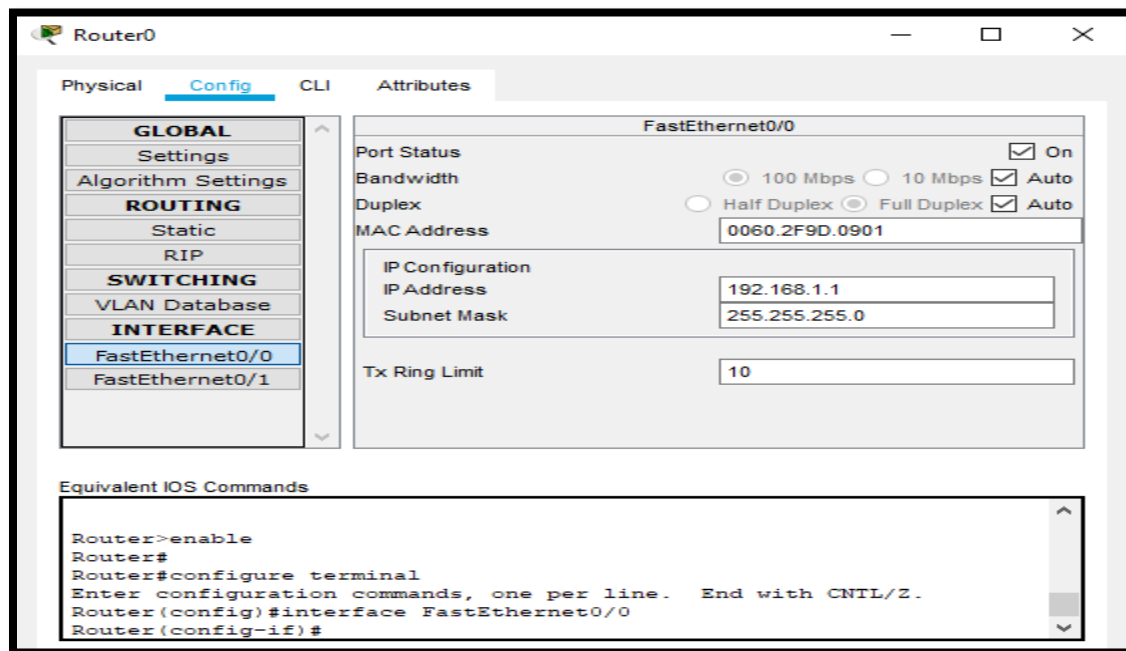
On PC2:



The screenshot shows the 'PC2' configuration window with the 'Desktop' tab selected. It displays network configuration fields for DHCP and Static IP settings.

Field	Value
IP Address	30.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	30.0.0.1
DNS Server	0.0.0.0

On Router0:



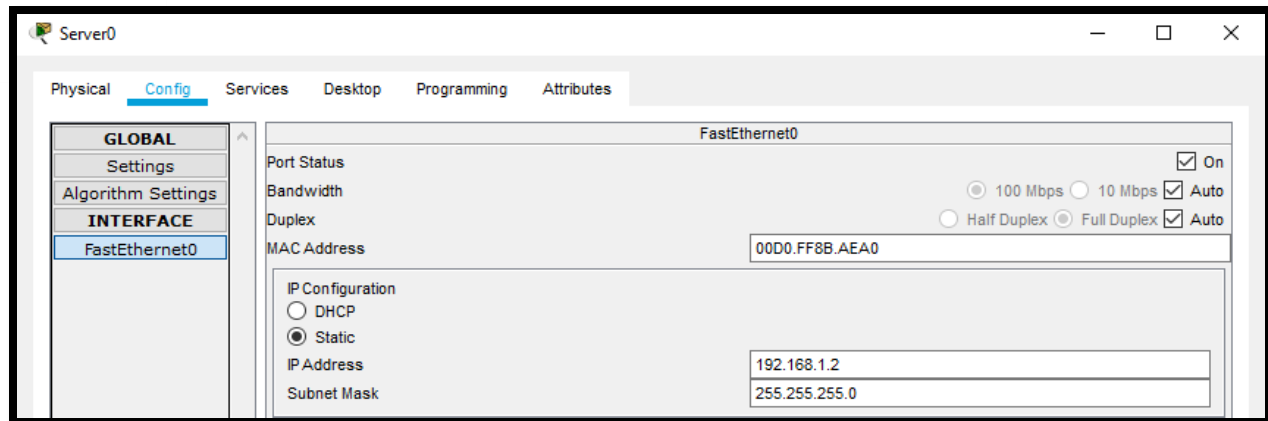
The screenshot shows the 'Router0' configuration window with the 'Config' tab selected. It displays the configuration for the 'FastEthernet0/0' interface, including port status, bandwidth, duplex, MAC address, and IP configuration.

