

Exercise 3: Configuration of IP Address in Router

Objective: To demonstrate the configuration of IP Address in router

Pre-requisite: IP Address, Range of IP Address and Classes of IP Address

Components:

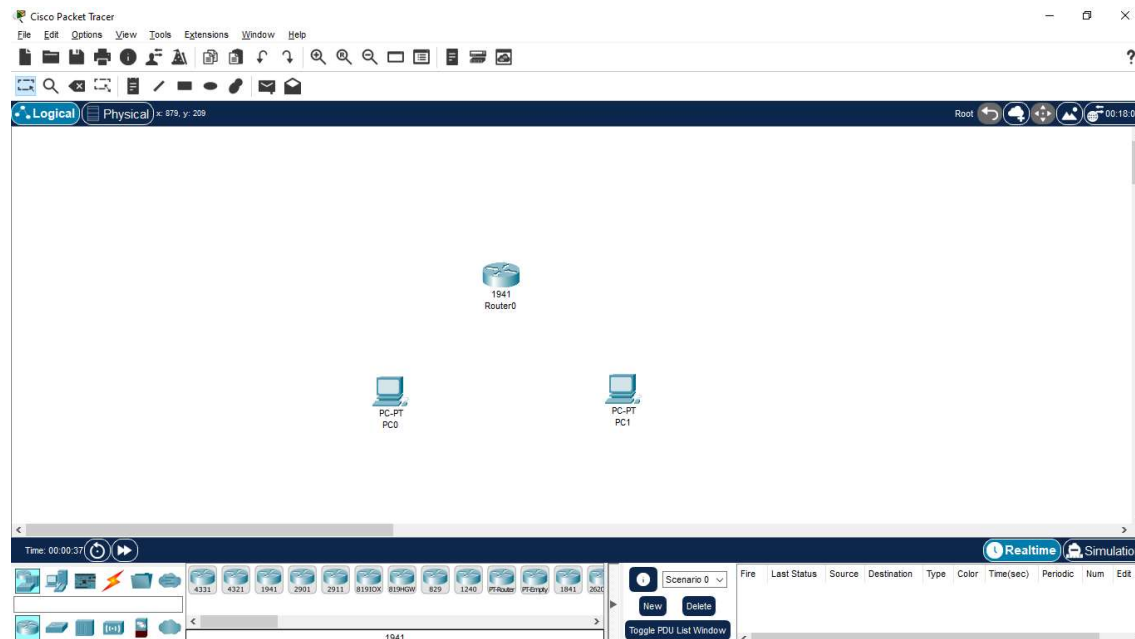
Devices	Required Nos
PCs	2
Copper cross-over Cables	2
Router	1

Addressing Table:

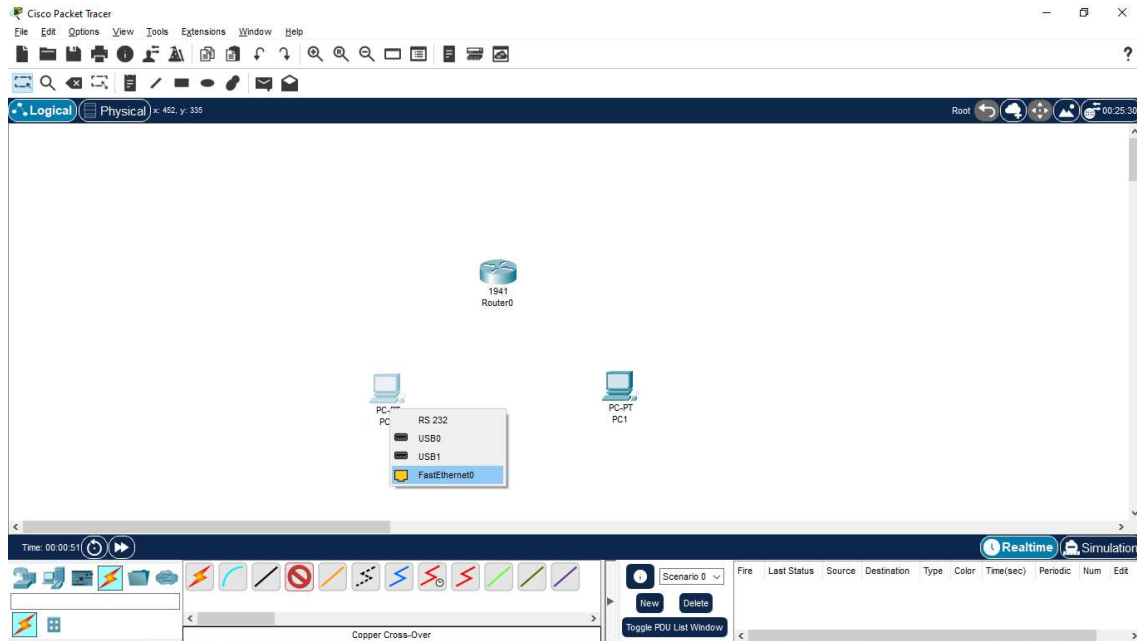
Device	Interface	IP Address	Subnet Mask	Gateway
PC0	Fa0/0	192.168.10.2	255.255.255.0	192.168.10.1
PC1	Fa0/0	192.168.11.2	255.255.255.0	192.168.11.1
Router0	Gigabit 0/0	192.168.10.1	255.255.255.0	-
Router0	Gigabit 0/1	192.168.11.1	255.255.255.0	-

