

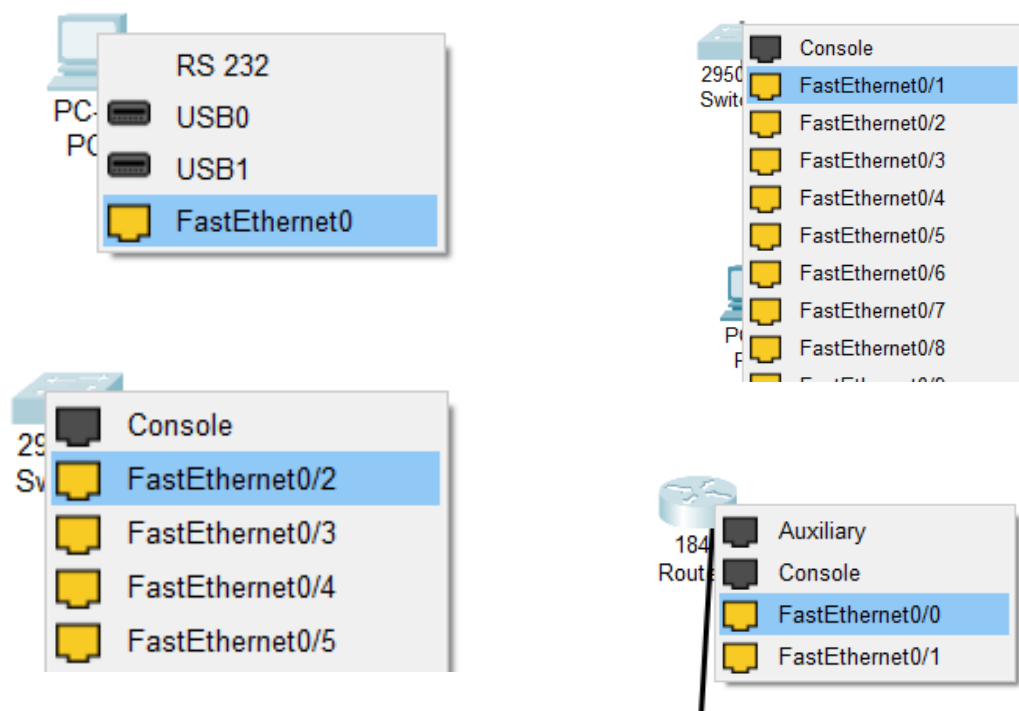
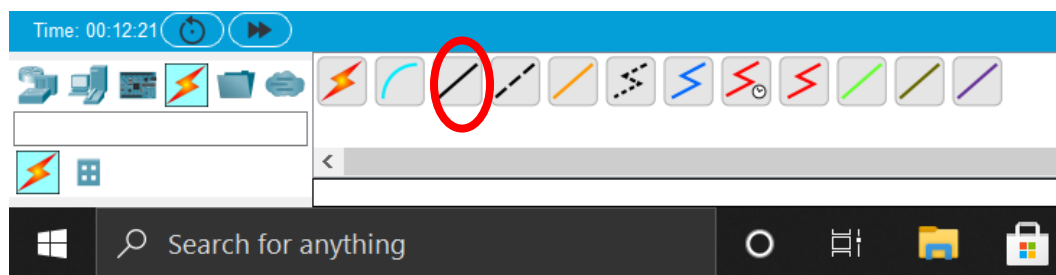
Department of Computer Engineering TE Computer-A (2020-21 Sem I) Computer Networks Practical Assignment B3 [Max Marks: 10]

Submitted by : Himanshu Shekhar Padhi (3325)

➤ RIP(Routing Information Protocol) PROTOCOL

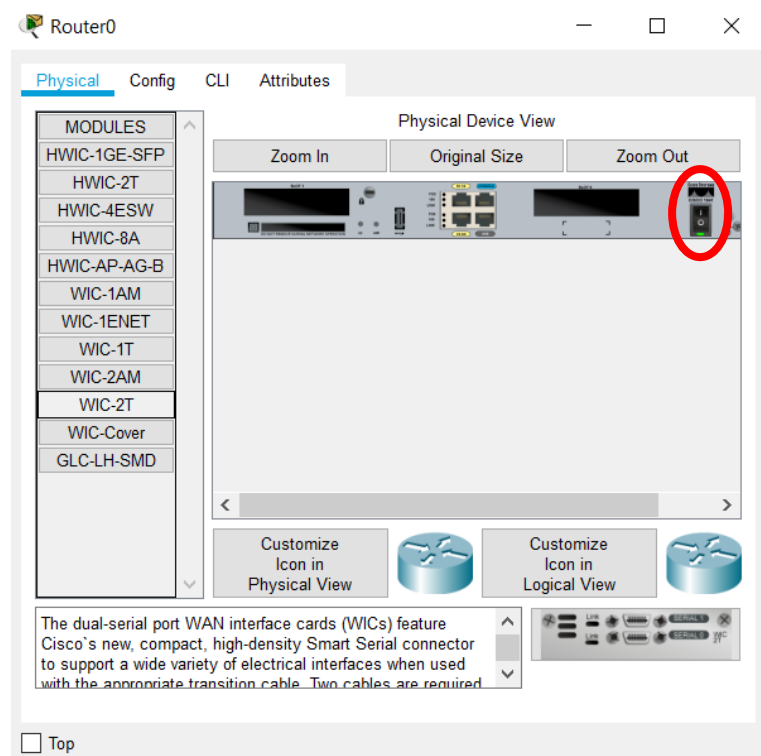
Network Topology (RIP)

1. Drag and drop PC from End Devices.
2. Drag and drop switch(2950-24) for each network and router(1841) for each network.
3. Connect the PC and switch using Copper straight through cable in fast ethernet ports of both PC and switch.
4. Repeat Step 3 to connect switch to router.

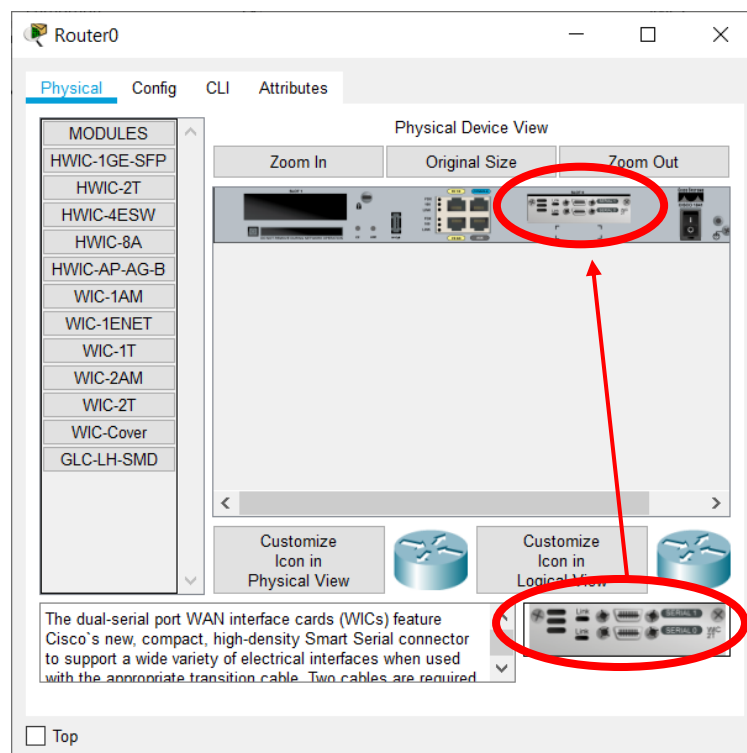


5. As by default not many ports are available on routers, we need to add some extra serial ports to form the network.

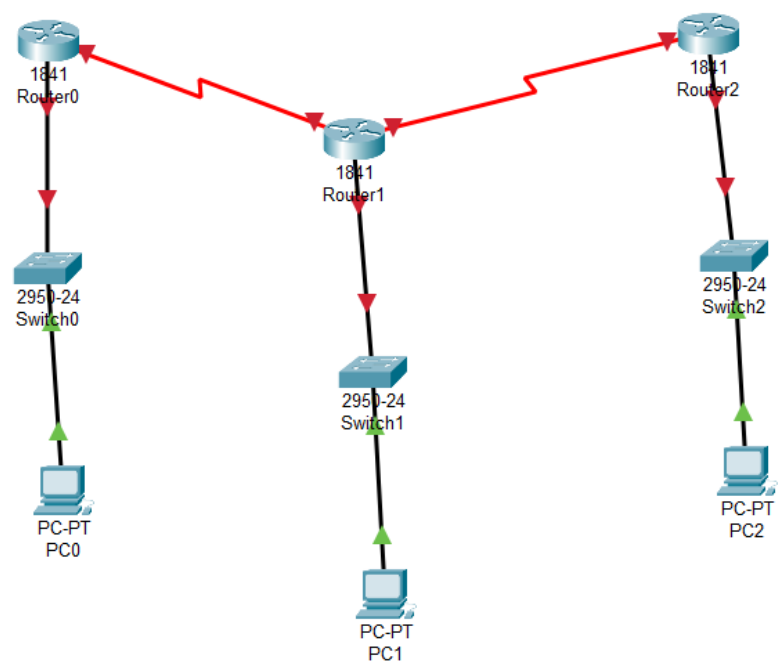
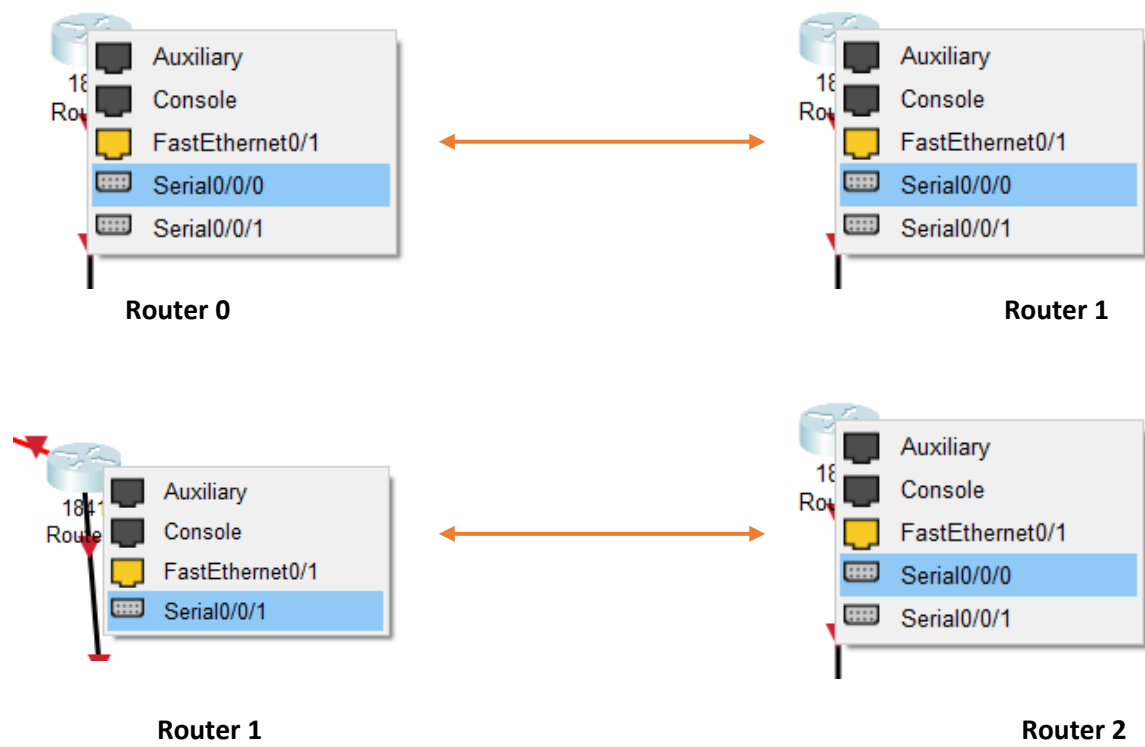
6. To add the serial ports click on the router go to PHYSICAL ----> WIC-2T.
7. Turn off the router by toggling(click) the switch.(FOR ALL ROUTERS)



