

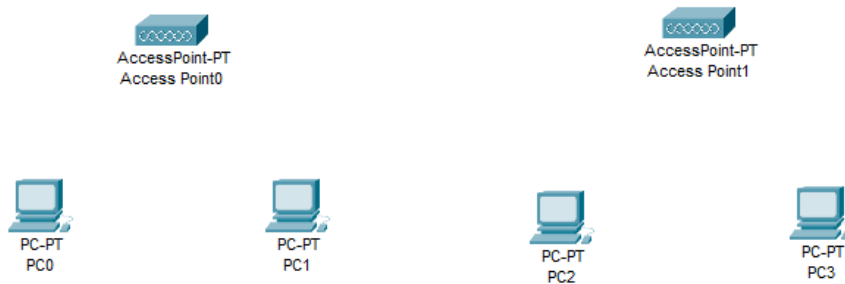
## Practical 7

### Aim: Configuring Basic AP Settings

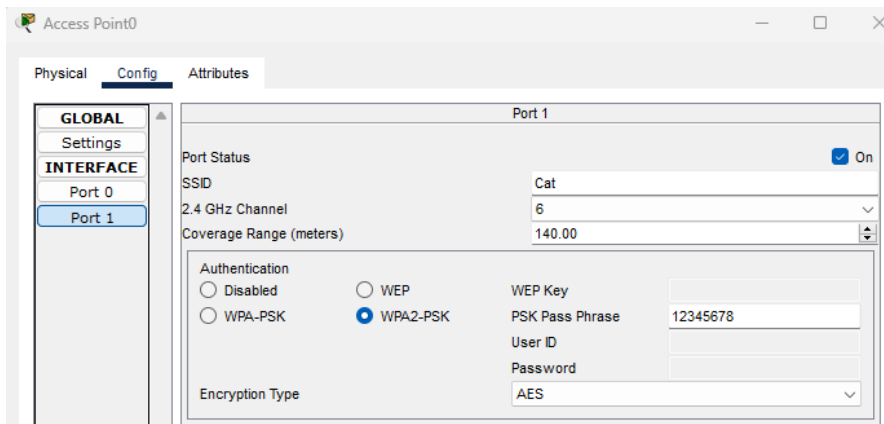
#### Components

- 2 AP-PT (Access Point)
- 4 PC
- 2 1841 Routers
- Copper Cross-Over wire
- Serial DTE wire