Procedure:

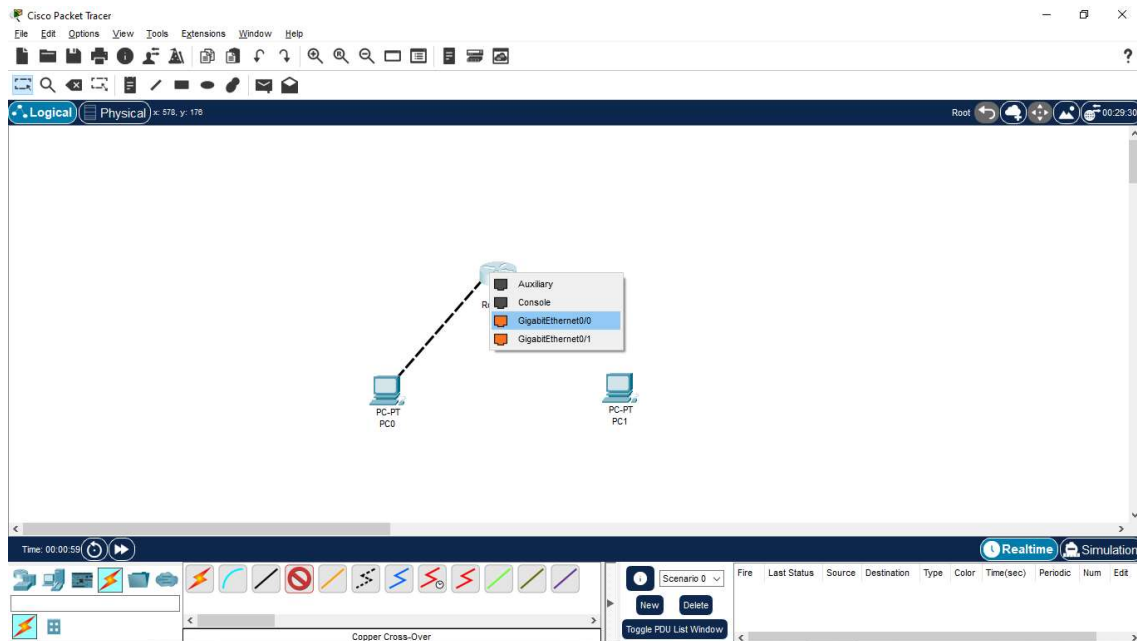
Step 1: Drag 2 PCs and a router in the console area.