8. Now Drag and drop the ports image from bottom just to the left of switch.



9. Now toggle(click) the switch to turn on the router.
10. Now to connect the routers select the **serial DTE cable** and connect the routers using the serial ports.

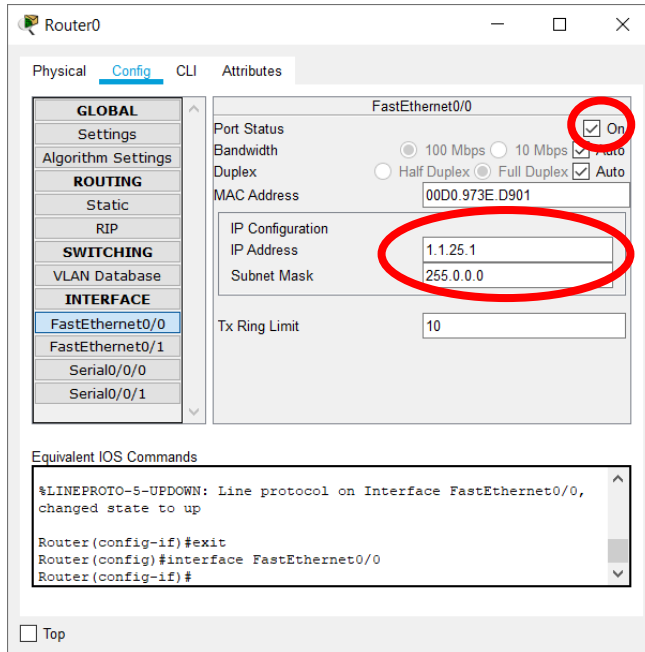


NETWORK

Ip Address Configuration (RIP)

ADDING gateway in router

1. Click on the router.
2. Go to Config -> Fast ethernet 0/0.
3. Then add the gateway for each network in all the routers.
4. Then turn on the port.



Router0 configuration window showing the FastEthernet0/0 interface settings. The interface is configured with IP Address 1.1.25.1 and Subnet Mask 255.0.0.0. The Port Status is set to On. The MAC Address is 00D0.973E.D901. The Tx Ring Limit is 10. The configuration is saved, and the Equivalent IOS Commands are displayed at the bottom.

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00D0.973E.D901

IP Configuration

IP Address 1.1.25.1

Subnet Mask 255.0.0.0

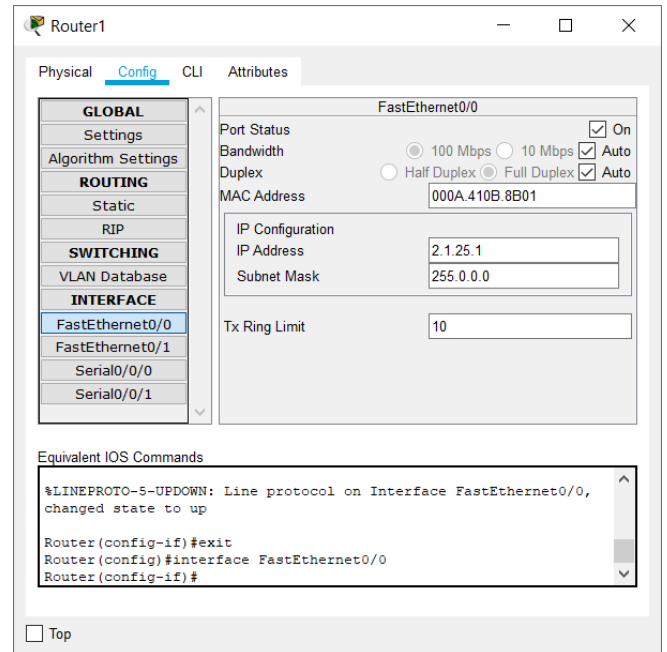
Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

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

☐ Top



Router1 configuration window showing the FastEthernet0/0 interface settings. The interface is configured with IP Address 2.1.25.1 and Subnet Mask 255.0.0.0. The Port Status is set to On. The MAC Address is 000A.410B.8B01. The Tx Ring Limit is 10. The configuration is saved, and the Equivalent IOS Commands are displayed at the bottom.

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 000A.410B.8B01

IP Configuration

IP Address 2.1.25.1

Subnet Mask 255.0.0.0

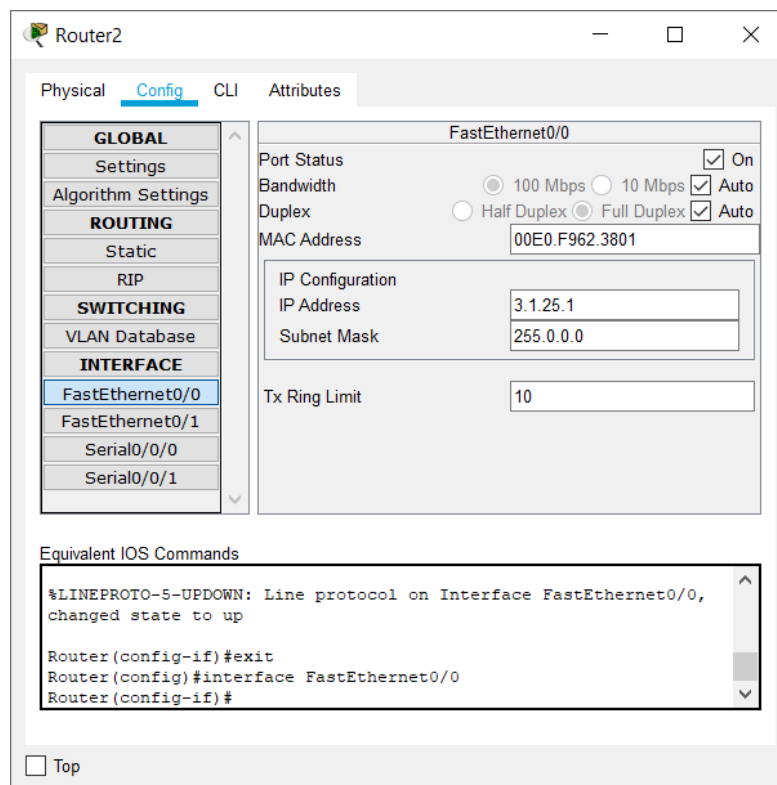
Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

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

☐ Top



Router2 configuration window showing the FastEthernet0/0 interface settings. The interface is configured with IP Address 3.1.25.1 and Subnet Mask 255.0.0.0. The Port Status is set to On. The MAC Address is 00E0.F962.3801. The Tx Ring Limit is 10. The configuration is saved, and the Equivalent IOS Commands are displayed at the bottom.

