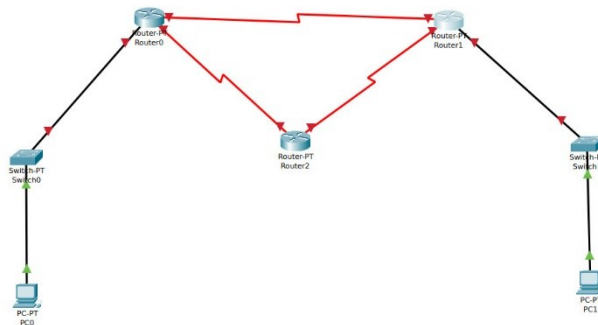
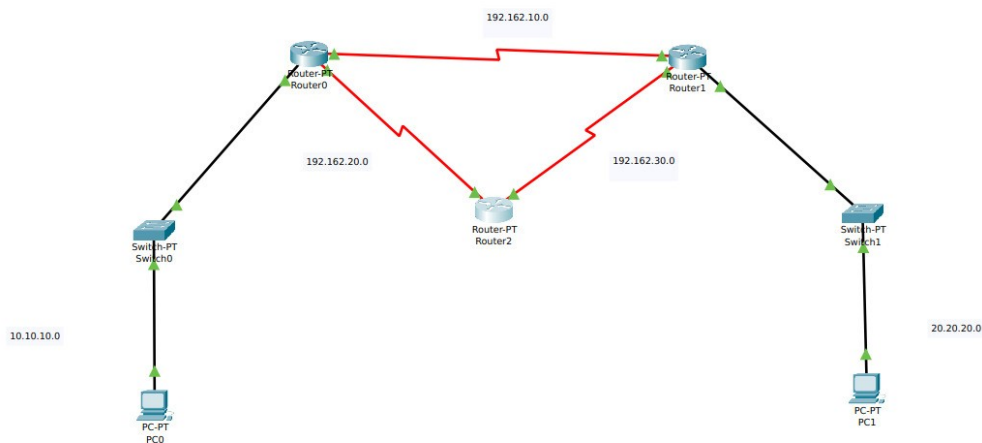


OSPF-DYNAMIC ROUTING

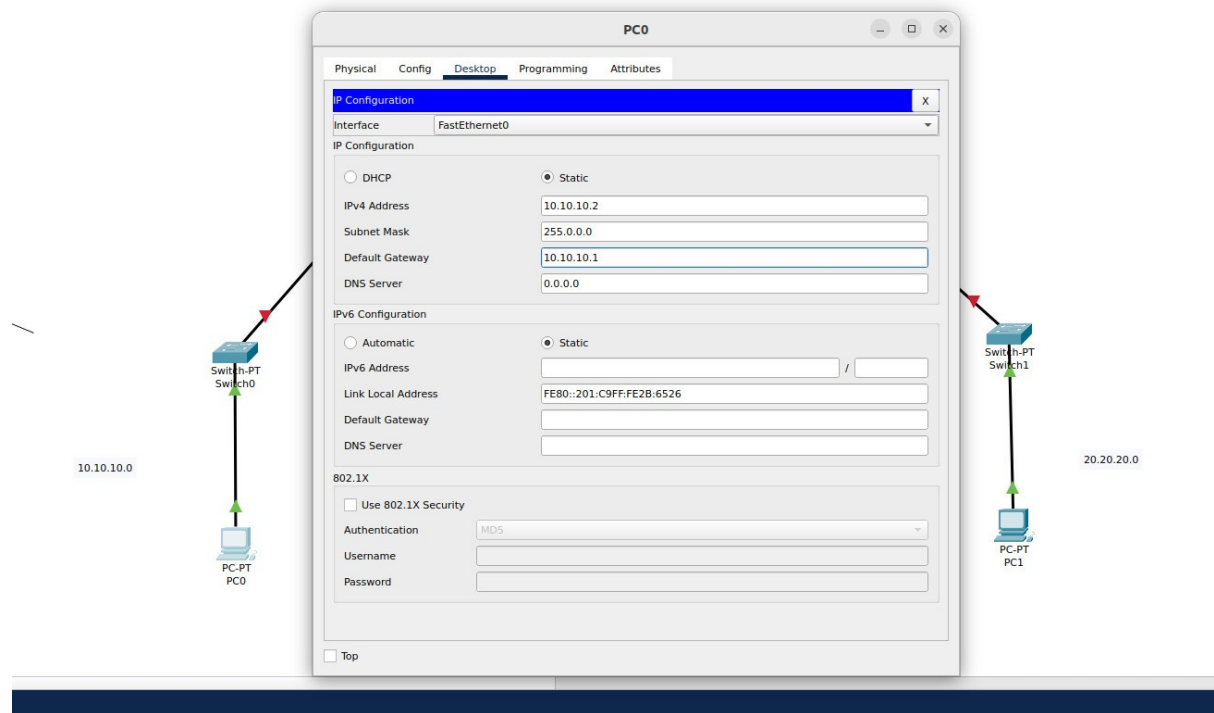
Step1: Arrange the components as shown in the picture.



Step2: Connect the pc,server and router using “Automatically Choose Connection Type” cable.