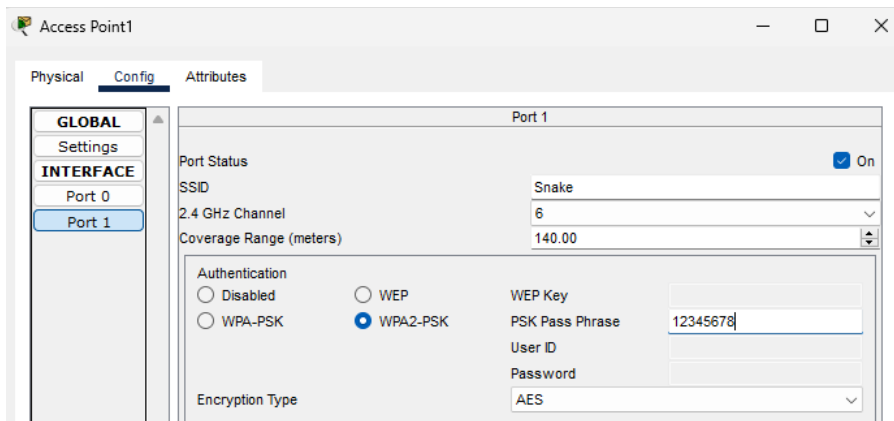
#### Configure the System



#### Configuring Access Point 0

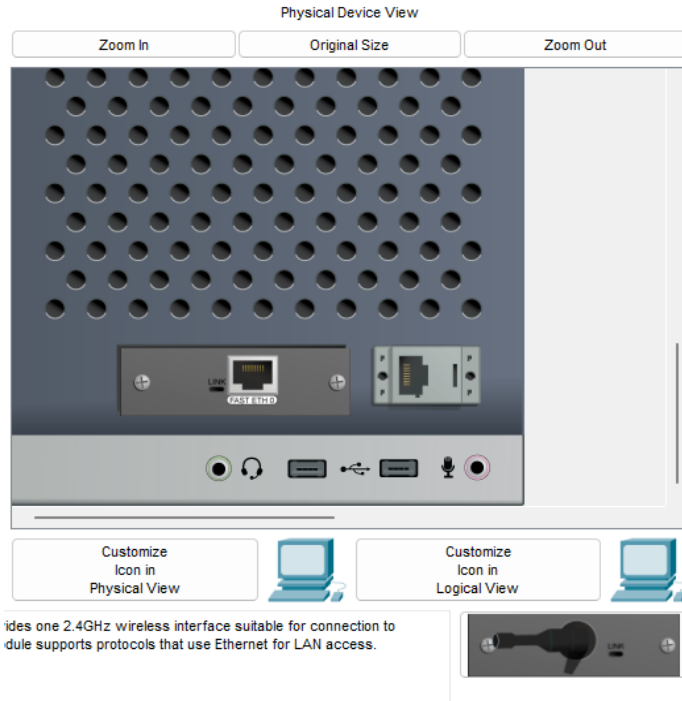


#### Configuring Access Point 1

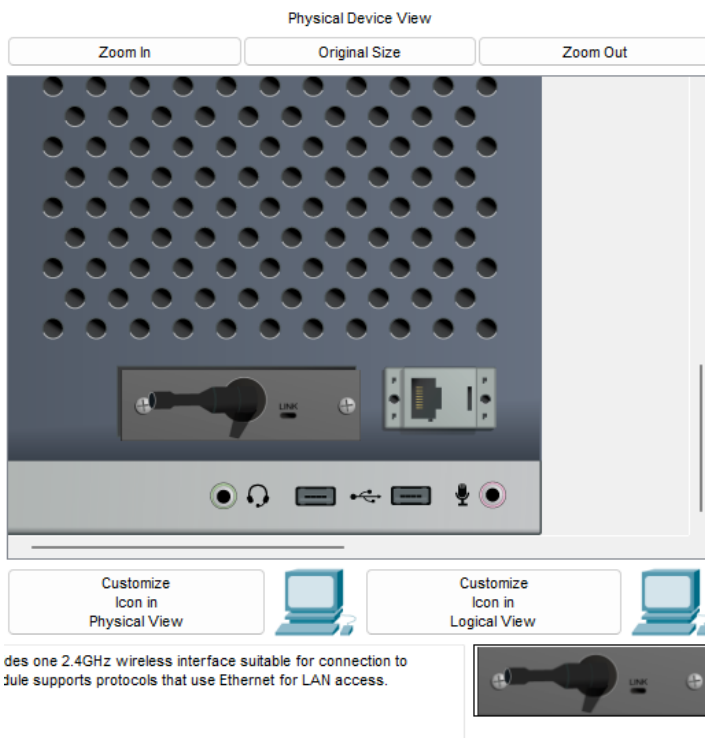