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00E0.F962.3801

IP Configuration

IP Address 3.1.25.1

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

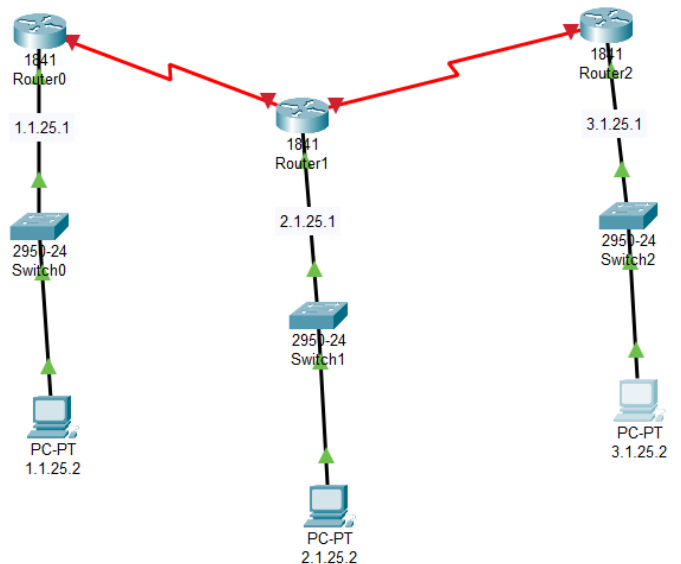
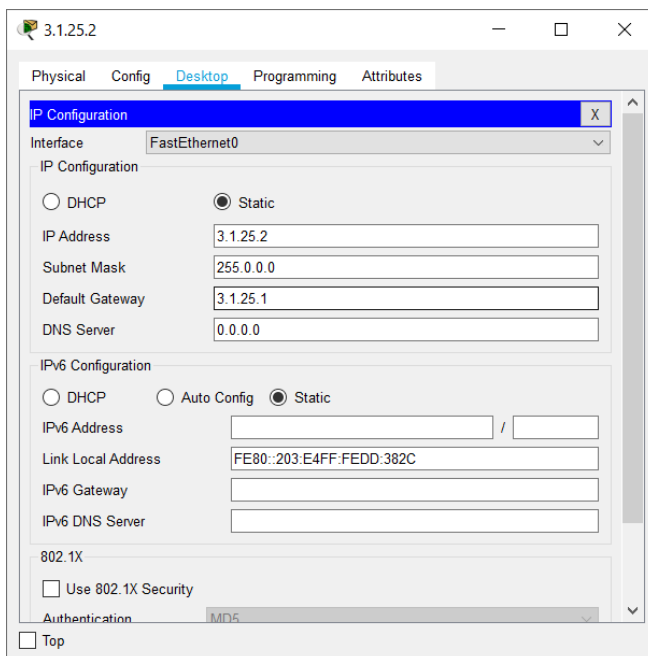
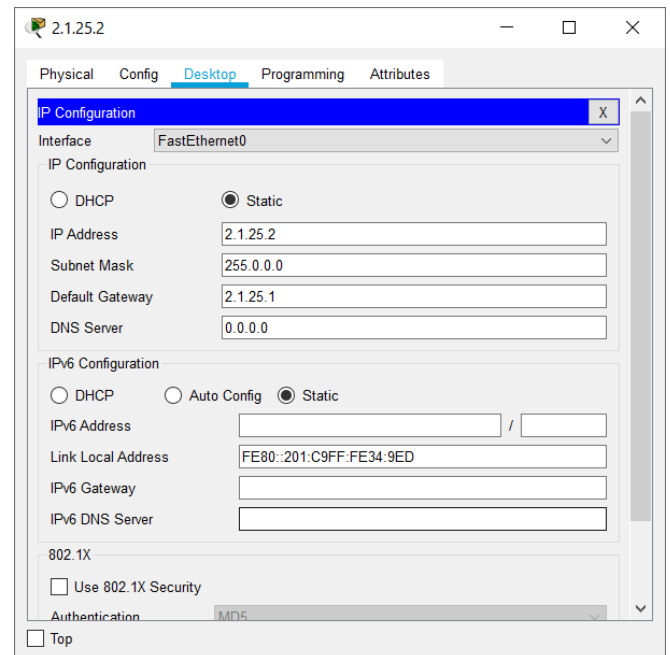
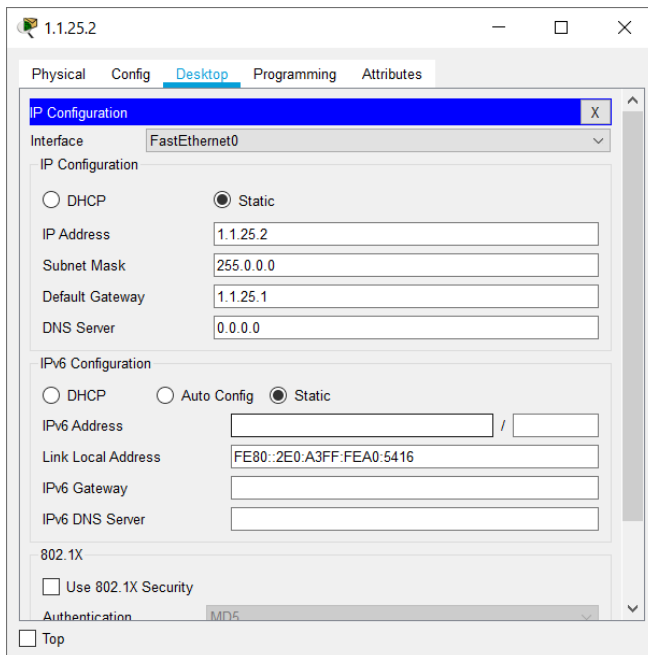
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

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

☐ Top

Assigning IP address to the PC's

1. Click on the PC.
2. Go to Desktop -> IP configuration.
3. Add the Ip address and the gateway.



Connecting Router's

1. Click on the router.
2. Go to Config.
3. Then config the serial ports as required.

Router0

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/0/0

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 1200

IP Configuration

IP Address 192.168.25.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up

Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

☐ Top

Router1

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/0/0

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 2000000

IP Configuration

IP Address 192.168.25.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1,
changed state to up

Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

☐ Top

Router1

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/0/1

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 1200

IP Configuration

IP Address 192.166.25.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/1
Router(config-if)#
```

☐ Top

Router2

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/0/0

Port Status ☒ On

Duplex ☐ Full Duplex

Clock Rate 2000000

IP Configuration

IP Address 192.166.25.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up

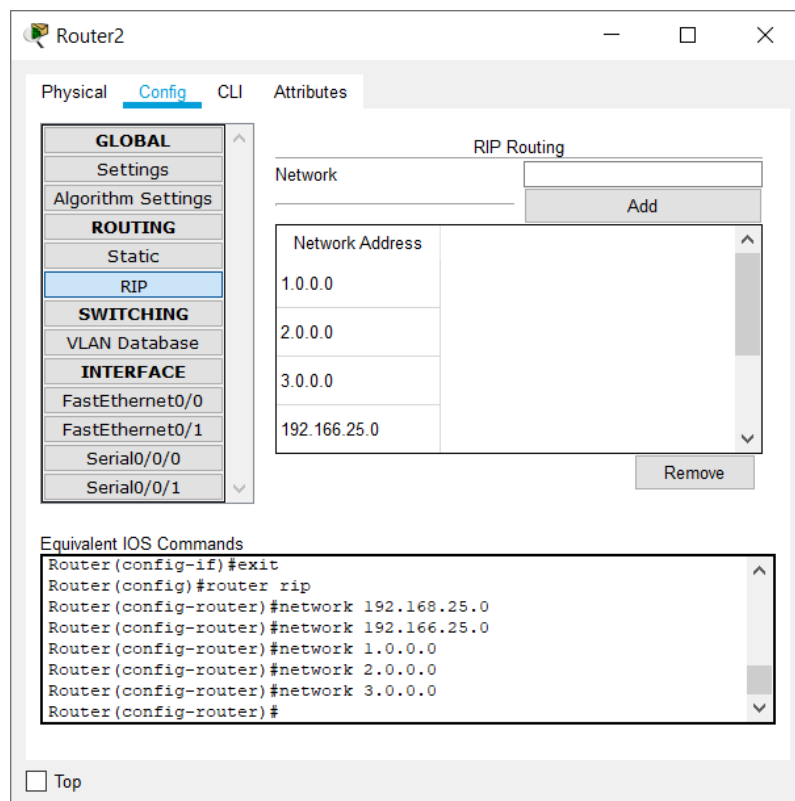
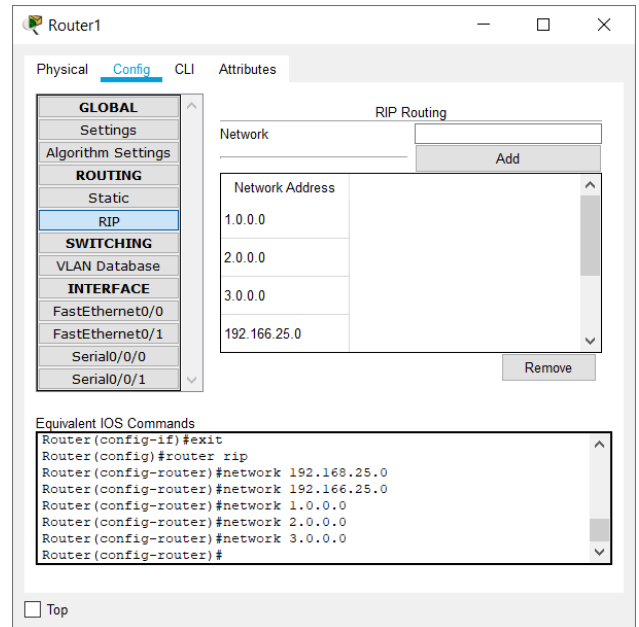
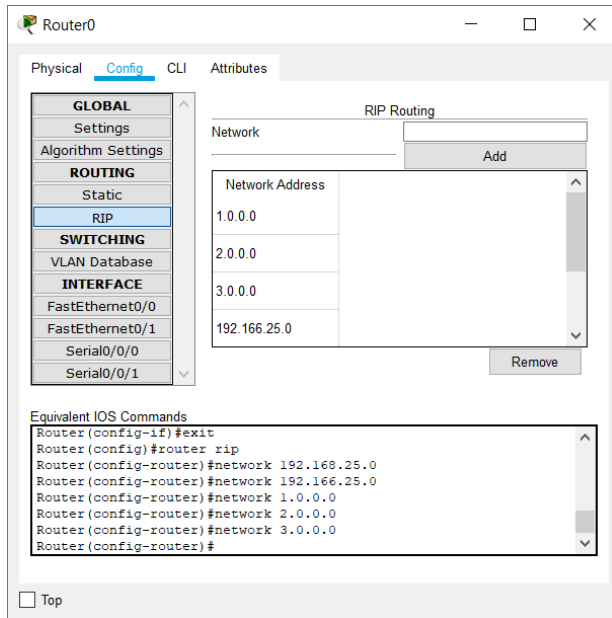
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
```