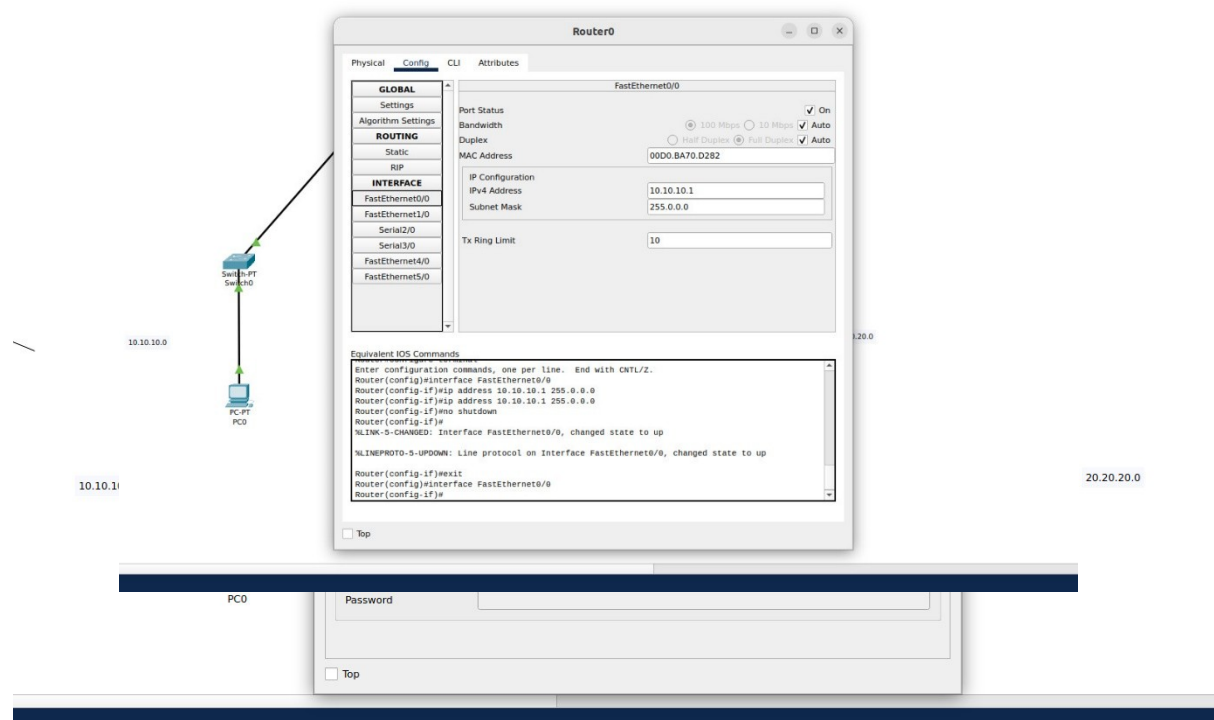


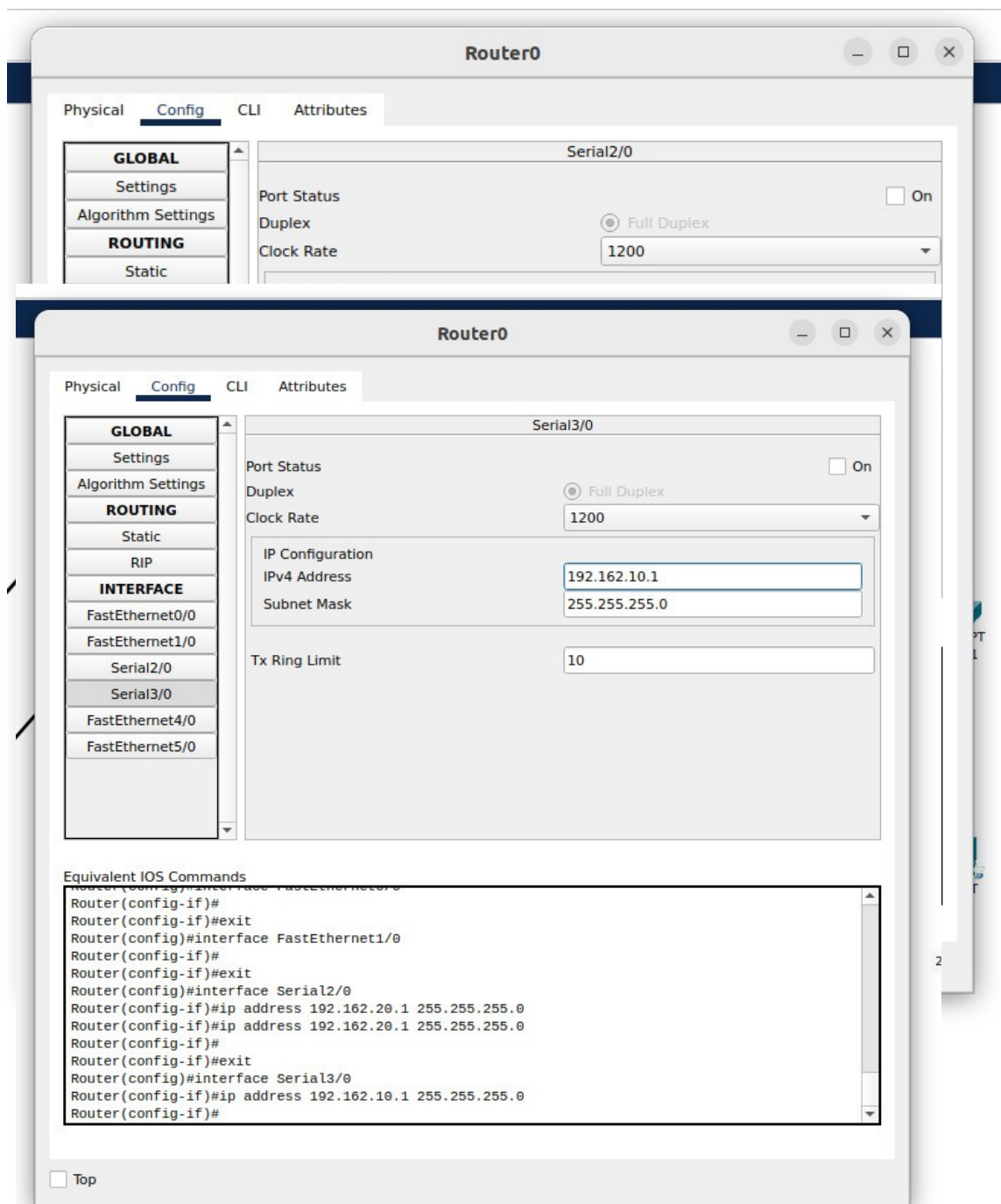
Step3: Configure the pc0 as shown in the picture.