## Change wired component to wireless for ALL PC

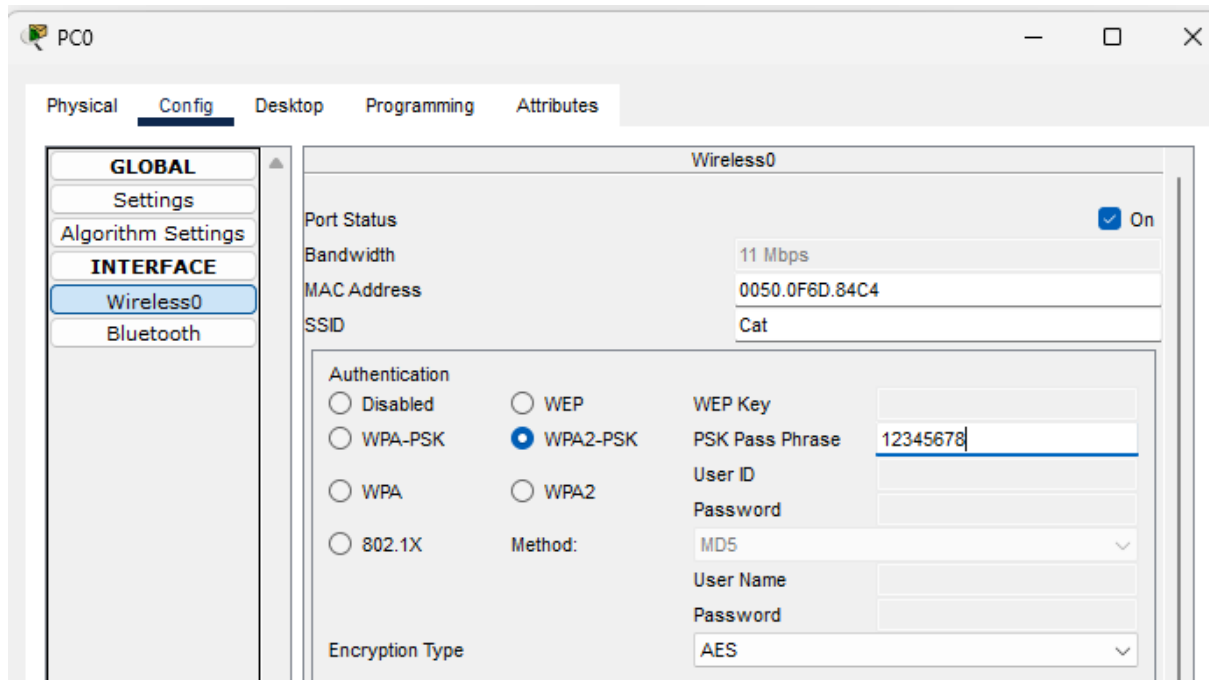
Click on the pc and **turn it off** and remove the existing **network component** and add the new one