☐ Top

Configuring RIP

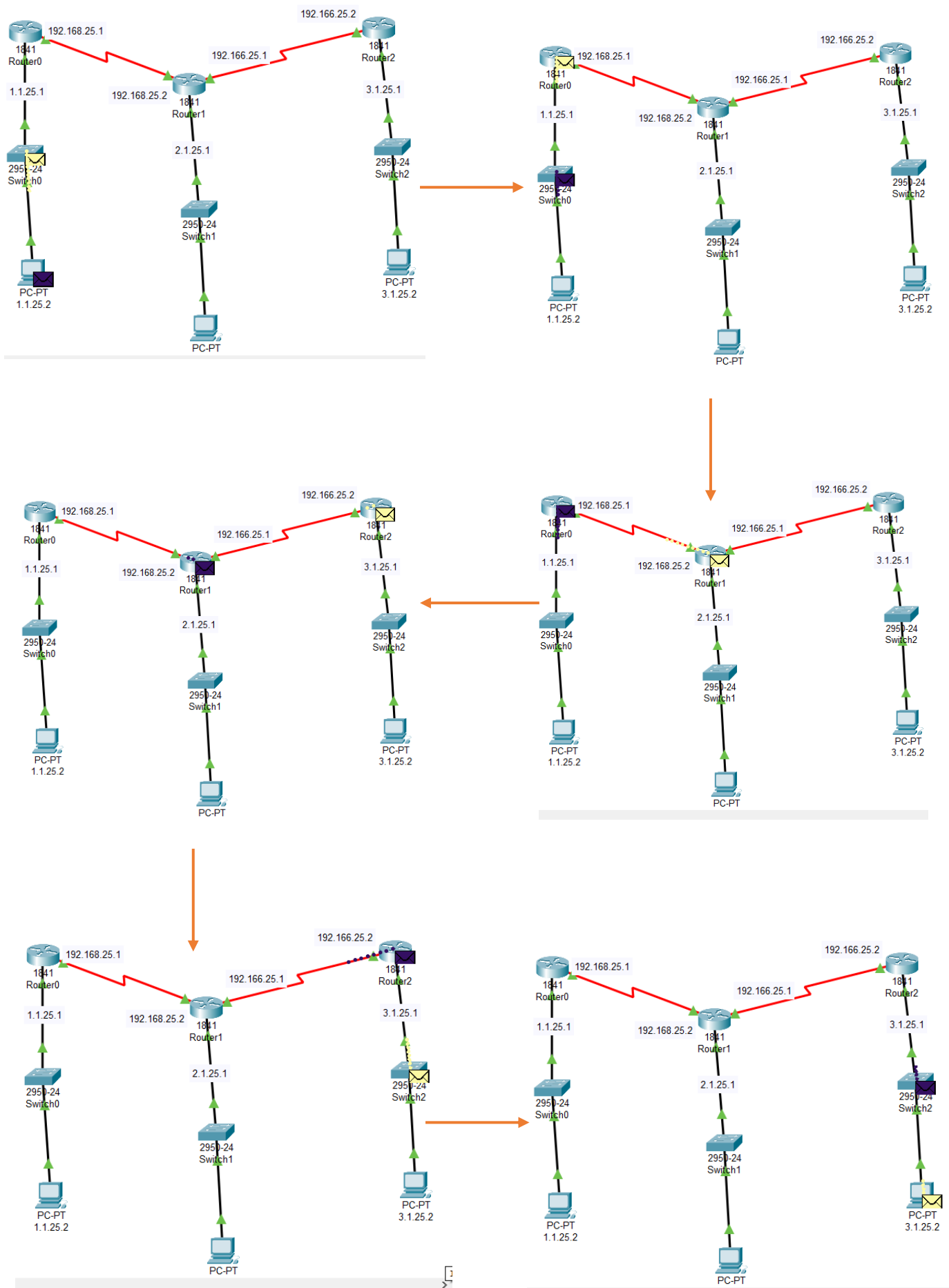
Adding networks to communicate between (for each router)

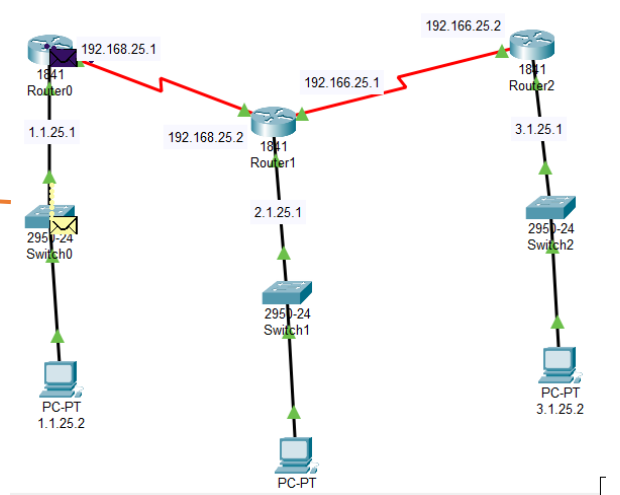
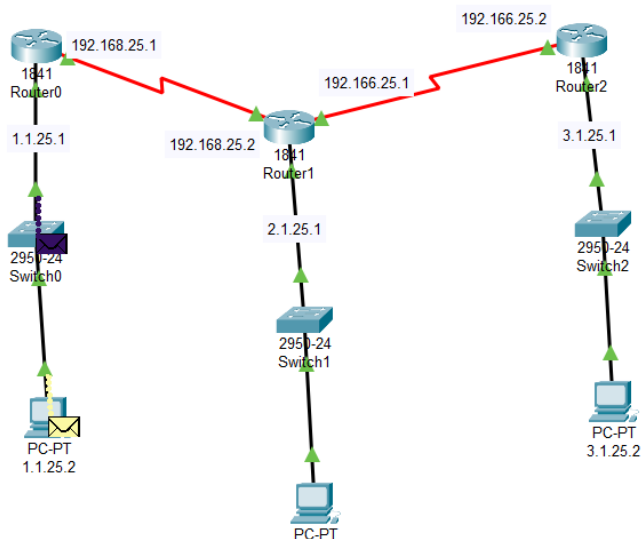
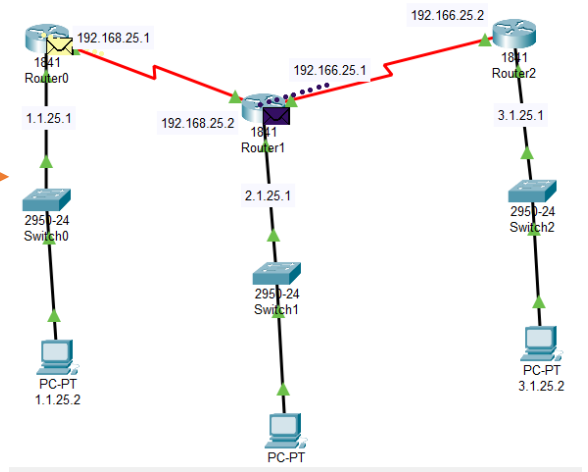
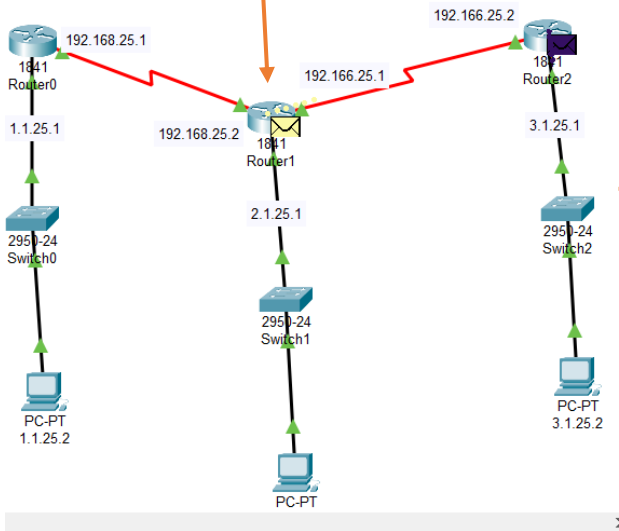
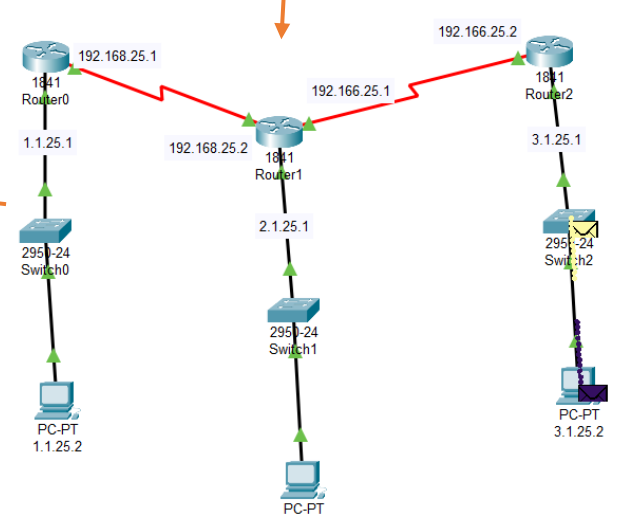
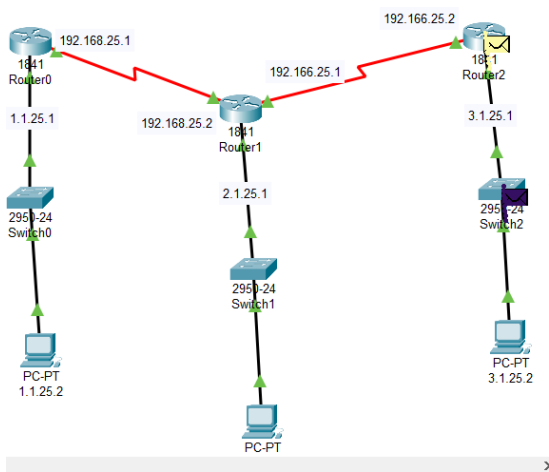
1. Click on the router.
2. Go to Config -> RIP.
3. Add the network Id's for each network (192.168.25.0 , 192.166.25.0 , 1.0.0.0 , 2.0.0.0 , 3.0.0.0).
4. Then click Add.