Field	Value
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	0060.2F9D.0901
IP Configuration	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Tx Ring Limit	10

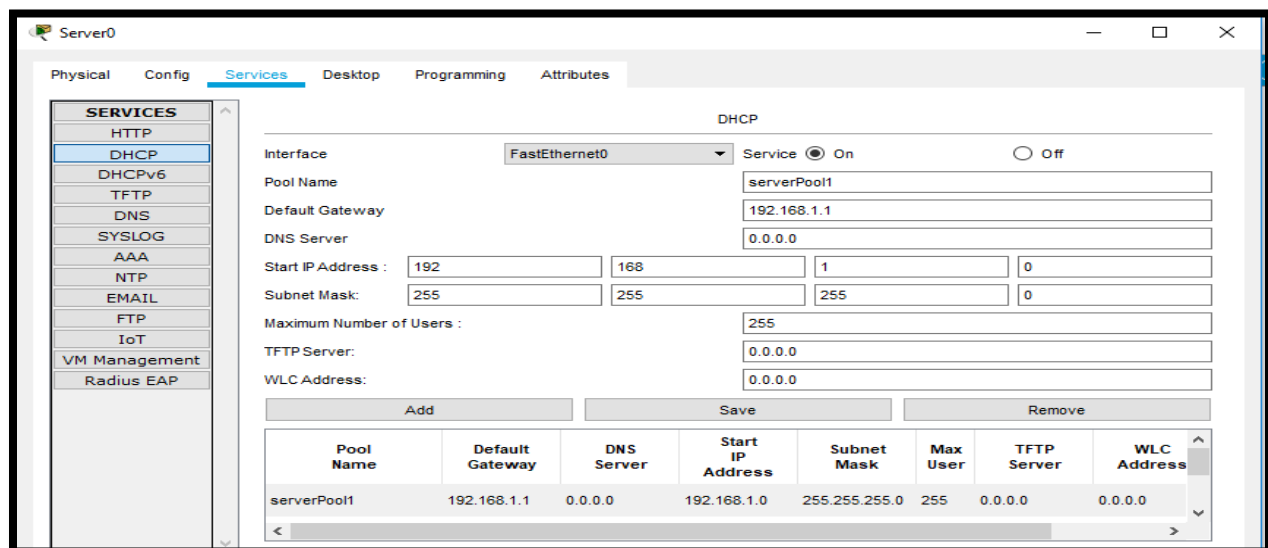
Equivalent IOS Commands

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

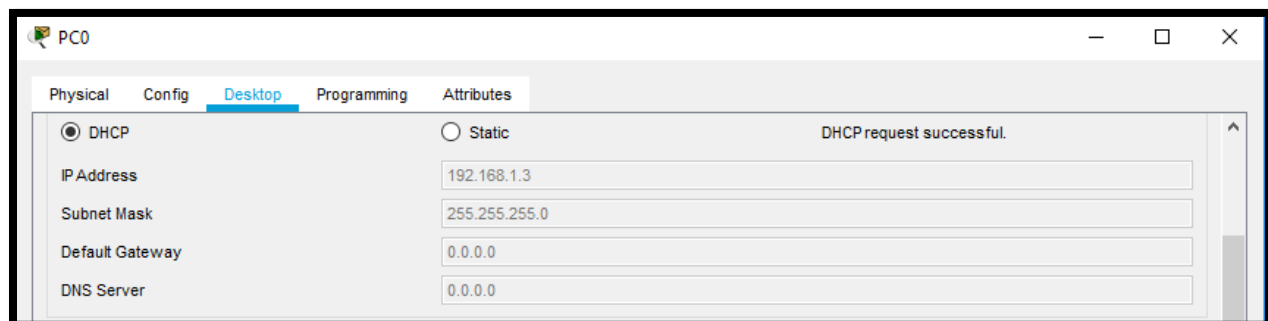
Setup IP on Server0:



Setup DHCP on Server0:



Now go to PC0 and select DHCP:



Now, open web browser on PC0 and enter the Server IP Address:

