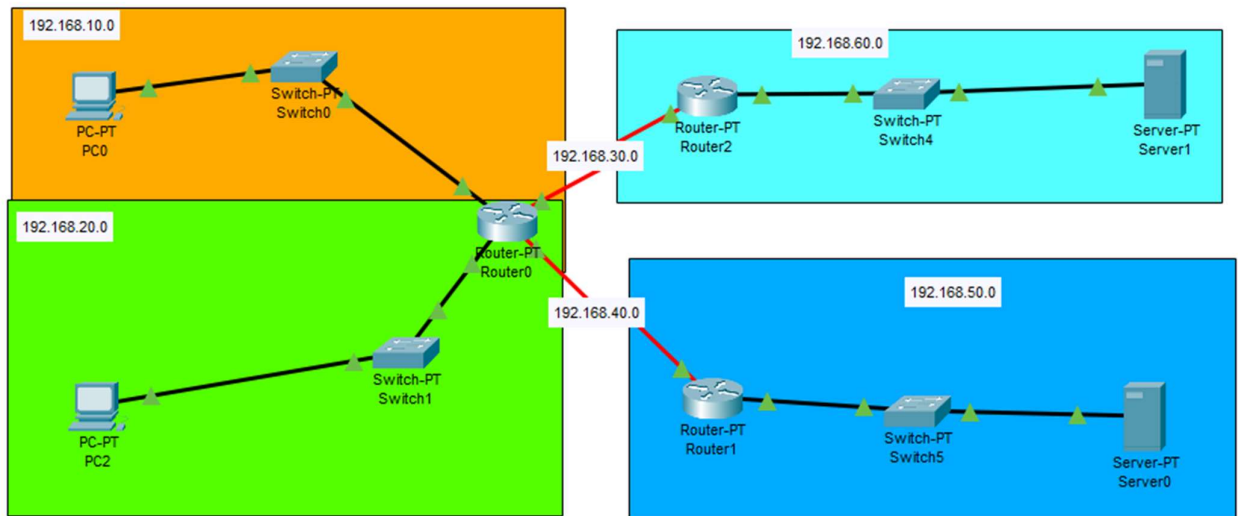


## AIM: Understanding ,Reading and Analyzing Routing Table of a network

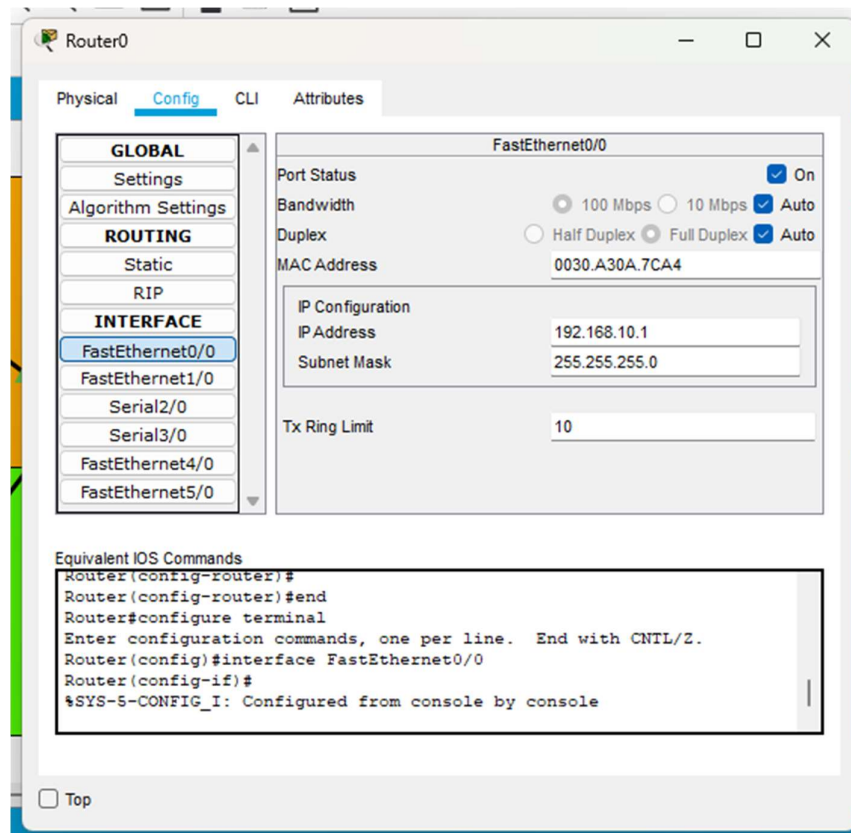


We have 6 networks in this topology.

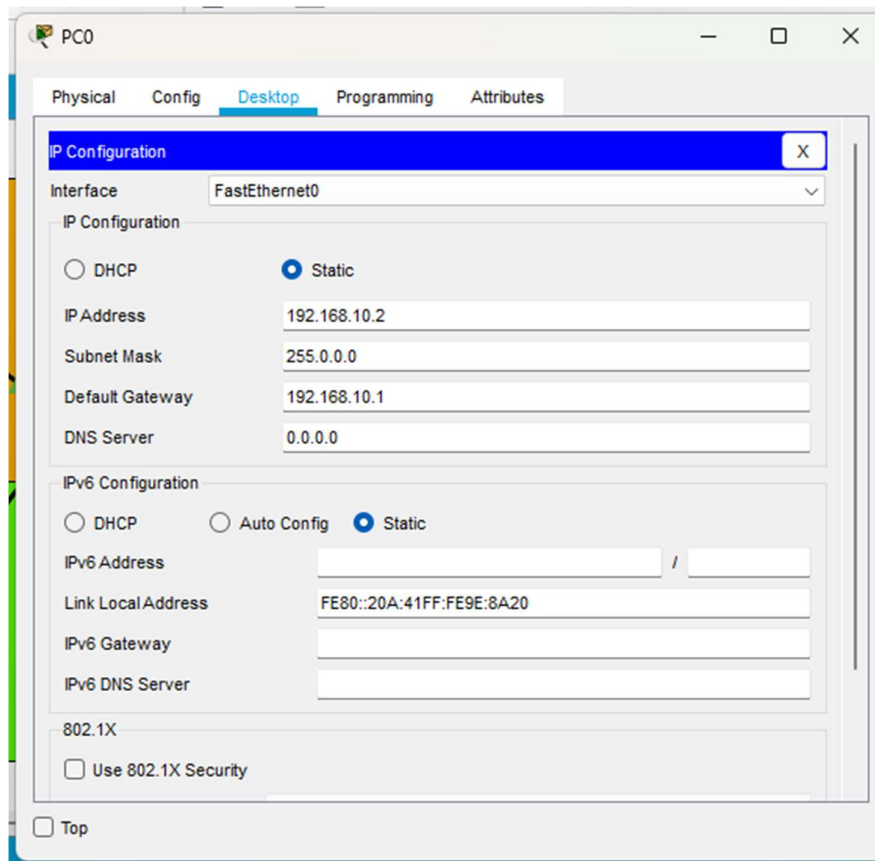
192.168.10.0, 192.168.20.0, 192.168.30.0, 192.168.40.0, 192.168.50.0, 192.168.60.0

Let's configure network 192.168.10.0

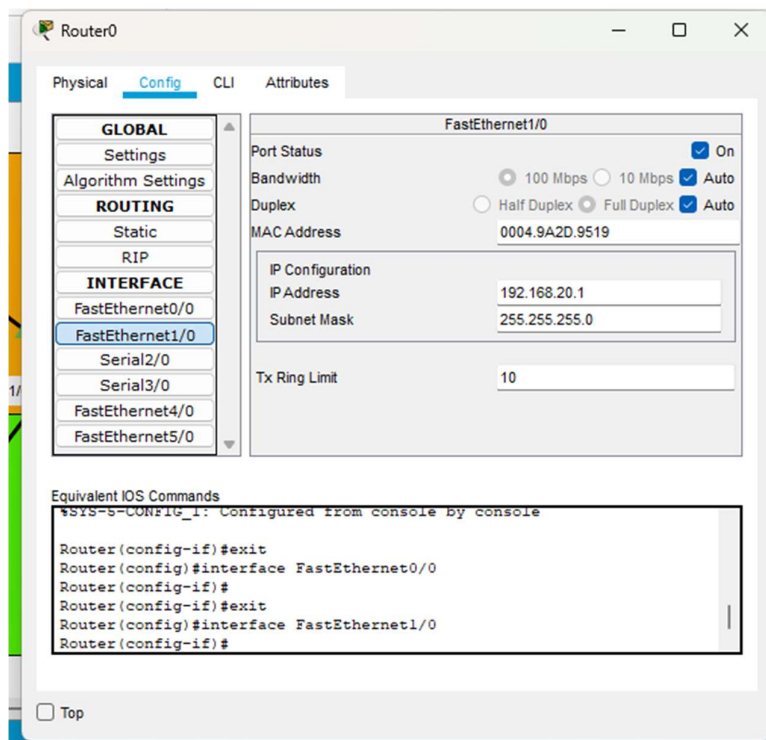
Double Click on router0, click on fa0/0 and enter the ip address



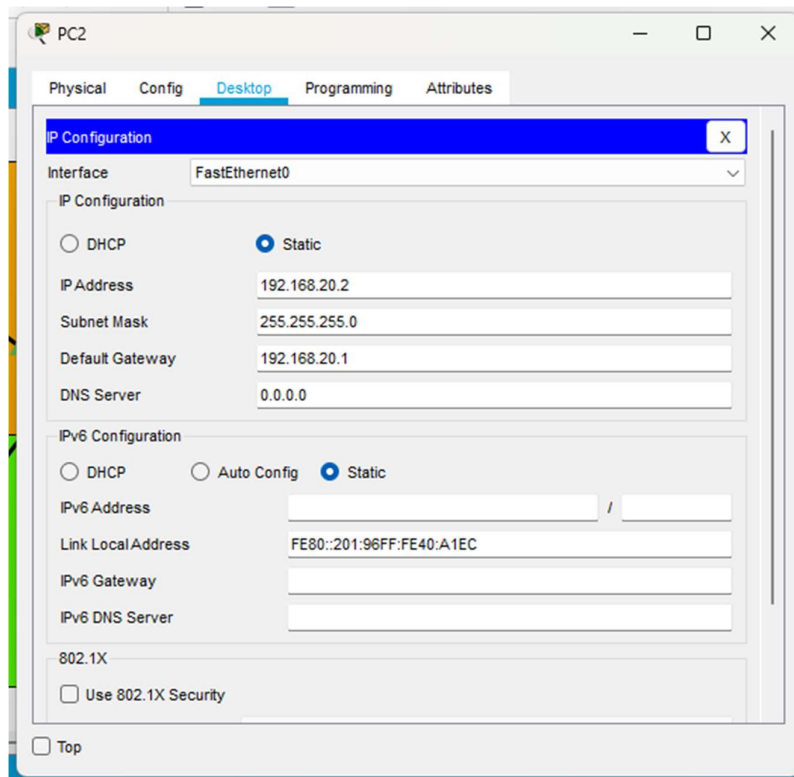
Now Click on the PC0 and enter the ip and default gateway.



Now we configure network 192.168.20.0, on router0 go to fa1/0 interface and enter the ip address

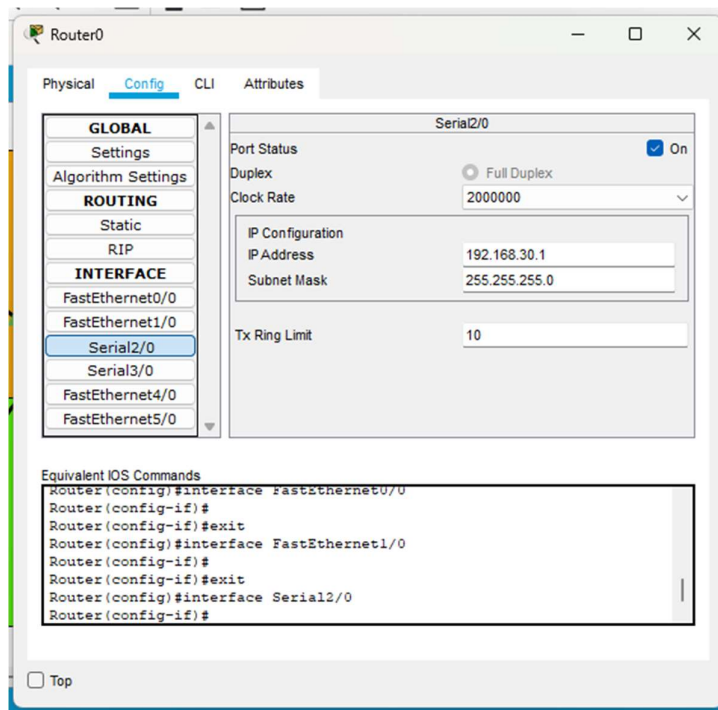


Now click on PC2 and enter the ip and default gateway for the particular network.

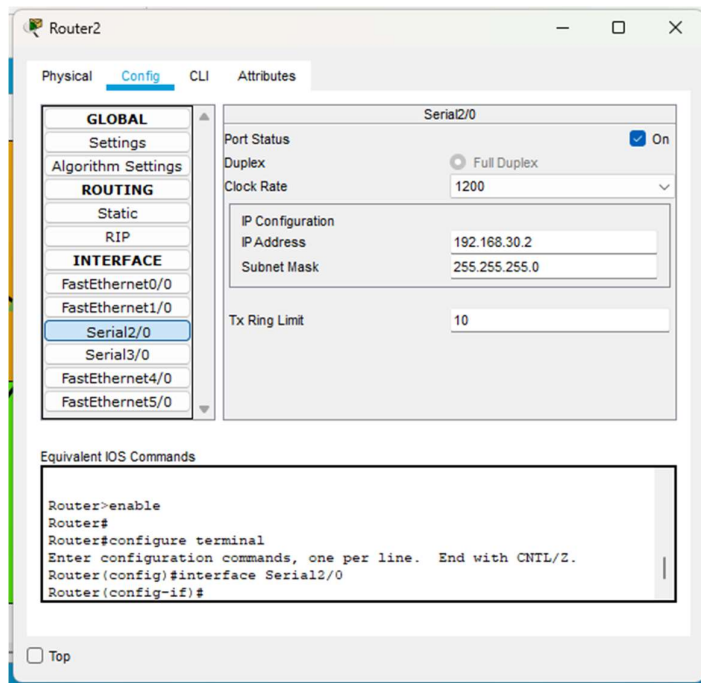


Now we configure network 192.168.30.0. i.e the connection between router0 and router2

On router0, go to se2/0 interface and enter ip address

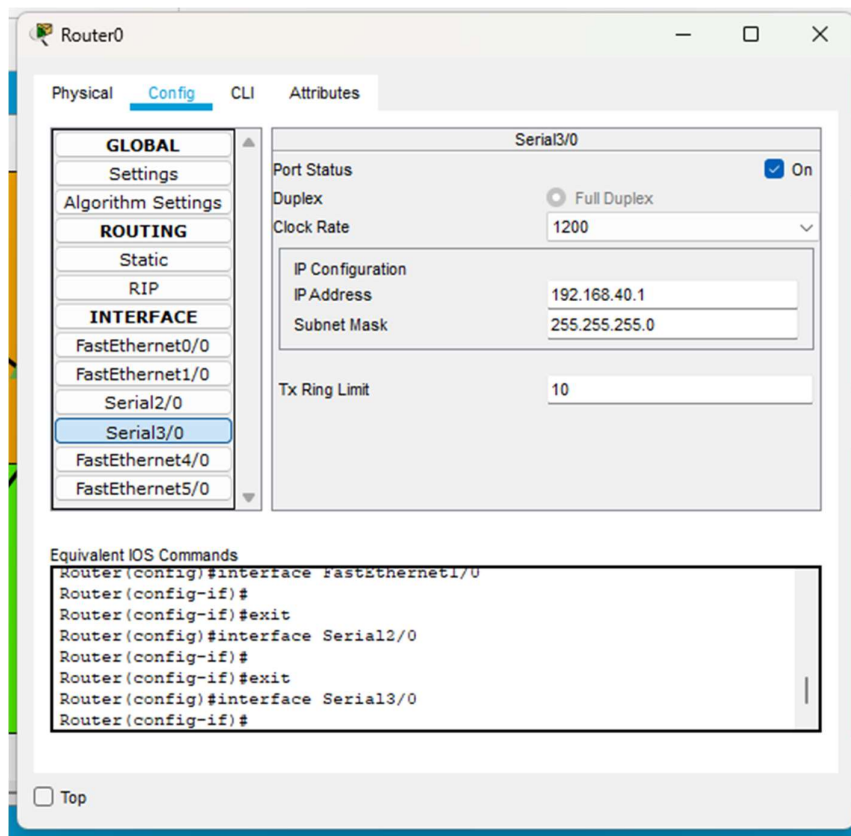


We go to the same interface on router2 and enter the ip address

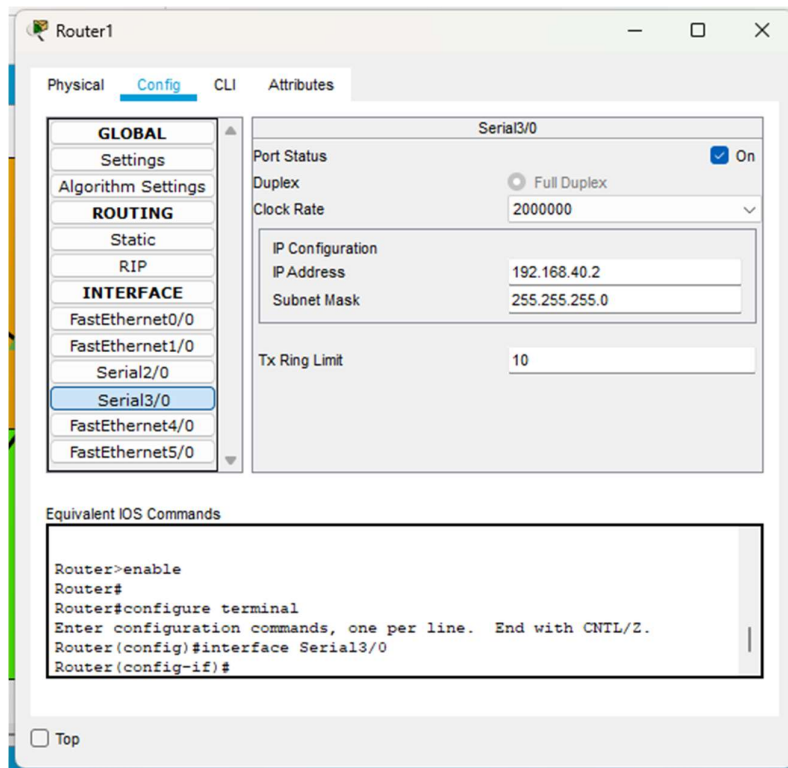


Now we configure network 192.168.40.0. i.e the connection between router0 and router1

On router0, go to se3/0 interface and enter ip address

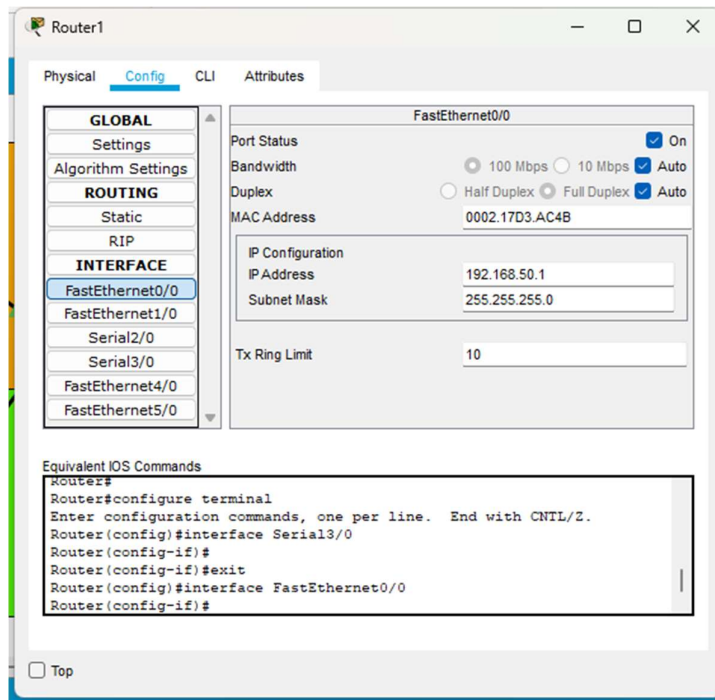


We go to the same interface on router1 and enter the ip address

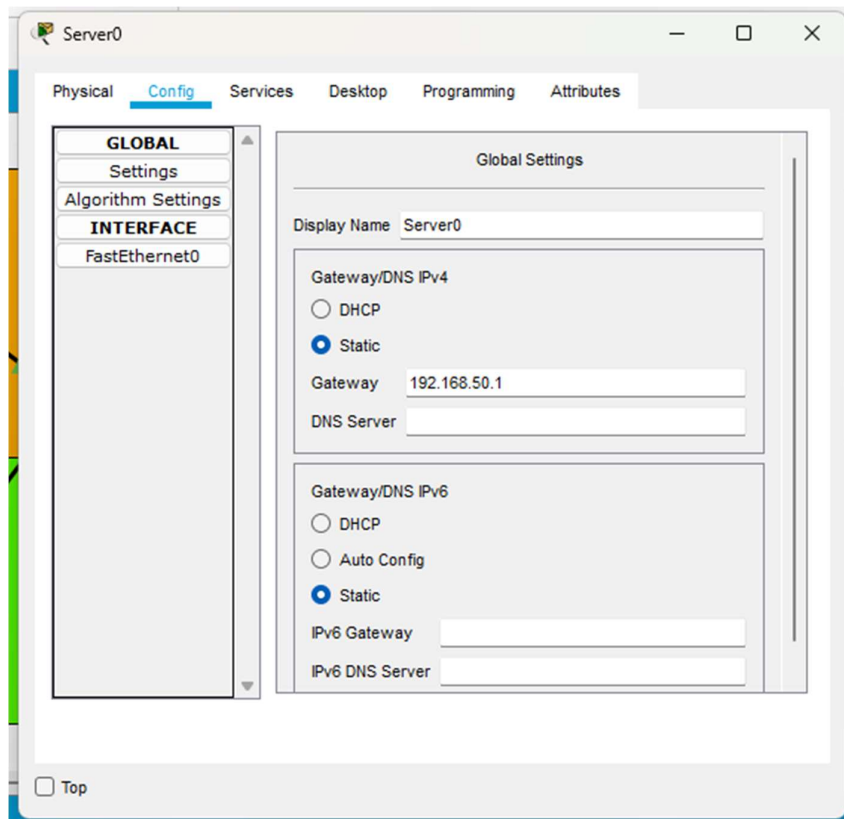


Now we configure network 192.168.50.0.

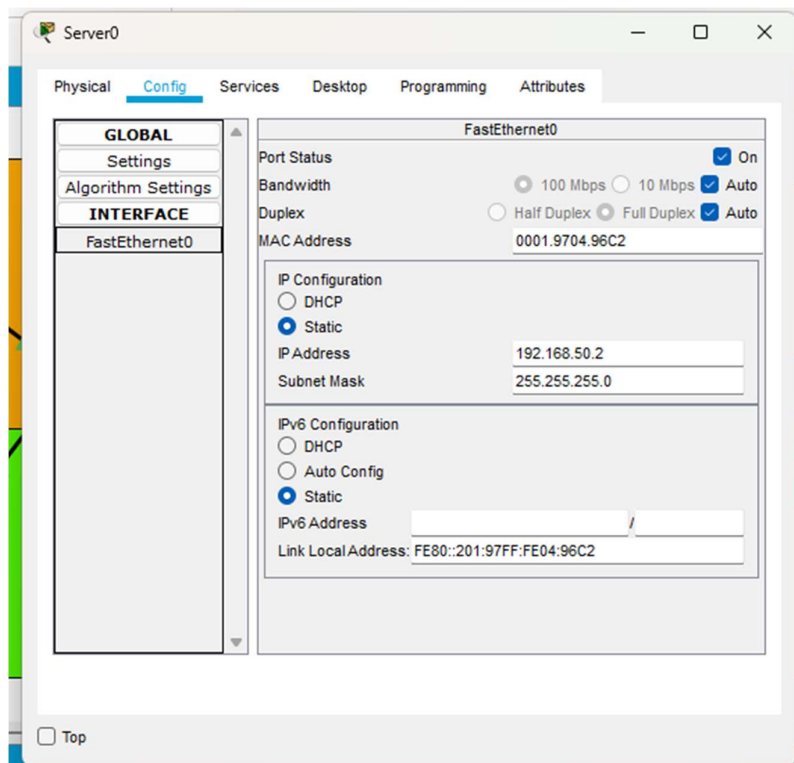
Go to interface fa0/0 on router1 and enter the ip address



Now click on Server0 and enter the default gateway.



And also set the fa0 interface of the server and set the ip address



Now we configure the network 192.168.60.0

Go to interface fa0/0 on router2 and enter the ip address

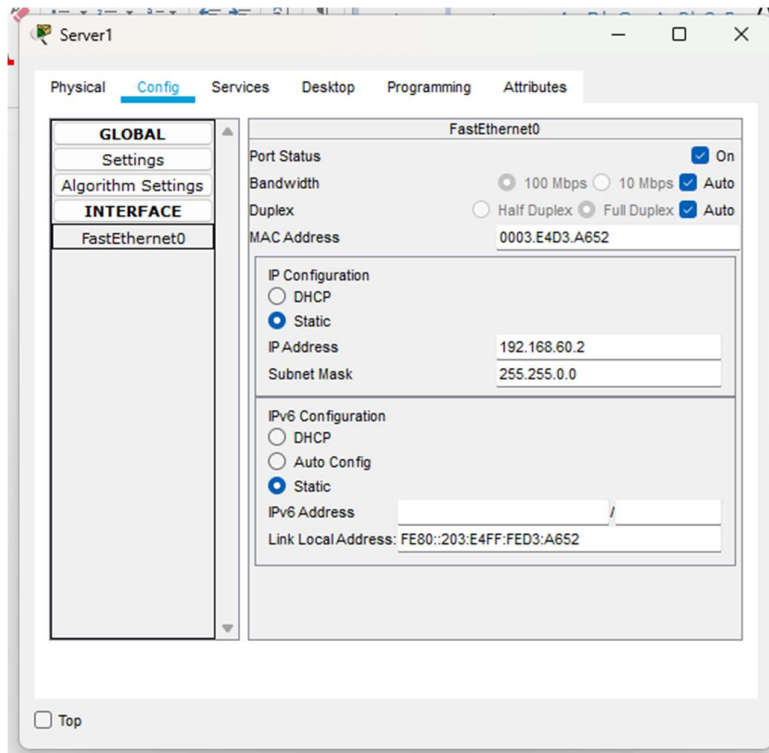
The screenshot shows the configuration window for Router2. The 'Config' tab is active, and the 'FastEthernet0/0' interface is selected. The 'IP Configuration' section shows the IP Address set to 192.168.60.1 and the Subnet Mask set to 255.255.255.0. The 'Port Status' is set to 'On', 'Bandwidth' is '100 Mbps', 'Duplex' is 'Full Duplex', and 'MAC Address' is '0009.7C48.6003'. The 'Tx Ring Limit' is set to 10. The 'Equivalent IOS Commands' section shows the following commands:

```
Router#  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTRL/Z.  
Router(config)#interface Serial2/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#
```

Now click on Server1 and enter the default gateway.