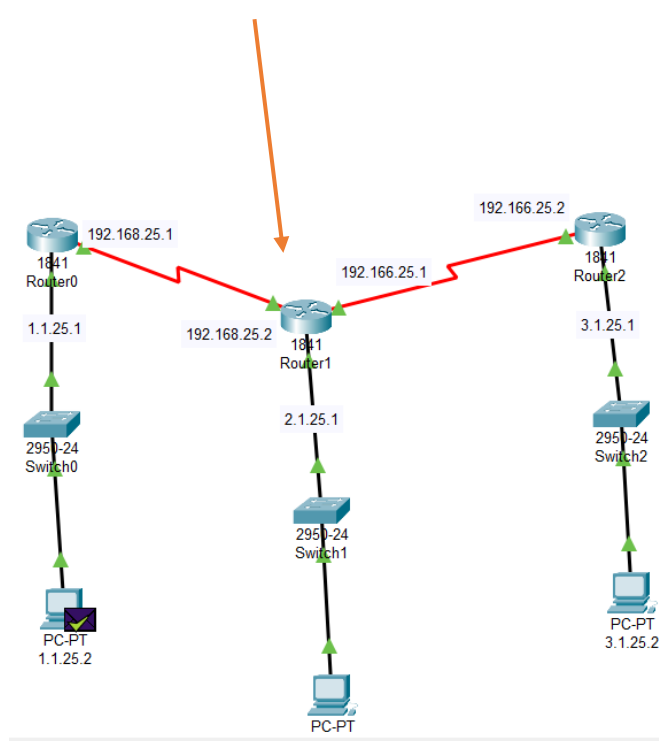


Real Mode Simulation (RIP)

Note : It may take 2 tries for the packet to reach successfully.







Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	1.1.25.2	ICMP
	0.000	--	1.1.25.2	ICMP
	0.001	1.1.25.2	Switch0	ICMP
	0.001	--	1.1.25.2	ICMP
	0.002	1.1.25.2	Switch0	ICMP
	0.002	Switch0	Router0	ICMP
	0.003	Switch0	Router0	ICMP
	0.003	Router0	Router1	ICMP
	0.004	Router0	Router1	ICMP
	0.004	Router1	Router2	ICMP
	0.005	Router1	Router2	ICMP
	0.005	Router2	Switch2	ICMP
	0.006	Router2	Switch2	ICMP
	0.006	Switch2	3.1.25.2	ICMP
	0.007	Switch2	3.1.25.2	ICMP
	0.007	3.1.25.2	Switch2	ICMP
	0.008	3.1.25.2	Switch2	ICMP
	0.008	Switch2	Router2	ICMP
	0.009	Switch2	Router2	ICMP
	0.009	Router2	Router1	ICMP
	0.010	Router2	Router1	ICMP
	0.010	Router1	Router0	ICMP
	0.011	Router1	Router0	ICMP
	0.011	Router0	Switch0	ICMP
	0.012	Router0	Switch0	ICMP
	0.012	Switch0	1.1.25.2	ICMP
	0.013	Switch0	1.1.25.2	ICMP

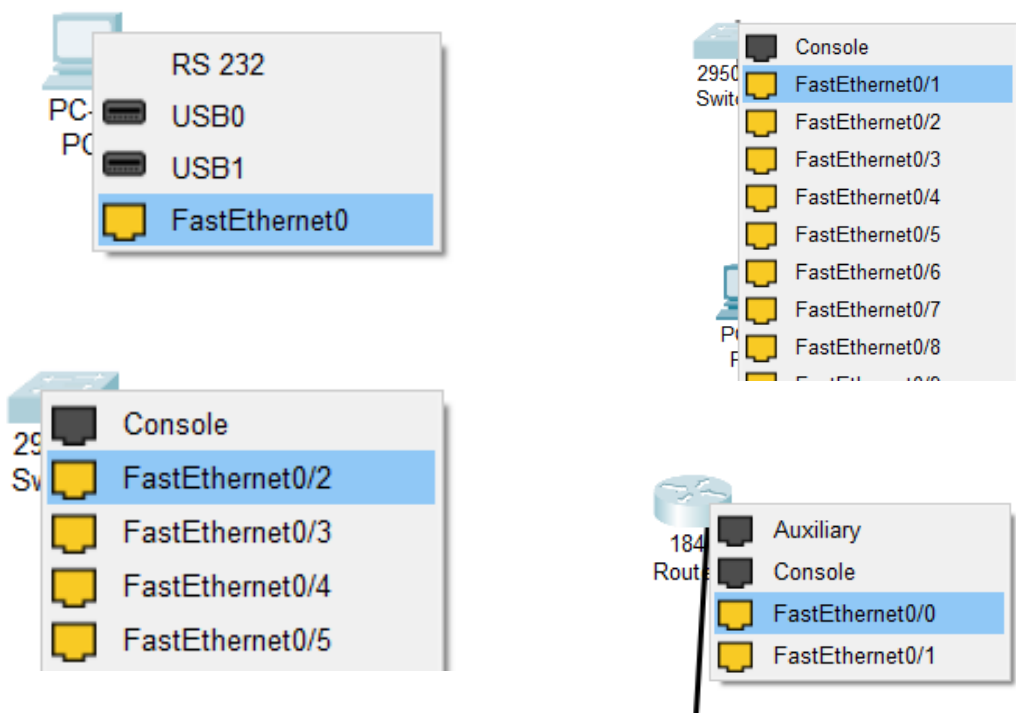
PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	1.1.25.2	3.1.25.2	ICMP		0.000	N	0	(edit)	
	Successful	1.1.25.2	3.1.25.2	ICMP		0.000	N	1	(edit)	

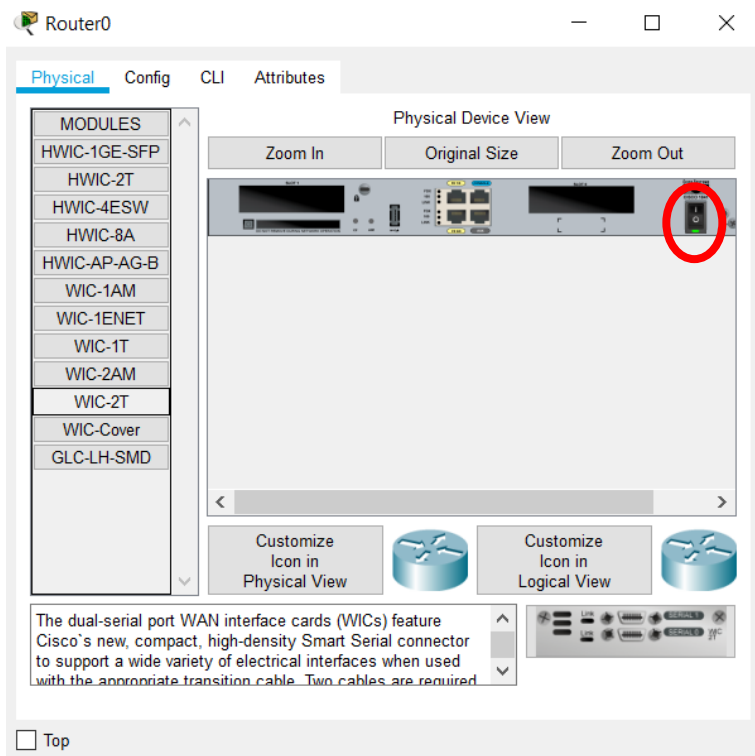
➤ OSPF(Open Shortest Path first) PROTOCOL

Network Topology (OSPF)

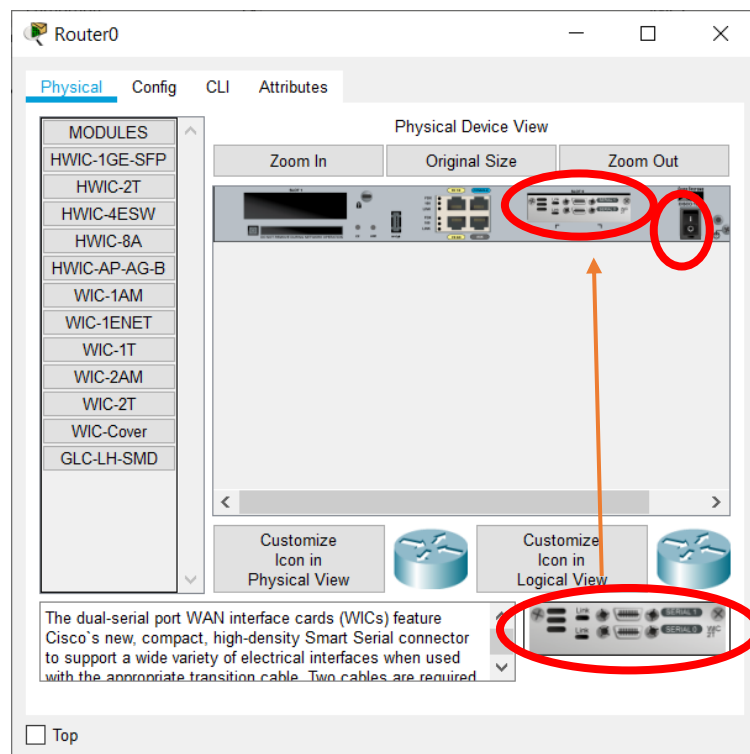
1. Drag and drop PC from End Devices.
2. Drag and drop switch(2950-24) for each network and router(1841) for each network.
3. Connect the PC and switch using Copper straight through cable in fast ethernet ports of both PC and switch.
4. Repeat Step 3 to connect switch to router.