After changing the component **turn on the PC**

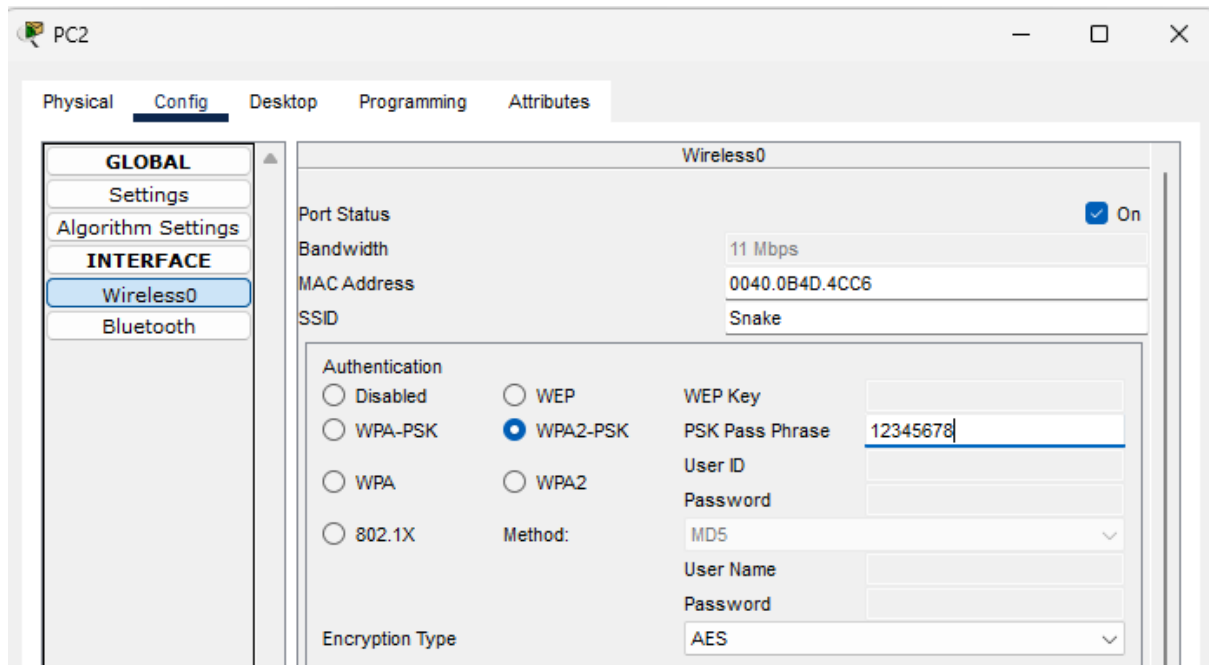


## Connect PC0 and PC1 to Access Point0

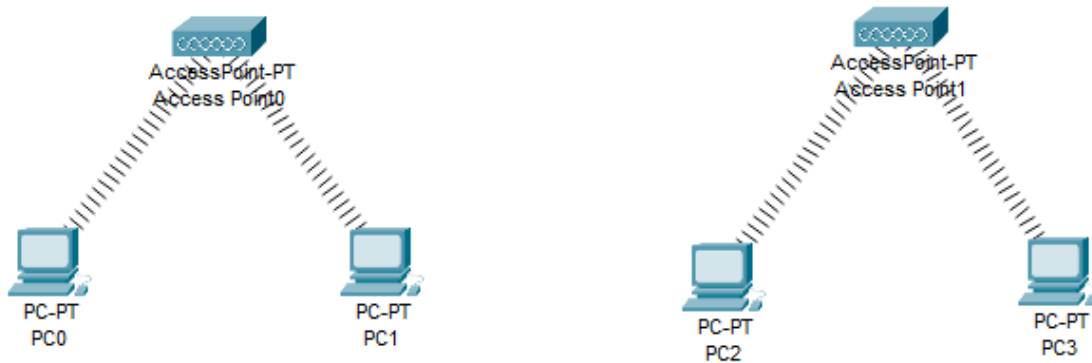


Do the same for PC1

## Connect PC2 and PC3 to Access Point1



Do the same for PC3



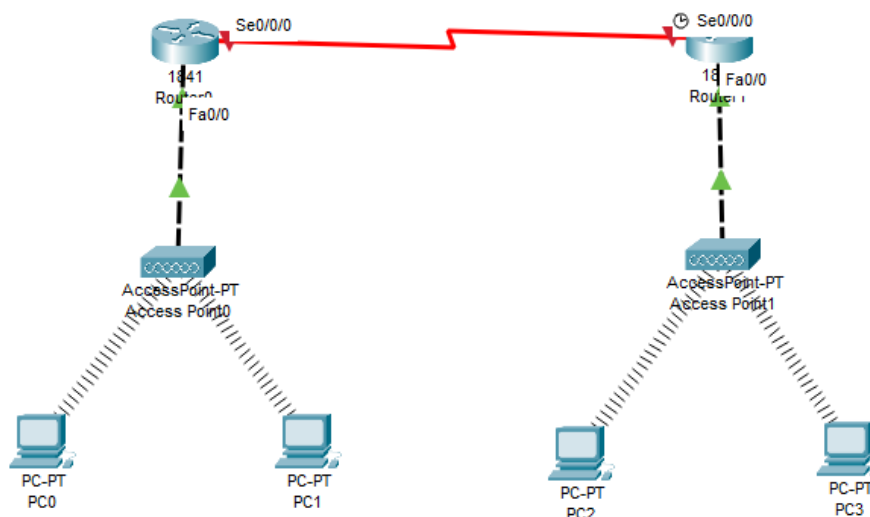
### Checking Connection from PC0 to PC1

Realtime Simulation											
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
●	Successful	PC0	PC1	ICMP	■	0.000	N	0	(edit)	(delete)	