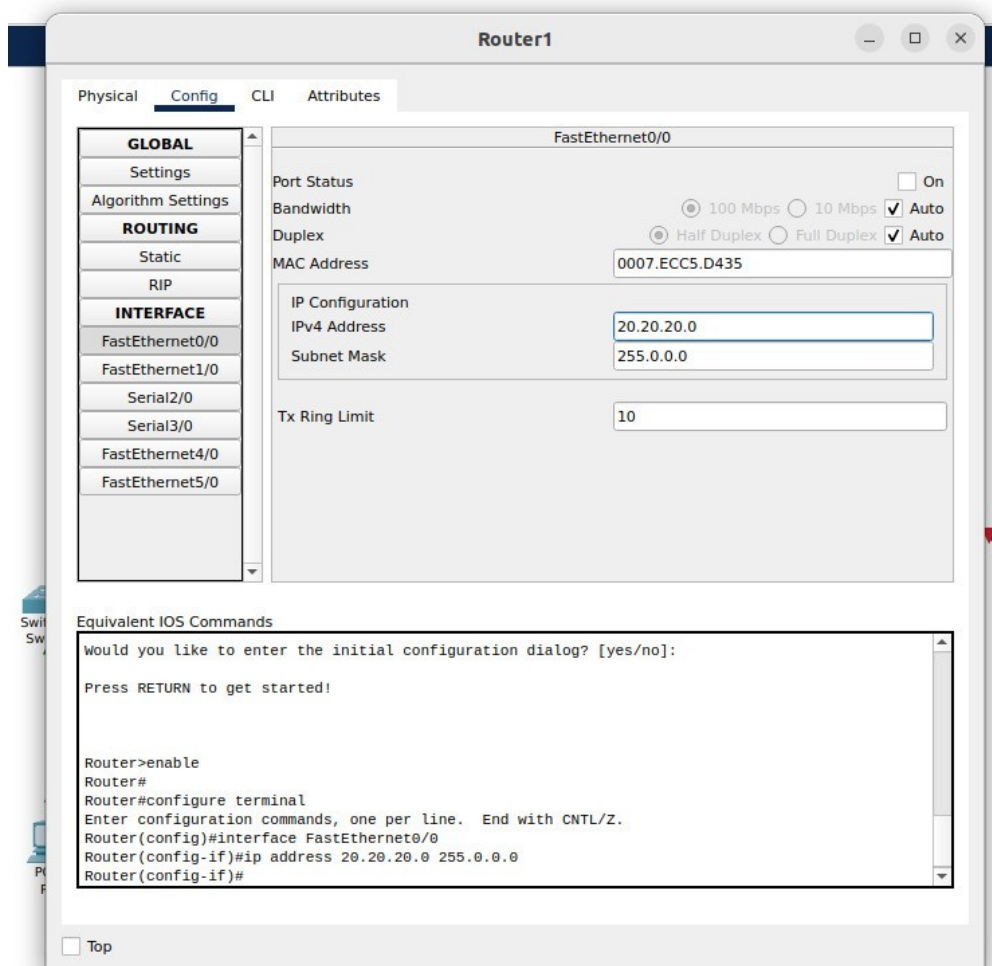
Step4: Configure the pc1 as shown in the picture.

Step5: Follow all the steps as shown in the picture in router 0.





Step6: Follow all the steps as shown in the picture in router 1.