5. As by default not many ports are available on routers, we need to add some extra serial ports to form the network.
6. To add the serial ports click on the router go to PHYSICAL ----> WIC-2T.
7. Turn off the router by toggling(click) the switch.(FOR ALL ROUTERS)

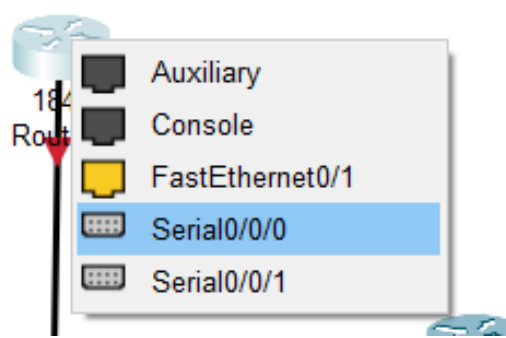


8. Now Drag and drop the ports image from bottom just to the left of switch.

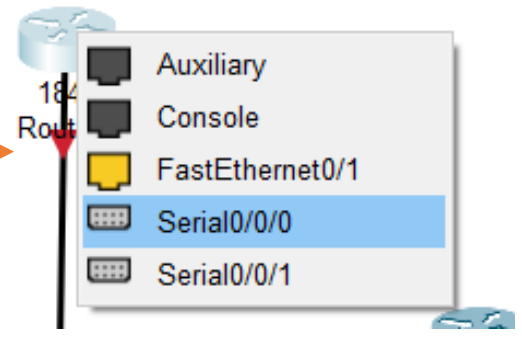


9. Now toggle(click) the switch to turn on the router.

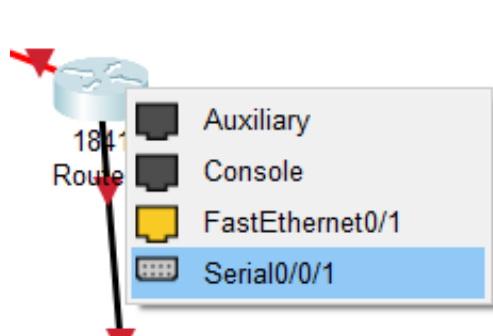
10. Now to connect the routers select the **serial DTE cable** and connect the routers using the serial ports.



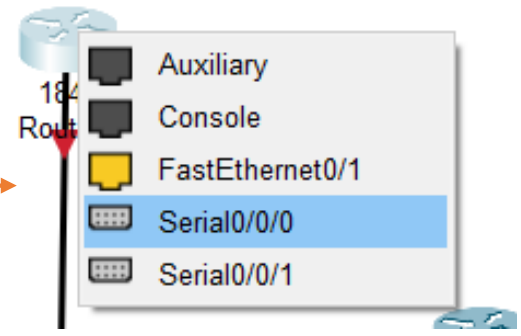
Router 0



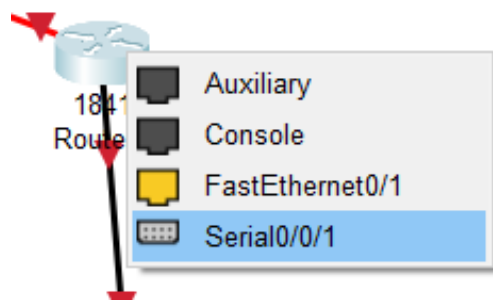
Router 1



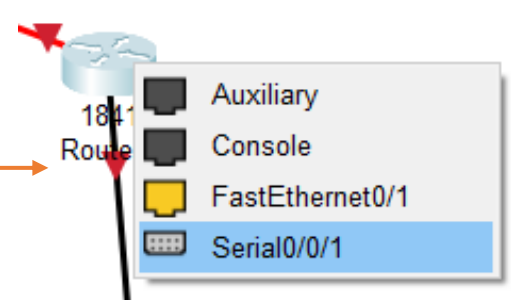
Router 1



Router 2

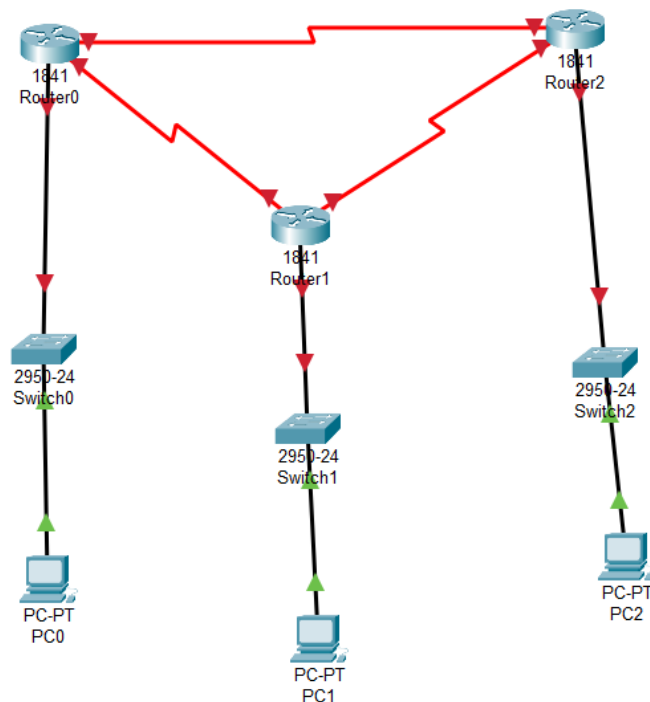


Router 0



Router 1

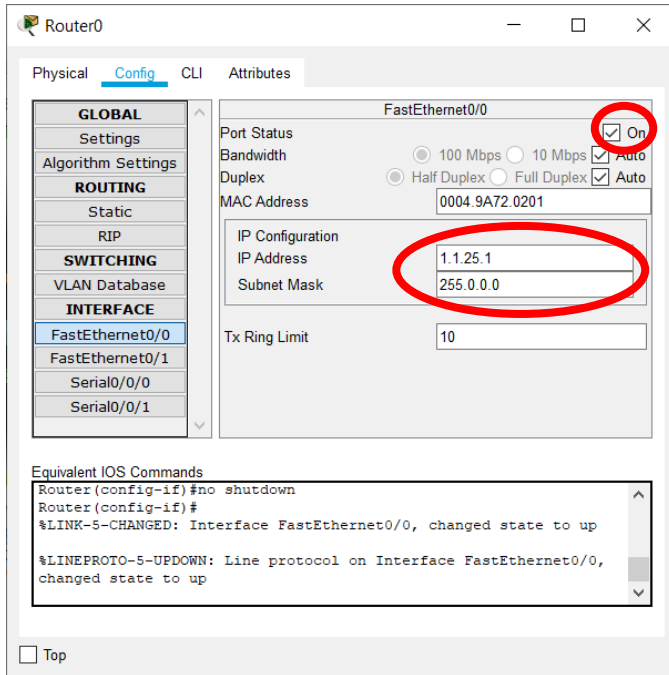
Network



Ip Address Configuration (OSPF)

ADDING gateway in router

1. Click on the router.
2. Go to Config -> Fast ethernet 0/0.
3. Then add the gateway for each network in all the routers.
4. Then turn on the port.

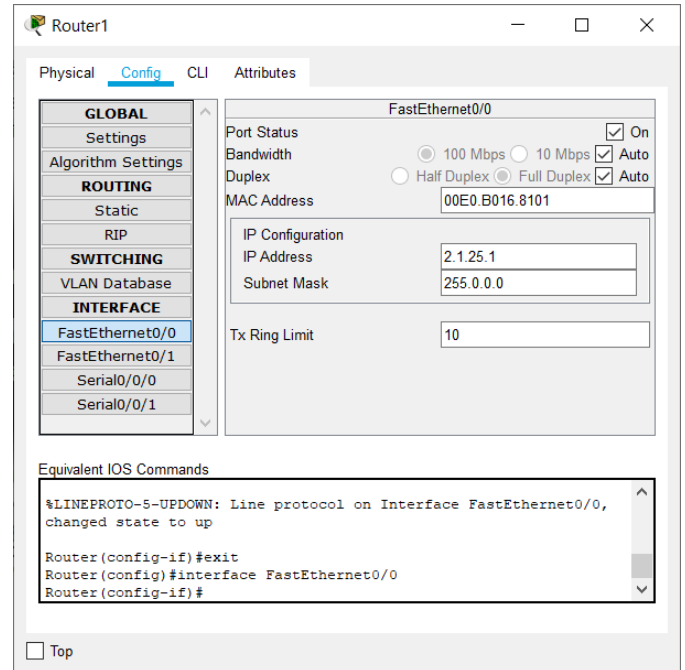


Router0 configuration window showing the configuration for FastEthernet0/0. The interface is selected in the left sidebar. The configuration fields are as follows:

Field	Value
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	100 Mbps
Duplex	Full Duplex
MAC Address	0004.9A72.0201
IP Address	1.1.25.1
Subnet Mask	255.0.0.0
Tx Ring Limit	10

Equivalent IOS Commands:

```
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
```

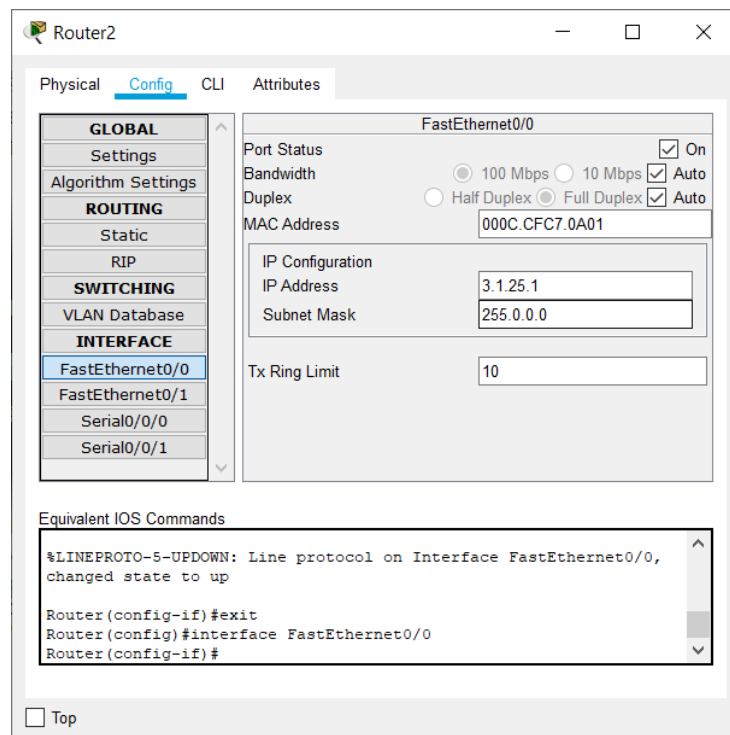


Router1 configuration window showing the configuration for FastEthernet0/0. The interface is selected in the left sidebar. The configuration fields are as follows:

Field	Value
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	100 Mbps
Duplex	Full Duplex
MAC Address	00E0.B016.8101
IP Address	2.1.25.1
Subnet Mask	255.0.0.0
Tx Ring Limit	10

Equivalent IOS Commands:

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```



Router2 configuration window showing the configuration for FastEthernet0/0. The interface is selected in the left sidebar. The configuration fields are as follows:

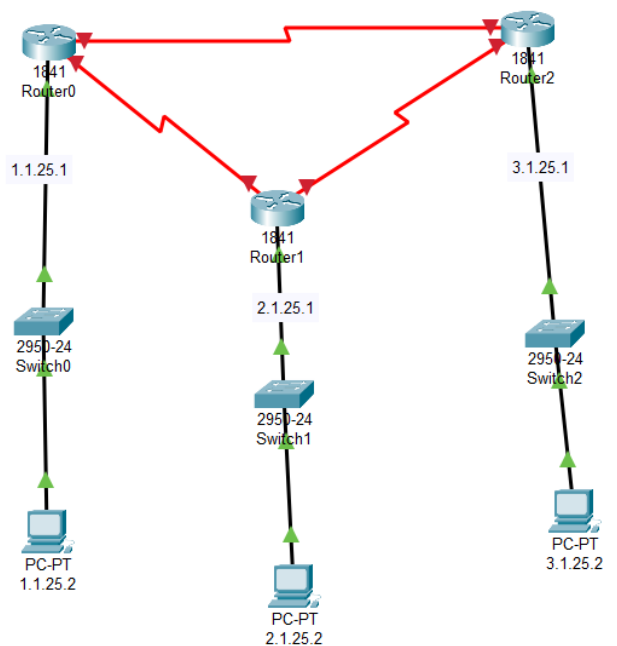
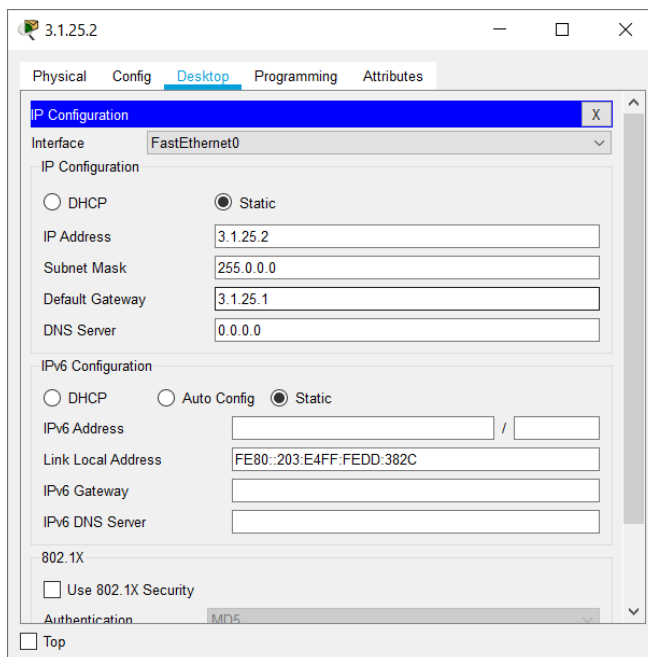
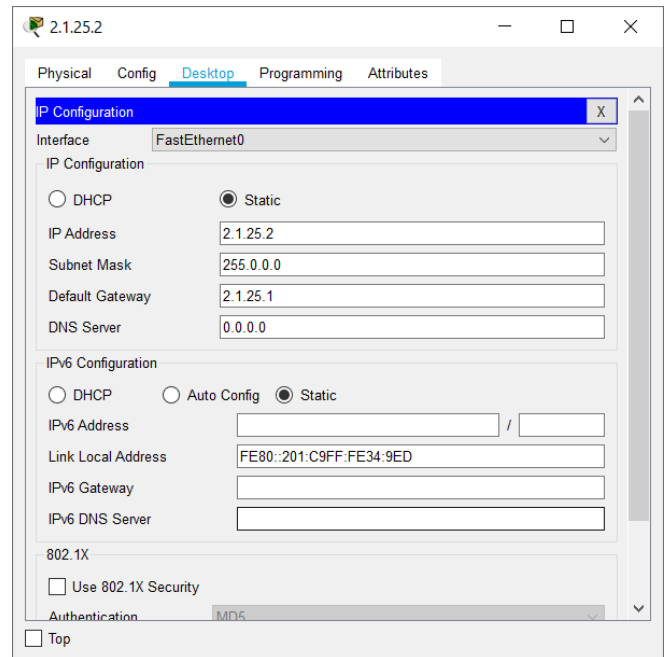
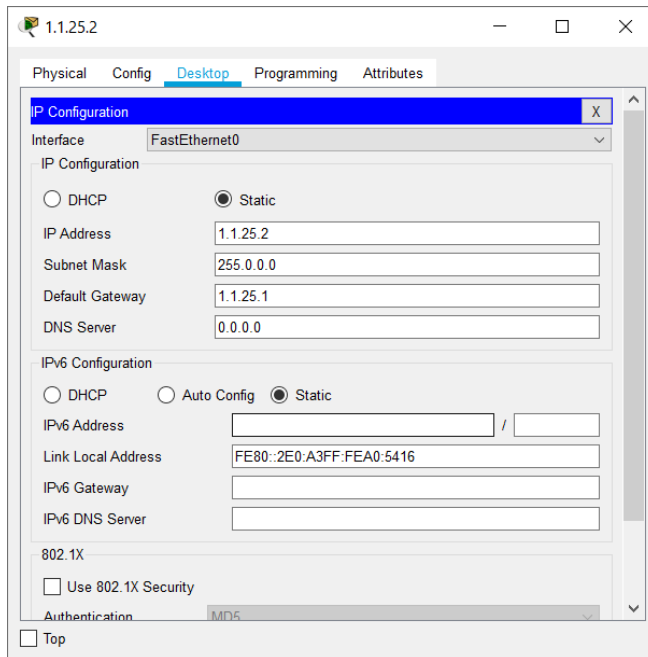
Field	Value
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	100 Mbps
Duplex	Full Duplex
MAC Address	000C.CFC7.0A01
IP Address	3.1.25.1
Subnet Mask	255.0.0.0
Tx Ring Limit	10

Equivalent IOS Commands:

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

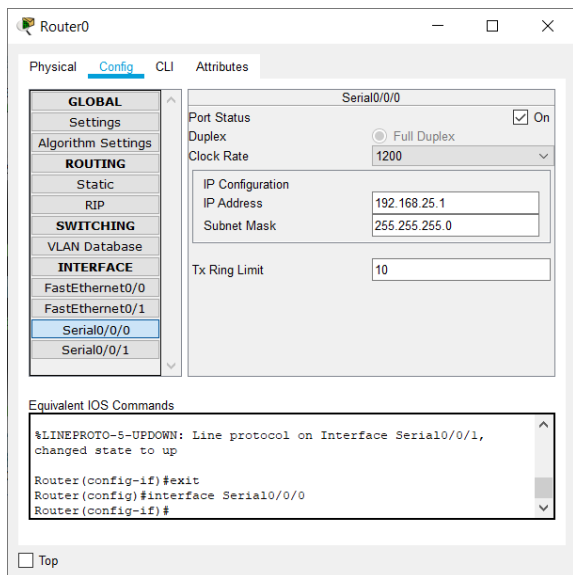
Assigning IP address to the PC's

1. Click on the PC.
2. Go to Desktop -> IP configuration.
3. Add the Ip address and the gateway.



Connecting Router's

1. Click on the router.
2. Go to Config.
3. Then config the serial ports as required.



Router0 Config window showing Serial0/0/0 configuration. The interface is set to Full Duplex, 1200 kbps, and has an IP address of 192.168.25.1 with a subnet mask of 255.255.255.0. The Tx Ring Limit is 10. The Equivalent IOS Commands section shows the configuration commands for the interface.

Physical Config CLI Attributes

Serial0/0/0

Port Status: ☒ On

Duplex: ☒ Full Duplex

Clock Rate: 1200

IP Configuration:

IP Address: 192.168.25.1

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands:

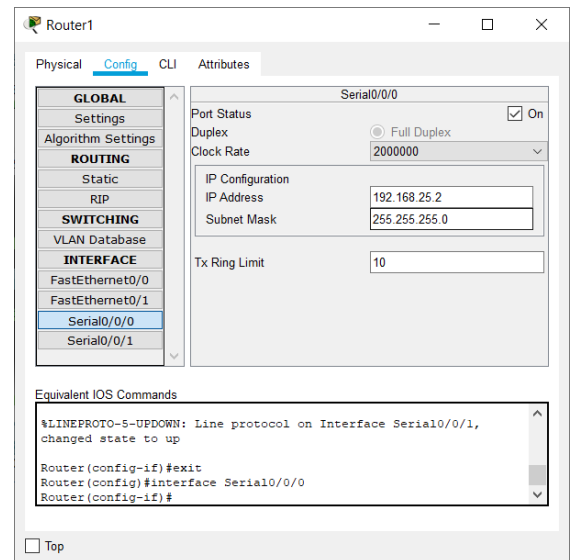
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up
```

Router(config-if)#exit

Router(config)#interface Serial0/0/0

Router(config-if)#

☐ Top



Router1 Config window showing Serial0/0/0 configuration. The interface is set to Full Duplex, 2000000 kbps, and has an IP address of 192.168.25.2 with a subnet mask of 255.255.255.0. The Tx Ring Limit is 10. The Equivalent IOS Commands section shows the configuration commands for the interface.

Physical Config CLI Attributes

Serial0/0/0

Port Status: ☒ On

Duplex: ☒ Full Duplex

Clock Rate: 2000000

IP Configuration:

IP Address: 192.168.25.2

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands:

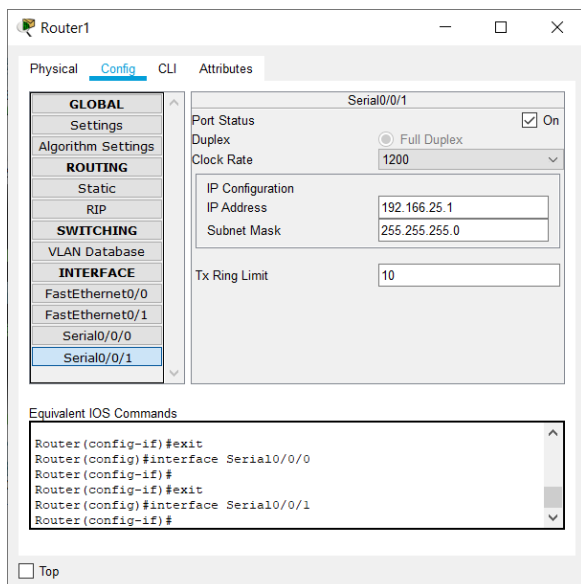
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up
```

Router(config-if)#exit

Router(config)#interface Serial0/0/0

Router(config-if)#

☐ Top



Router1 Config window showing Serial0/0/1 configuration. The interface is set to Full Duplex, 1200 kbps, and has an IP address of 192.166.25.1 with a subnet mask of 255.255.255.0. The Tx Ring Limit is 10. The Equivalent IOS Commands section shows the configuration commands for the interface.