### Checking Connection from PC2 to PC3

Realtime Simulation											
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete	
●	Successful	PC2	PC3	ICMP	■	0.000	N	0	(edit)	(delete)	

### Add 2 1841 Routers



## Configure Router0

The screenshot shows the configuration window for Router0, specifically for the FastEthernet0/0 interface. The interface is selected in the left-hand menu under the 'INTERFACE' section. The configuration details are as follows:

Parameter	Value
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0007.EC80.2001
IP Configuration	
IPv4 Address	192.168.1.1
Subnet Mask	255.255.255.0
Tx Ring Limit	10

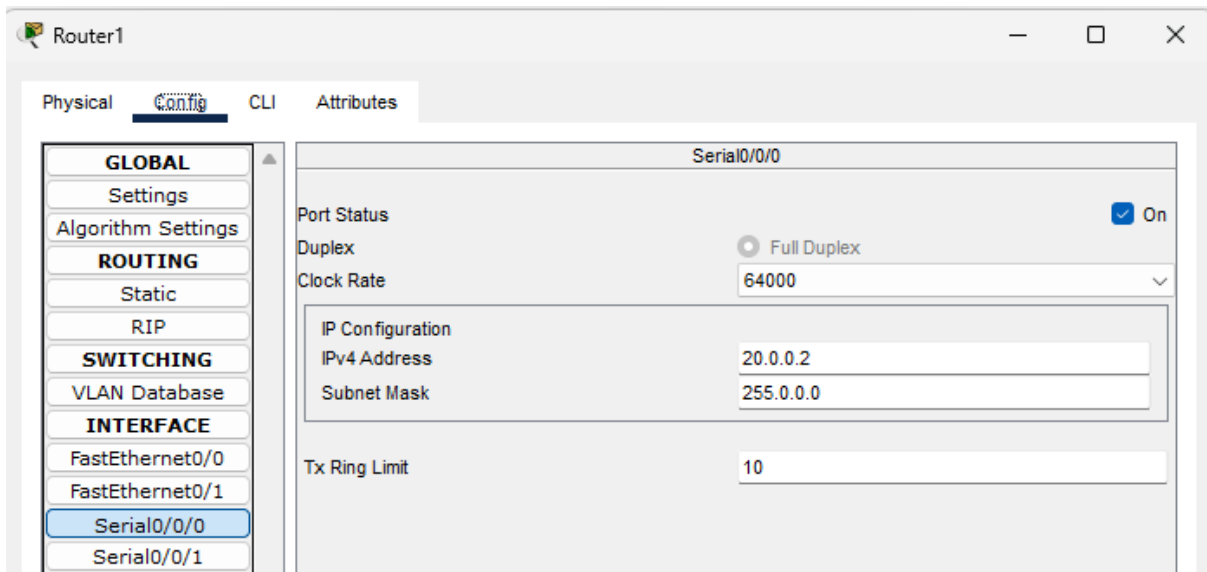
The screenshot shows the configuration window for Router0, specifically for the Serial0/0/0 interface. The interface is selected in the left-hand menu under the 'INTERFACE' section. The configuration details are as follows:

Parameter	Value
Port Status	<input checked="" type="checkbox"/> On
Duplex	<input type="radio"/> Full Duplex
Clock Rate	64000
IP Configuration	
IPv4 Address	20.0.0.1
Subnet Mask	255.0.0.0
Tx Ring Limit	10