Router1

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

Serial2/0

Port Status

On

Duplex

Full Duplex

Clock Rate

1200

IP Configuration

IPv4 Address

192.162.30.1

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)#ip address 20.20.20.0 255.0.0.0
Router(config-if)#ip address 20.20.20.0 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 192.162.30.1 255.255.255.0
Router(config-if)#
```

☐ Top

INTERFACE

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

IPv4 Address

192.162.10.1

Subnet Mask

255.255.255.0

Tx Ring Limit

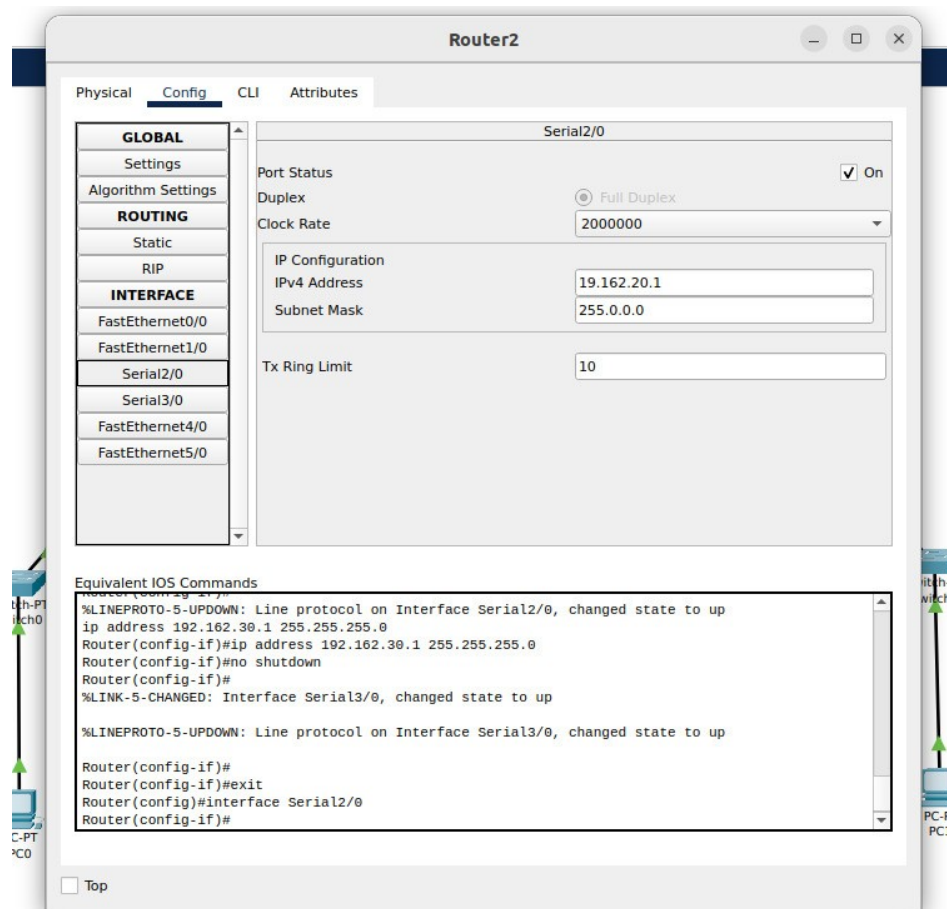
10

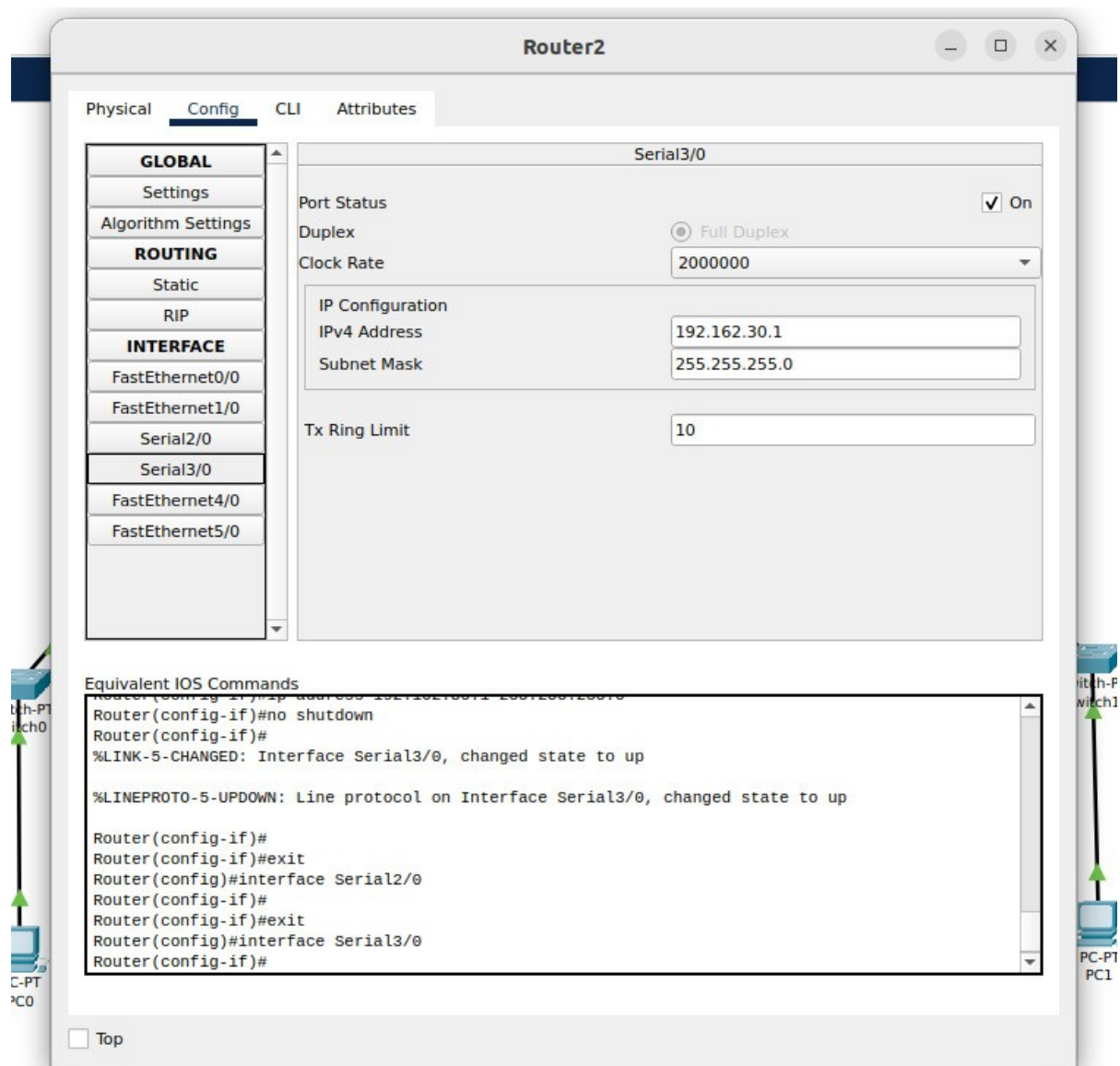
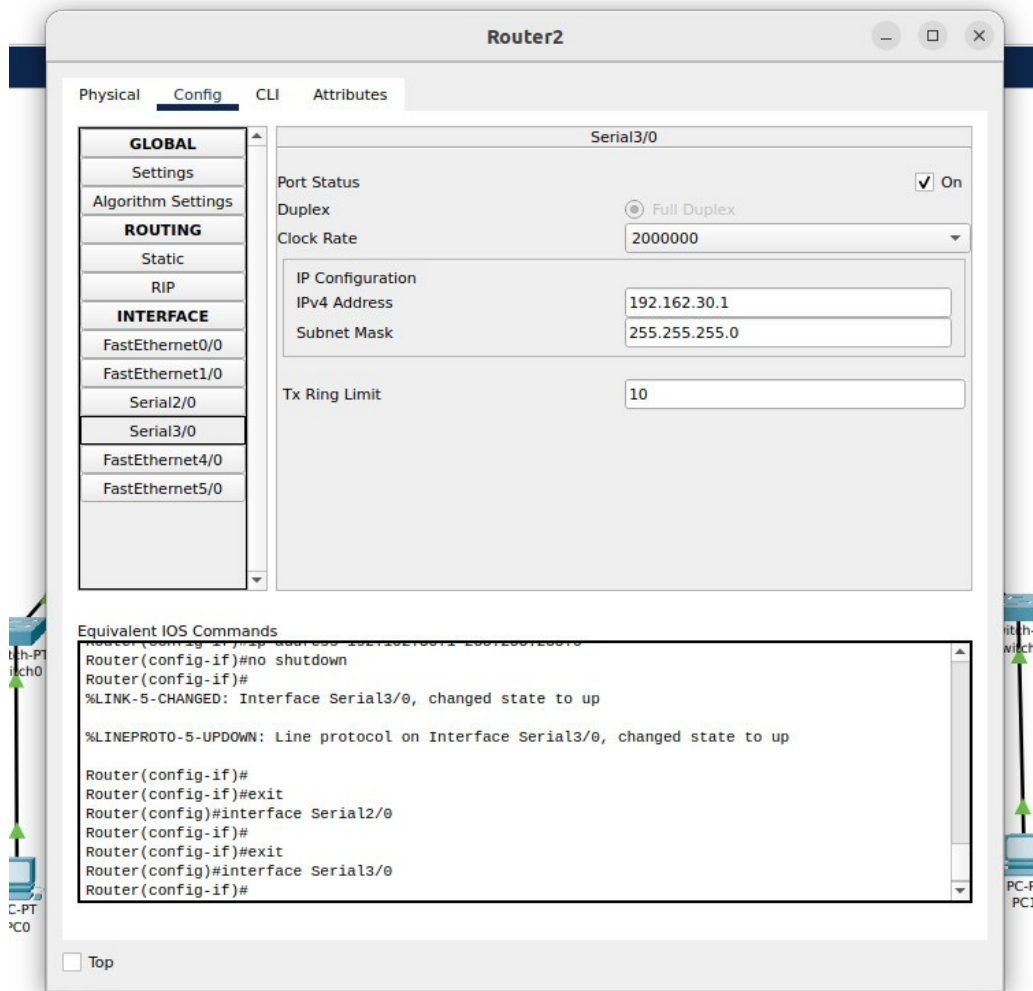
Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 20.20.20.0 255.0.0.0
Router(config-if)#ip address 20.20.20.0 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 192.162.30.1 255.255.255.0
Router(config-if)#ip address 192.162.30.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#ip address 192.162.10.1 255.255.255.0
Router(config-if)#
```