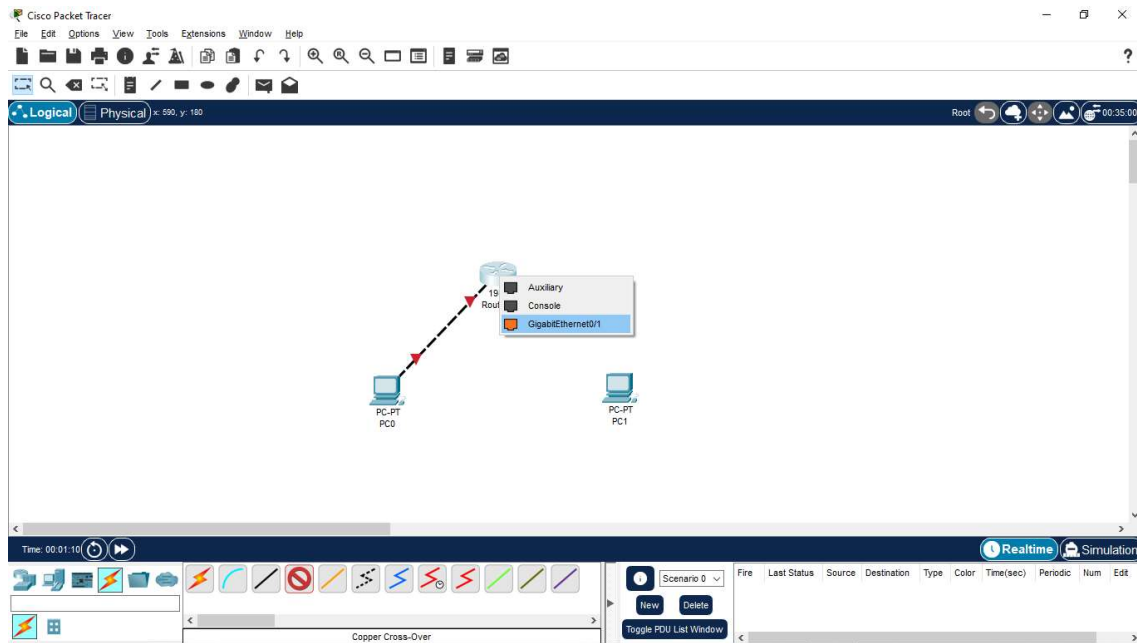
Step 2: Select Connectivity & Copper cross-over cable. Click on PC0 to get the interface options. Select Fa0/0



Step 3: Click on router0 to get the interface options and select GigabitEthernet0/0.



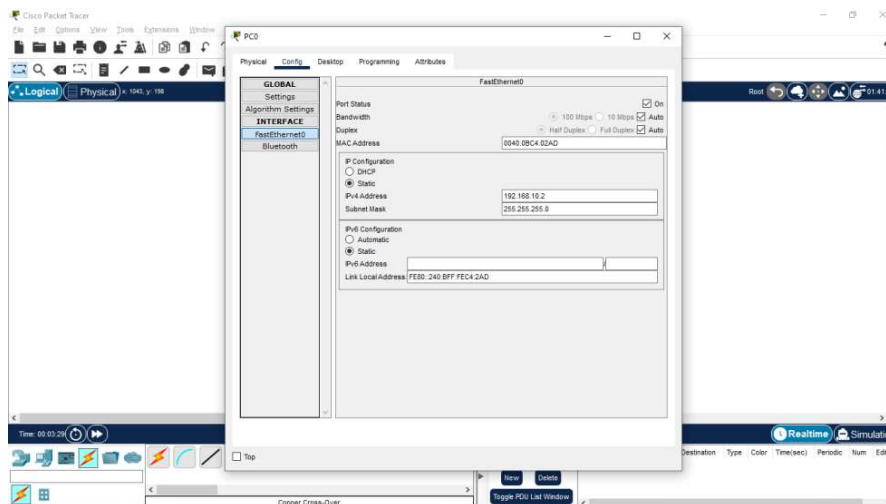
Step 4: Now PC0 and Router0 are physically connected. Again select copper cross-over cable and again click on Router0 to get the interface options and select GigabitEthernet0/1.