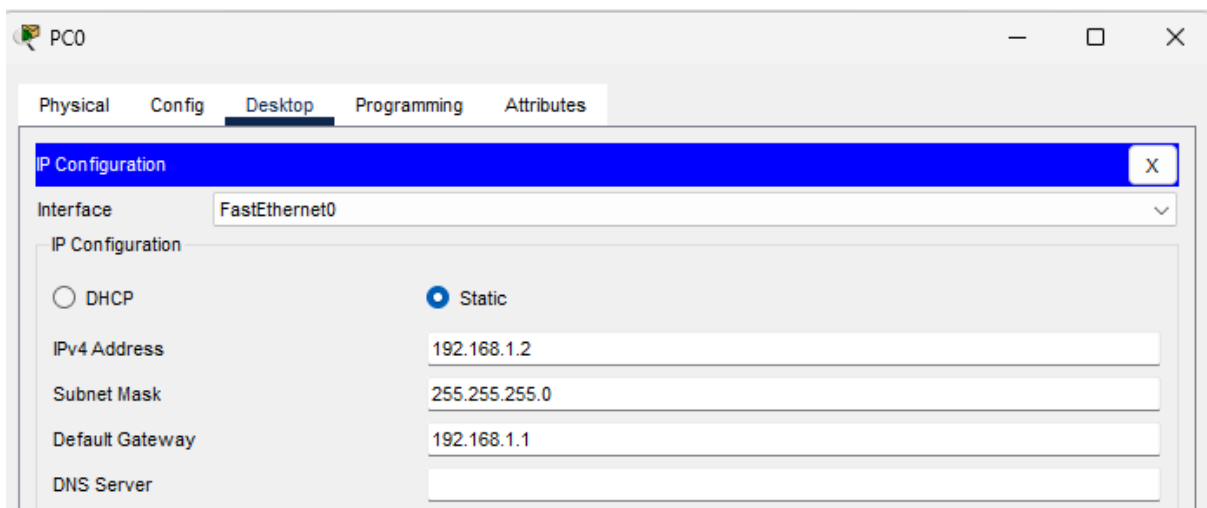
## Configure Router1

The screenshot shows the configuration window for Router1, specifically for the FastEthernet0/0 interface. The interface is selected in the left-hand menu under the 'INTERFACE' section. The configuration details are as follows:

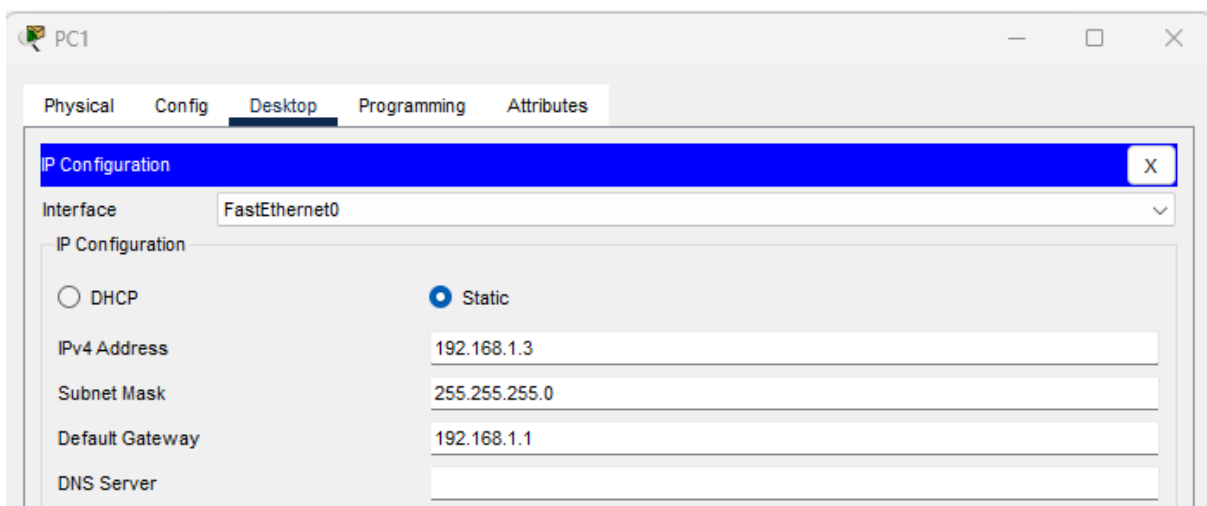
Parameter	Value
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	0001.C991.0A01
IP Configuration	
IPv4 Address	172.16.10.1
Subnet Mask	255.255.0.0
Tx Ring Limit	10