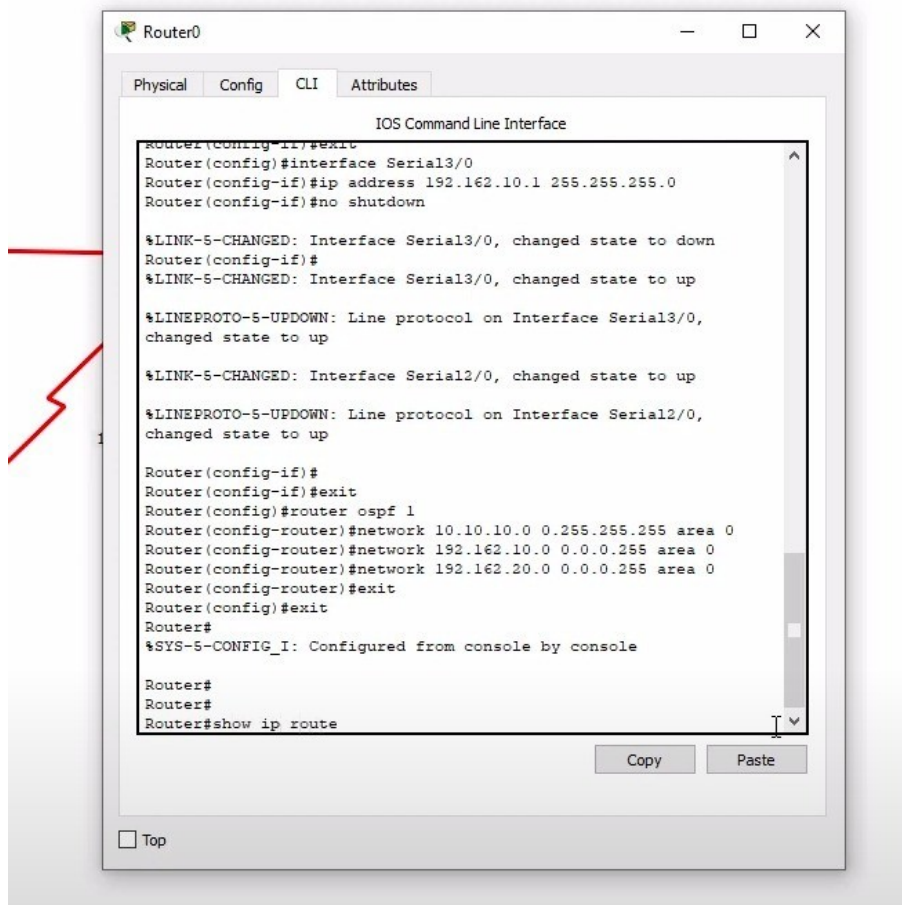
☐ Top

Step7: Follow all the steps as shown in the picture in router 2.





Step8: Follow all the steps as shown in the picture in router 0.



This

Follow

Comment:

exit

router ospf 1

network 10.10.10.0 0.255.255.255 area 0

network 192.162.10.0 0.0.0.255 area 0

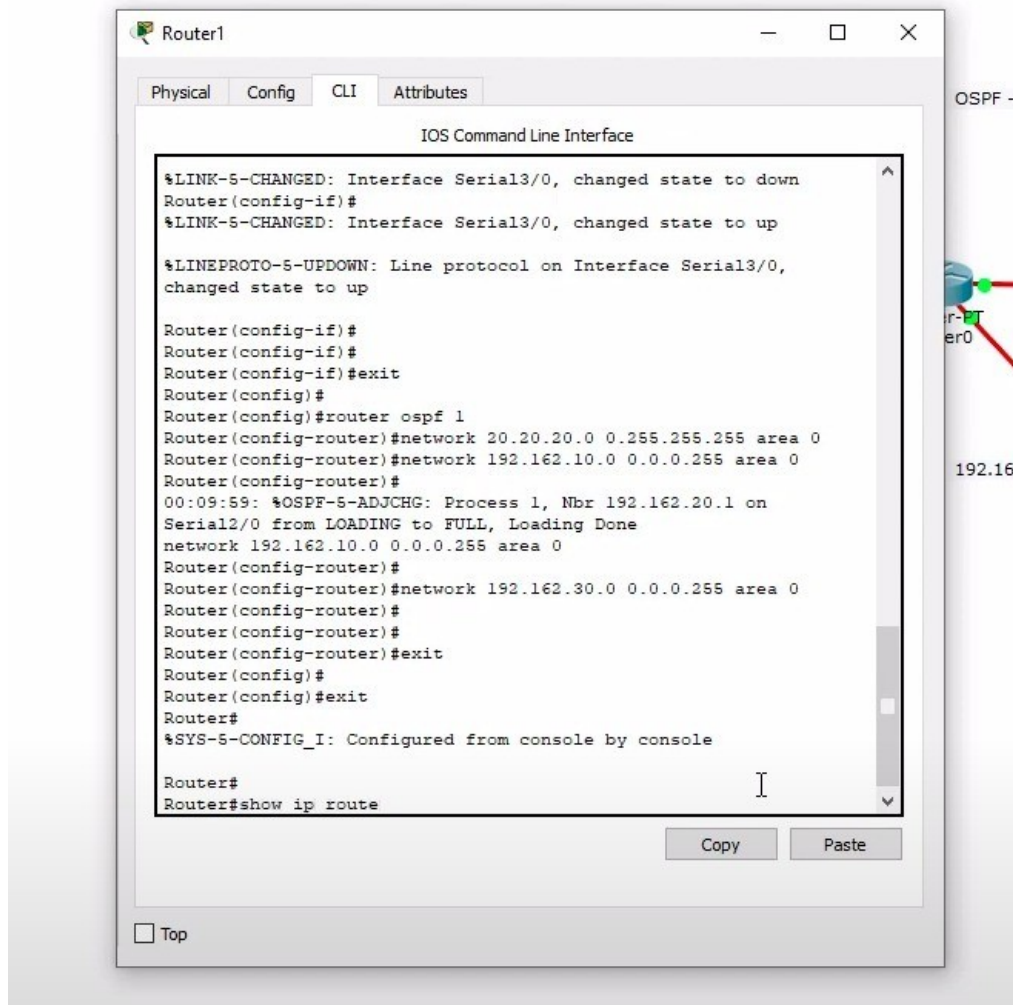
network 192.162.20.0 0.0.0.255 area 0

exit

exit

show ip route

Step9: Follow all the steps as shown in the picture in router 1.