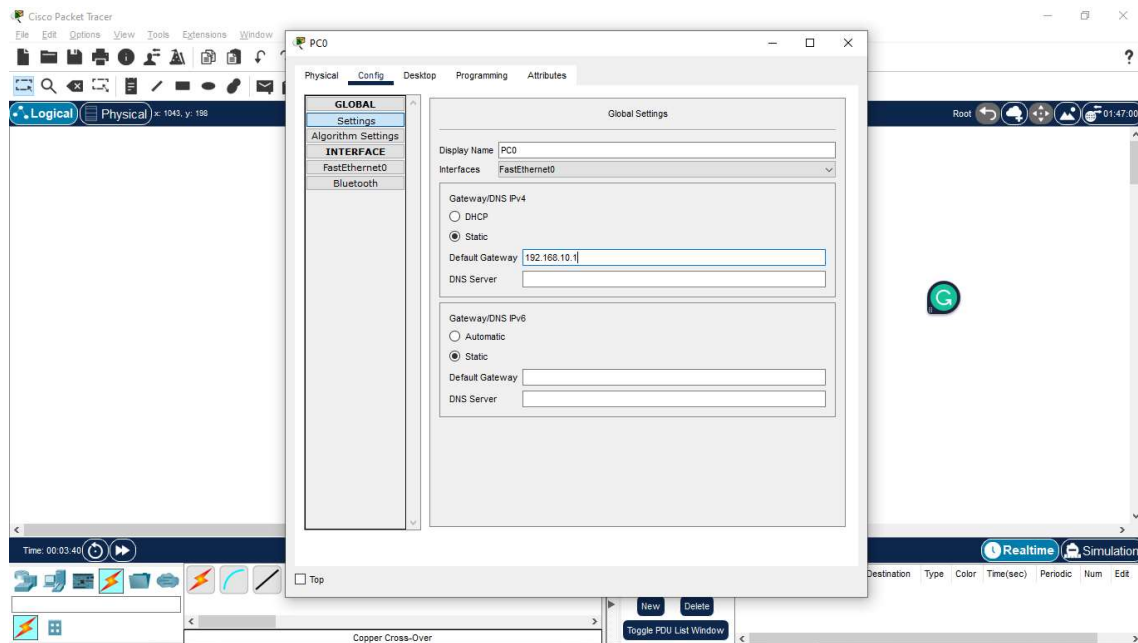
Step 5: Click on PC1 to get the interface options and select Fa0/0.

Step 6: Now the PCs are physically connected through Router. To establish logical connectivity,

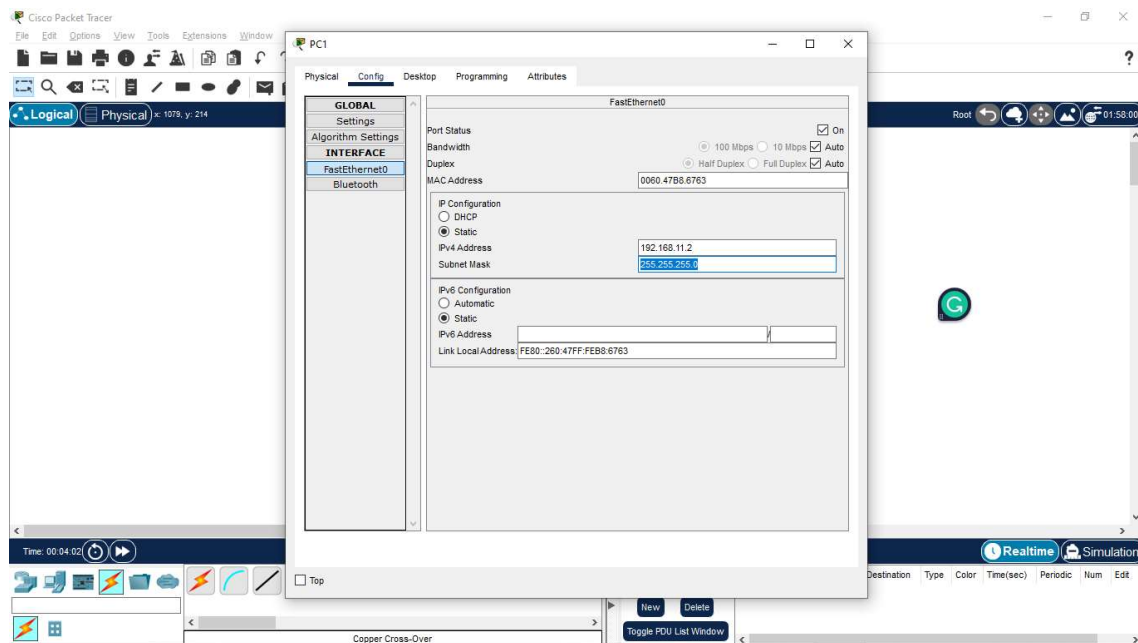
- Click on PC0.
- Select Config tab.
- Click on FastEthernet0/0 in the left pane.
- Configure the ip address 192.168.10.2 and subnet mask 255.255.255.0