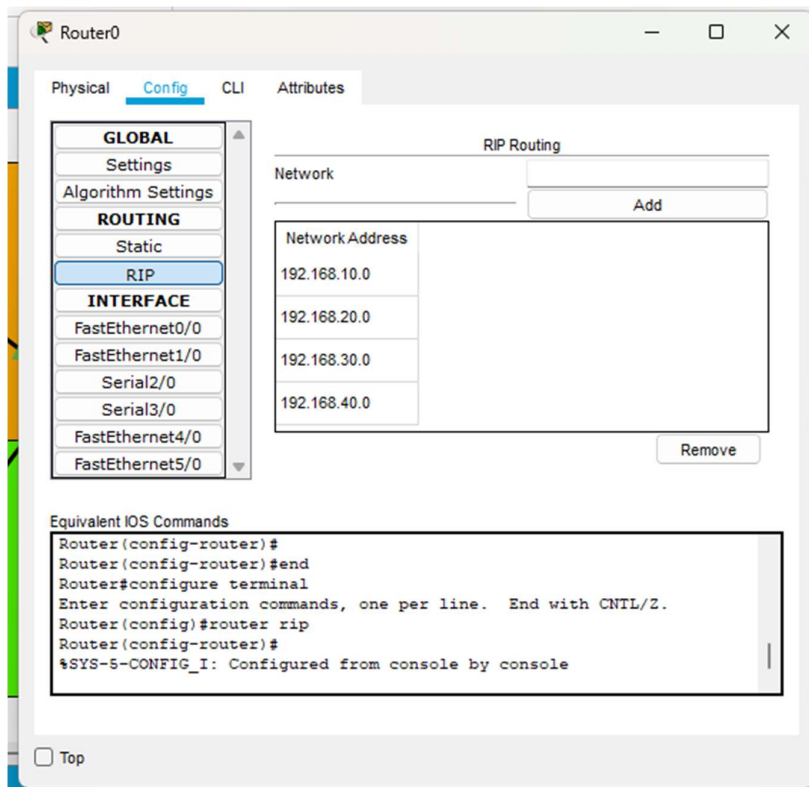
The screenshot shows the configuration window for Server1. The 'Config' tab is active, and the 'Global Settings' section is visible. The 'Display Name' is set to 'Server1'. The 'Gateway/DNS IPv4' section shows 'Static' selected, with the 'Gateway' set to 192.168.60.1. The 'Gateway/DNS IPv6' section shows 'Static' selected, with the 'IPv6 Gateway' and 'IPv6 DNS Server' fields empty.

And also set the fa0 interface of the server and set the ip address



Now we do the RIP configuration for all 3 routers.

For router0





## Router2

The screenshot shows the configuration window for Router2. The 'Config' tab is active, and the 'RIP' option is selected under the 'ROUTING' section in the left sidebar. The main area is titled 'RIP Routing' and contains a 'Network' section with an 'Add' button. Below this is a table with two rows of network addresses: 192.168.30.0 and 192.168.60.0. A 'Remove' button is located at the bottom right of the table. At the bottom of the window, there is a section for 'Equivalent IOS Commands' containing a list of configuration commands.

Router2

Physical **Config** CLI Attributes

**GLOBAL**

- Settings
- Algorithm Settings

**ROUTING**

- Static
- RIP**

**INTERFACE**

- FastEthernet0/0
- FastEthernet1/0
- Serial2/0
- Serial3/0
- FastEthernet4/0
- FastEthernet5/0