Follow This Comment:

exit

router ospf 1

network 20.20.20.0 0.255.255.255 area 0

network 192.162.10.0 0.0.0.255 area 0

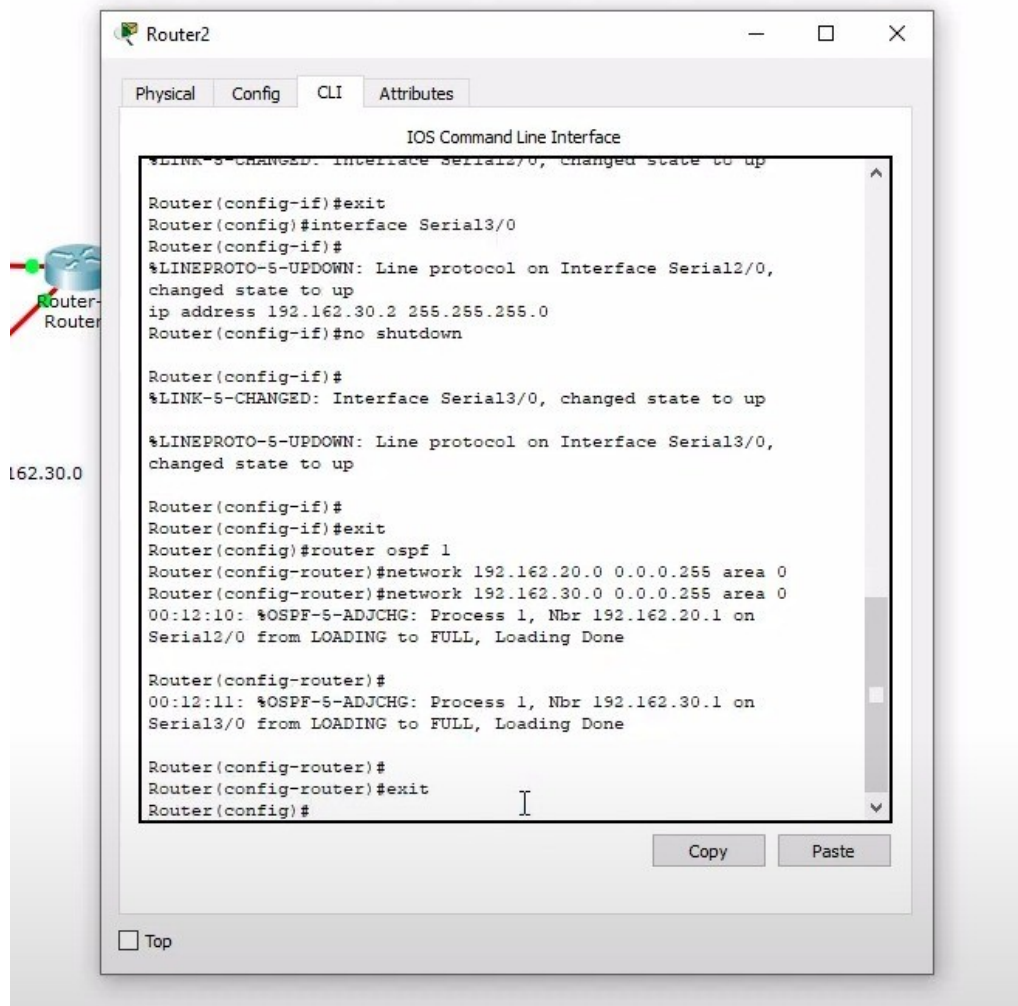
network 192.162.30.0 0.0.0.255 area 0

exit

exit

show ip route

Step10: Follow all the steps as shown in the picture in router 2.



Follow This Comment:

exit

router ospf 1

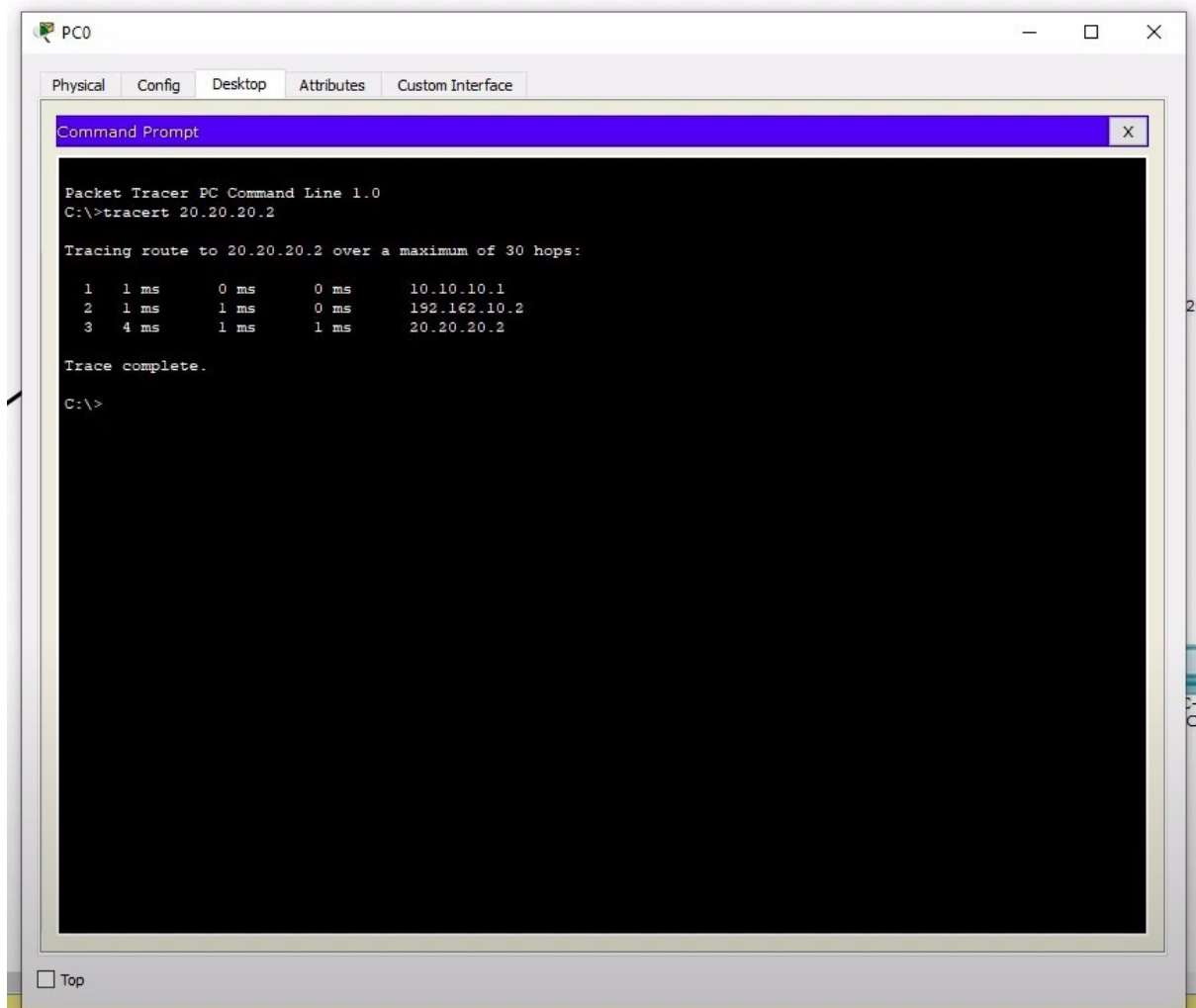
network 192.162.20.0 0.0.0.255 area 0

network 192.162.30.0 0.0.0.255 area 0

exit

exit

Step11: Follow all the steps as shown in the picture in terminal.



The screenshot shows a Packet Tracer PC Command Line window for PC0. The window has tabs for Physical, Config, Desktop, Attributes, and Custom Interface. The Command Prompt is open, displaying the following text:

```
Packet Tracer PC Command Line 1.0
C:\>tracert 20.20.20.2

Tracing route to 20.20.20.2 over a maximum of 30 hops:

  1  1 ms    0 ms    0 ms    10.10.10.1
  2  1 ms    1 ms    0 ms    192.162.10.2
  3  4 ms    1 ms    1 ms    20.20.20.2

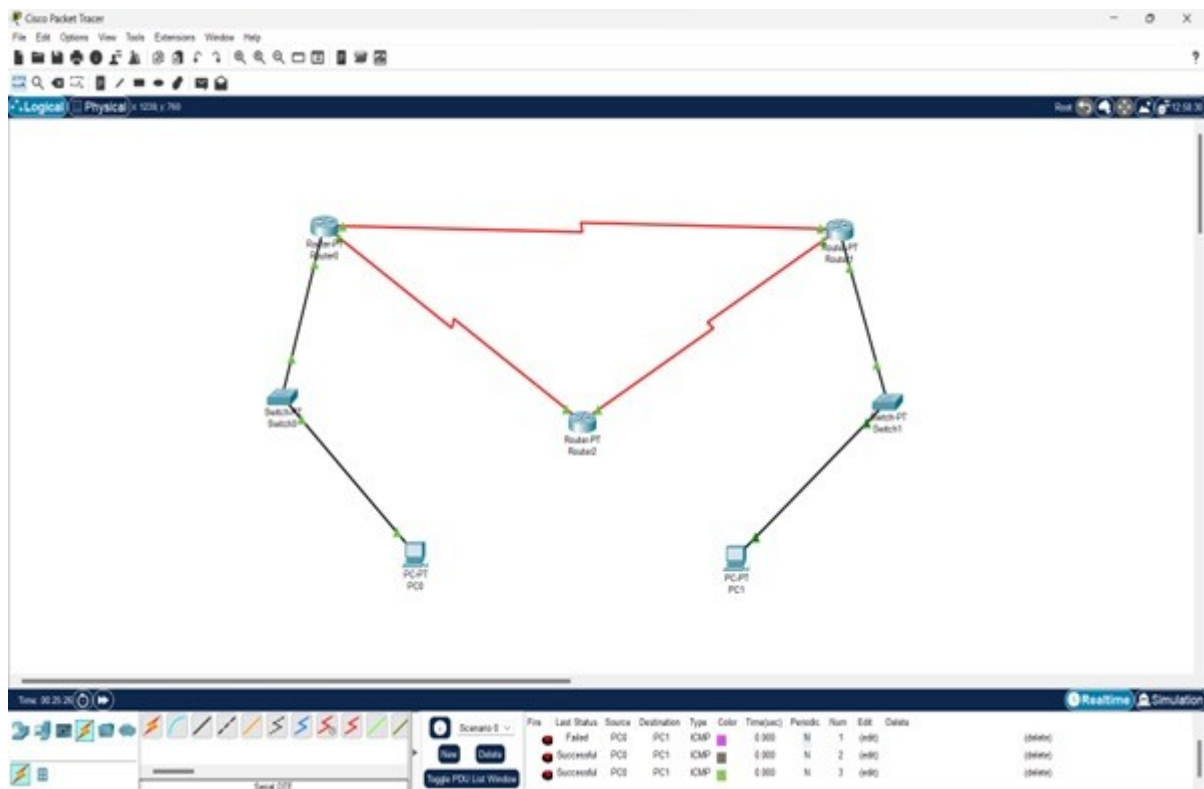
Trace complete.

C:\>
```

The output shows a successful traceroute to 20.20.20.2 over 3 hops. The first hop is 10.10.10.1, the second is 192.162.10.2, and the third is 20.20.20.2. The trace is complete.

Follow This Comment:

tracert 20.20.20.2



It should be something like this.