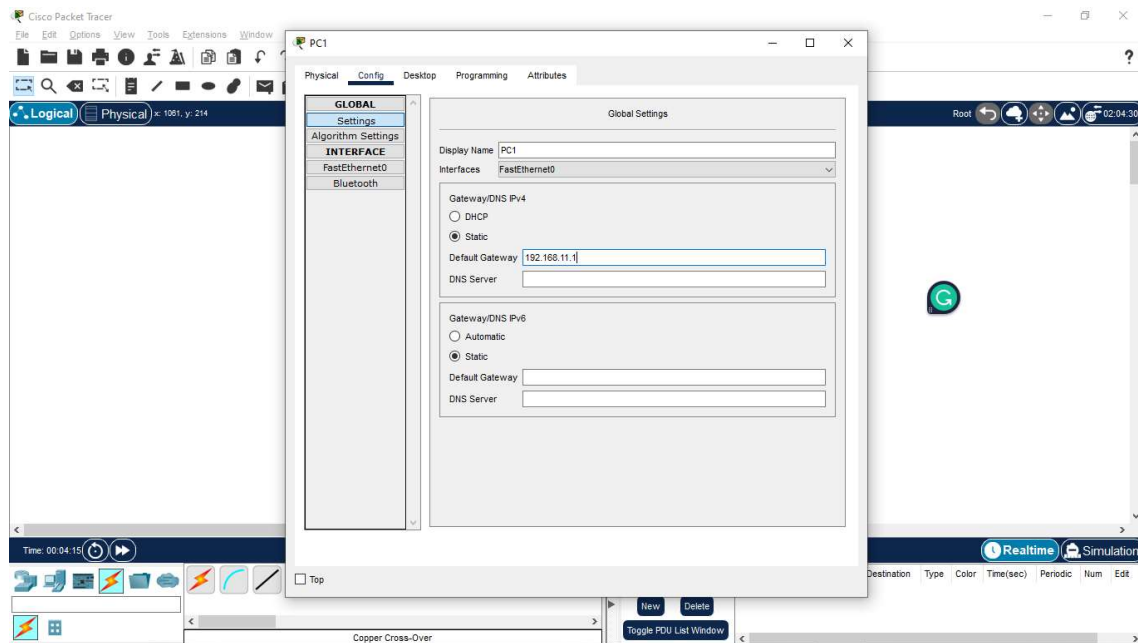
Step 7: Now click on settings and configure the gateway as 192.168.10.1



Step 8: Repeat the same procedure for PC1 and Configure the ip address 192.168.11.2 and subnet mask 255.255.255.0