RIP Routing

Network

Add

Network Address
192.168.30.0
192.168.60.0

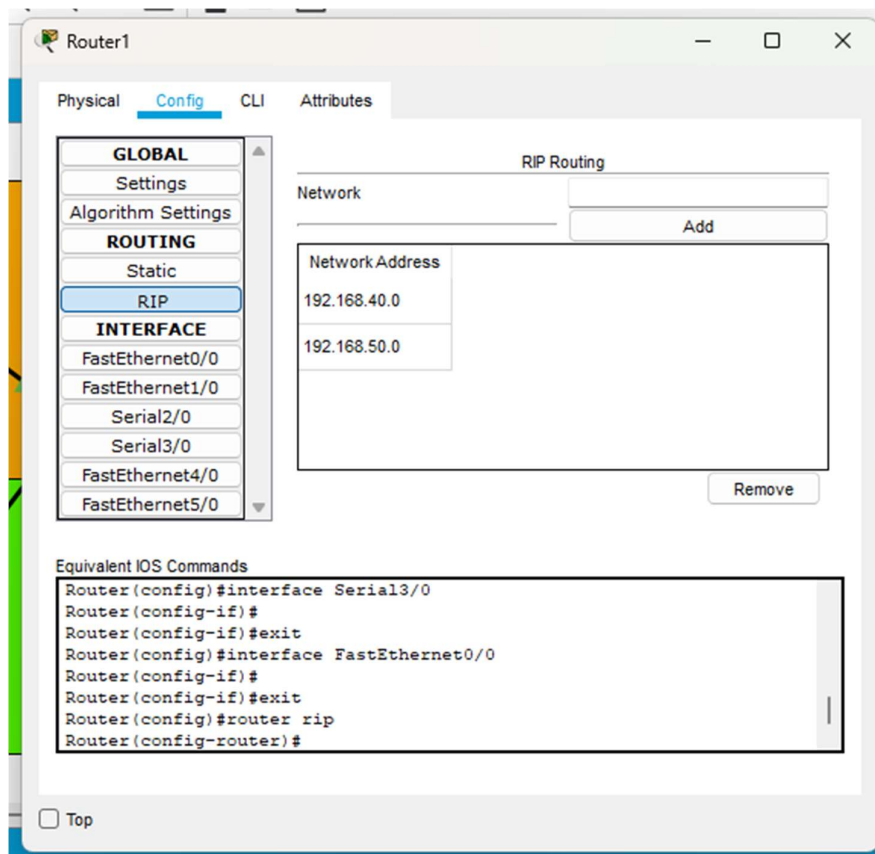
Remove

Equivalent IOS Commands

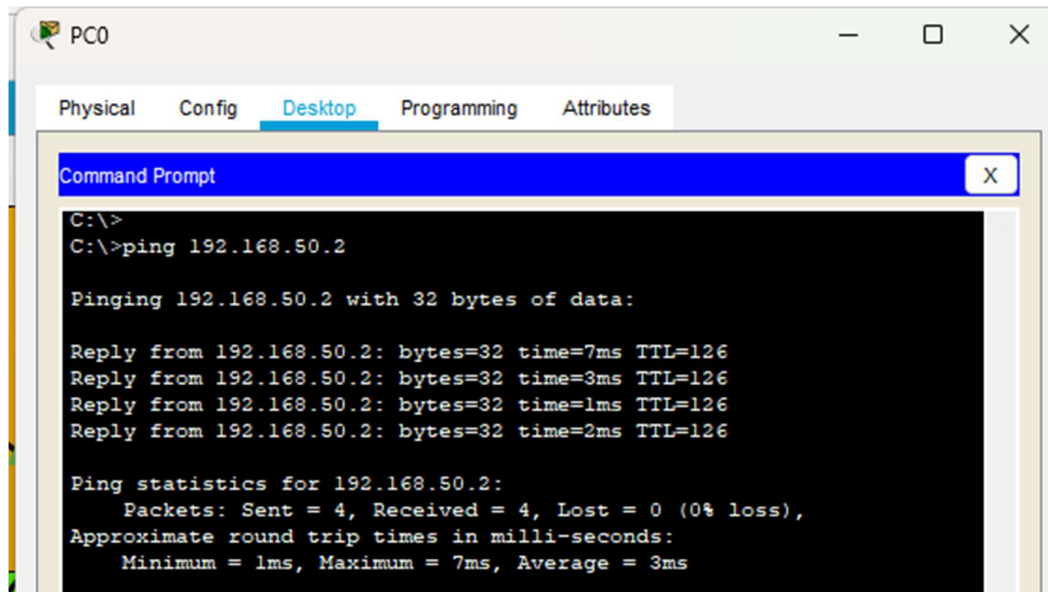
```
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#
```

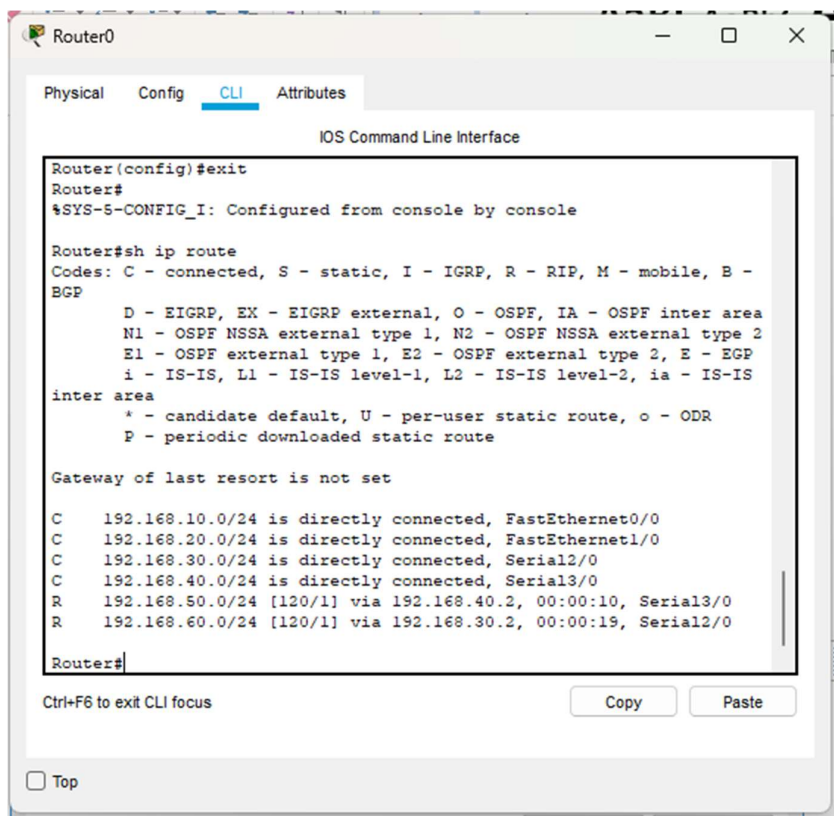
☐ Top

## Router1



Now we ping, Server0 from PC0





## Routing Table