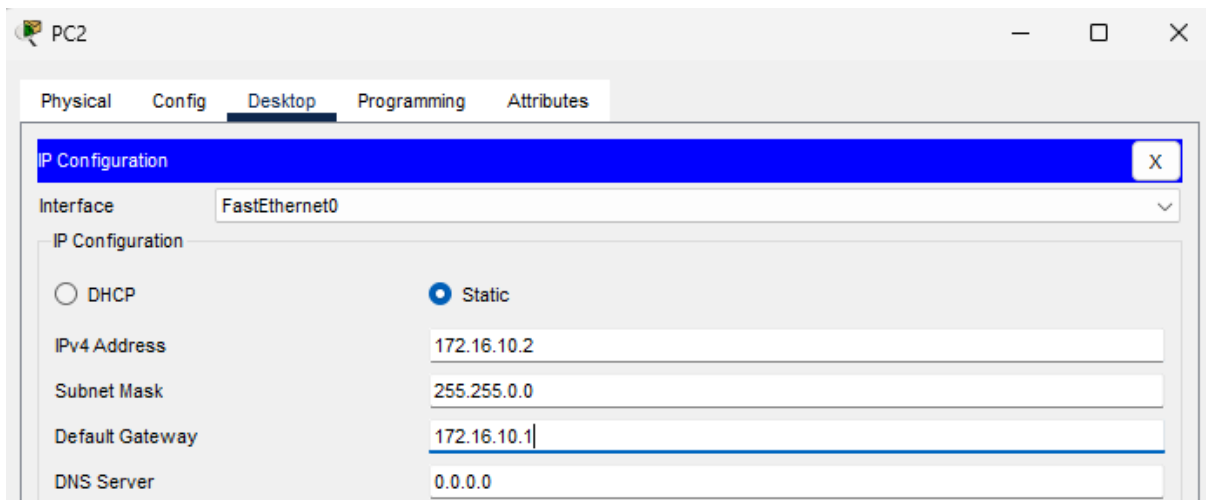
## Configure PC0



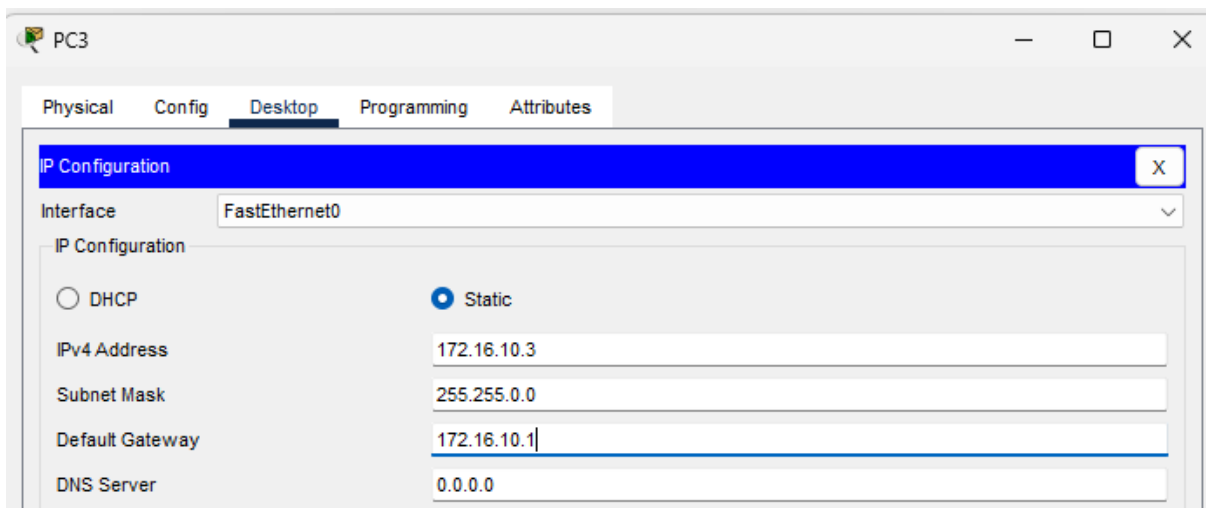
## Configure PC1



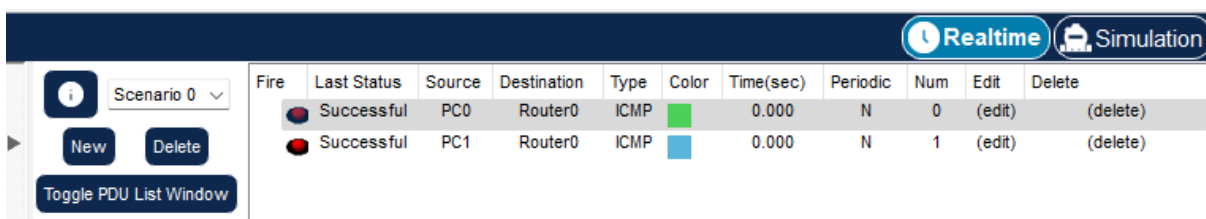
## Configure PC2



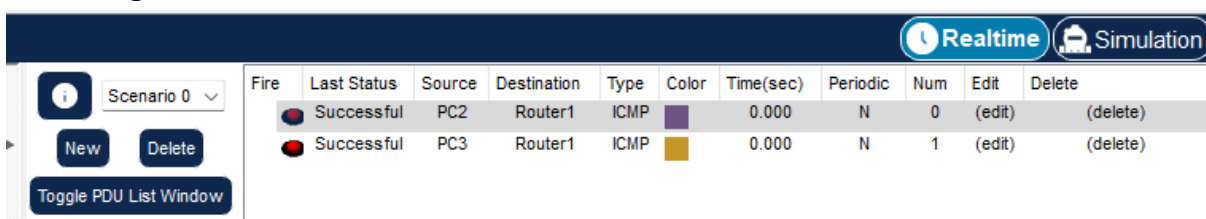
## Configuring PC3



## Checking Connection from PC0 & PC1 to Router0



## Checking Connection from PC2 & PC3 to Router1



## Setting RIP protocol in both router

Switch to version 2

### Router0

The screenshot shows the configuration window for Router0. The 'Config' tab is active, and the 'RIP' option under the 'ROUTING' section is selected. The 'RIP Routing (v2)' configuration area is visible, showing a 'Network' field with a value of '20.0.0.0' and an 'Add' button. Below this, a table lists the network addresses: 20.0.0.0 and 192.168.1.0.

### Router1

The screenshot shows the configuration window for Router1. The 'Config' tab is active, and the 'RIP' option under the 'ROUTING' section is selected. The 'RIP Routing (v2)' configuration area is visible, showing a 'Network' field with a value of '20.0.0.0' and an 'Add' button. Below this, a table lists the network addresses: 20.0.0.0 and 172.16.0.0.

## Checking connection between PC1 to PC3

The screenshot shows the simulation interface. The 'Realtime' mode is selected. A table displays the connection status between PC1 and PC3. The table has columns for 'Fire', 'Last Status', 'Source', 'Destination', 'Type', 'Color', 'Time(sec)', 'Periodic', 'Num', 'Edit', and 'Delete'. The row shows a successful connection with a status of 'Successful', source 'PC0', destination 'PC3', and type 'ICMP'.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC3	ICMP		0.000	N	0	(edit)	(delete)