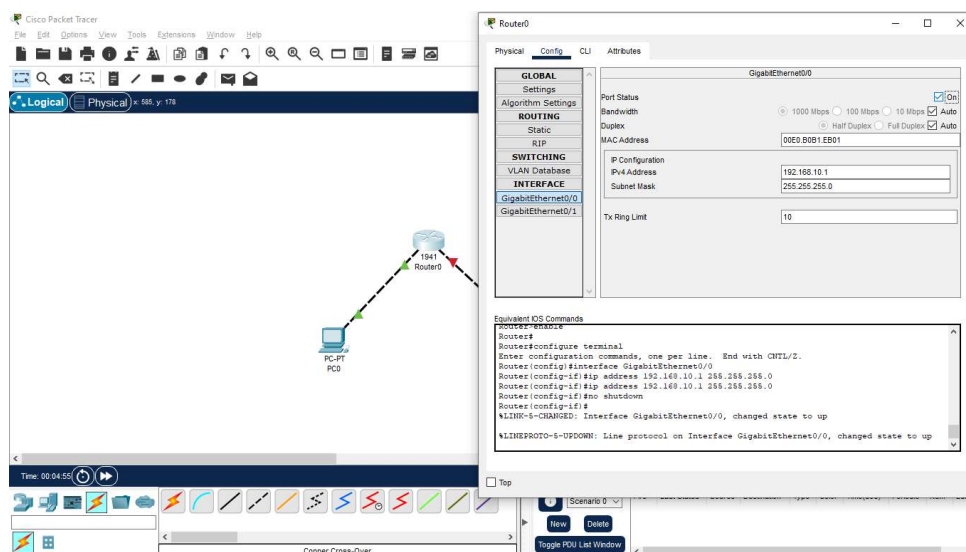


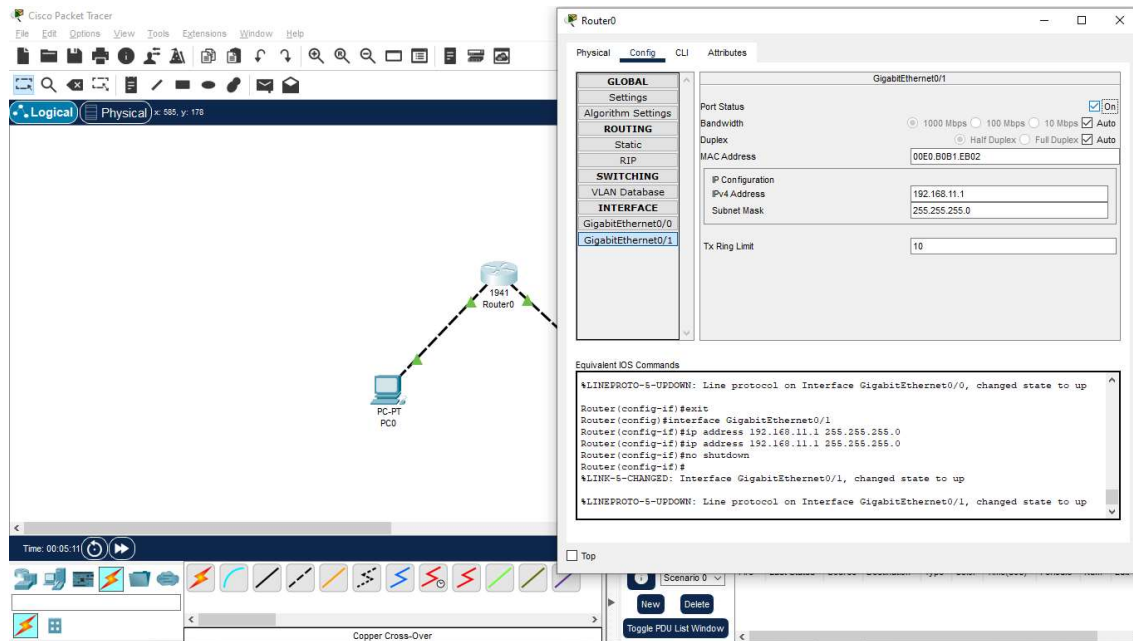
Step 9: Now click on settings and configure the gateway as 192.168.11.1



Step 10: Router configuration

- Click on Router0 and select Config tab.
- Click on GigabitEthernet0/0 in the left pane and configure the ip address 192.168.10.1 and subnet mask 255.255.255.0
- Click on GigabitEthernet0/1 in the left pane and configure the ip address 192.168.11.1 and subnet mask 255.255.255.0





Step 11: Now both the PCs are physically and logically connected. To check the logical connectivity,

- Click on PC1.
- Select Desktop tab.
- Click on Command Prompt icon.
- Type ping 192.168.10.2 to fetch the output as follows