Physical Config CLI Attributes

Serial0/0/1

Port Status: ☒ On

Duplex: ☒ Full Duplex

Clock Rate: 1200

IP Configuration:

IP Address: 192.166.25.1

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands:

```
Router(config-if)#exit
```

Router(config)#interface Serial0/0/0

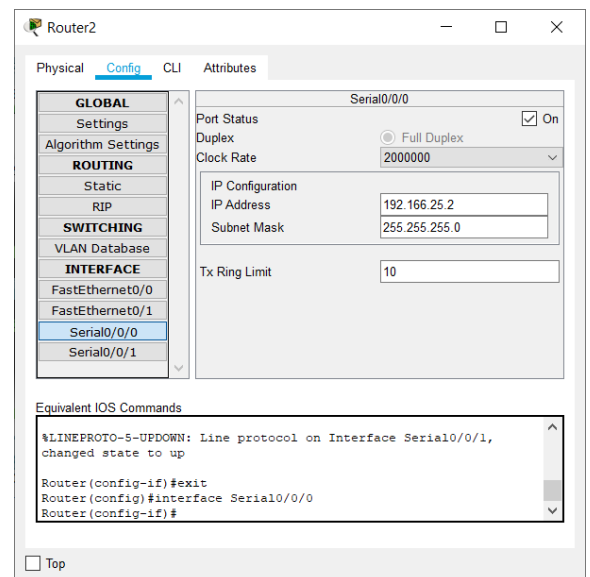
Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial0/0/1

Router(config-if)#

☐ Top



Router2 Config window showing Serial0/0/0 configuration. The interface is set to Full Duplex, 2000000 kbps, and has an IP address of 192.166.25.2 with a subnet mask of 255.255.255.0. The Tx Ring Limit is 10. The Equivalent IOS Commands section shows the configuration commands for the interface.

Physical Config CLI Attributes

Serial0/0/0

Port Status: ☒ On

Duplex: ☒ Full Duplex

Clock Rate: 2000000

IP Configuration:

IP Address: 192.166.25.2

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands:

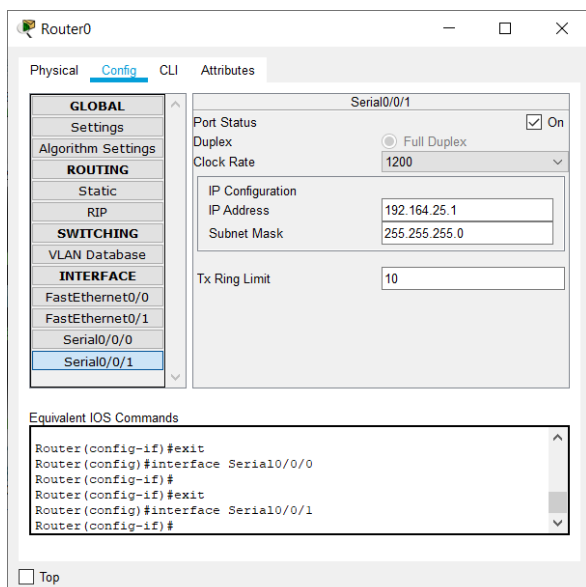
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up
```

Router(config-if)#exit

Router(config)#interface Serial0/0/0

Router(config-if)#

☐ Top



Router0 Config window showing Serial0/0/1 configuration. The interface is set to Full Duplex, 1200 kbps, and has an IP address of 192.164.25.1 with a subnet mask of 255.255.255.0. The Tx Ring Limit is 10. The Equivalent IOS Commands section shows the configuration commands for the interface.

Physical Config CLI Attributes

Serial0/0/1

Port Status: ☒ On

Duplex: ☒ Full Duplex

Clock Rate: 1200

IP Configuration:

IP Address: 192.164.25.1

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands:

```
Router(config-if)#exit
```

Router(config)#interface Serial0/0/0

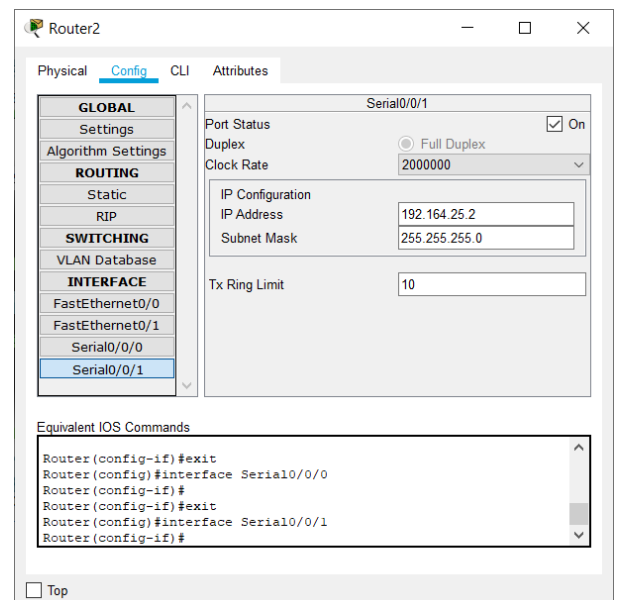
Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial0/0/1

Router(config-if)#

☐ Top



Router2 Config window showing Serial0/0/1 configuration. The interface is set to Full Duplex, 2000000 kbps, and has an IP address of 192.164.25.2 with a subnet mask of 255.255.255.0. The Tx Ring Limit is 10. The Equivalent IOS Commands section shows the configuration commands for the interface.

Physical Config CLI Attributes

Serial0/0/1

Port Status: ☒ On

Duplex: ☒ Full Duplex

Clock Rate: 2000000

IP Configuration:

IP Address: 192.164.25.2

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Equivalent IOS Commands:

```
Router(config-if)#exit
```

Router(config)#interface Serial0/0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial0/0/1

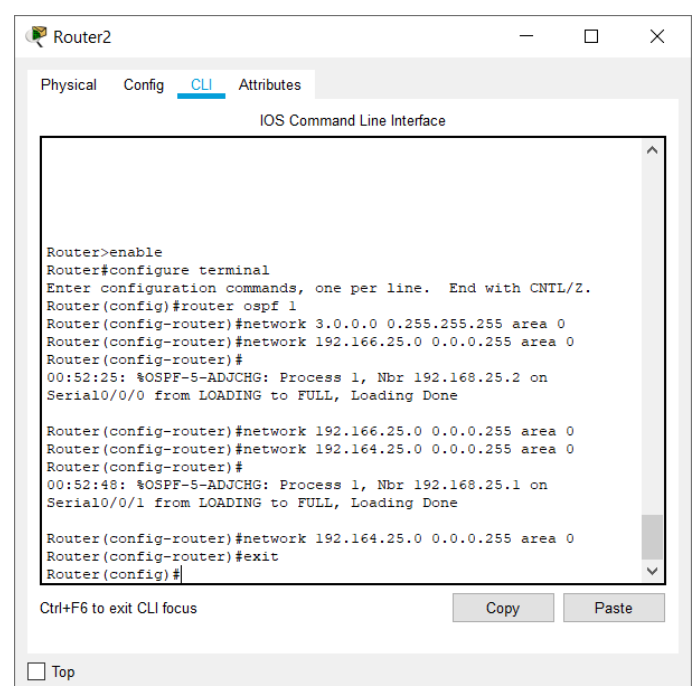
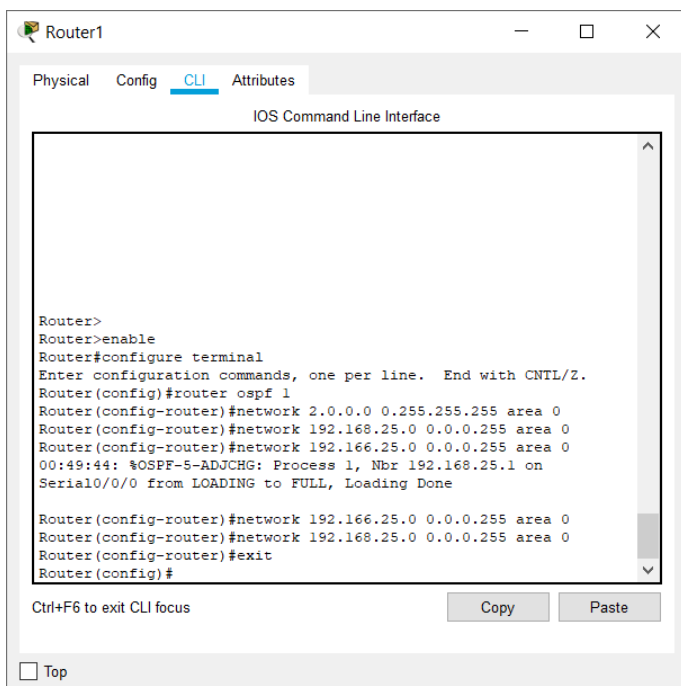
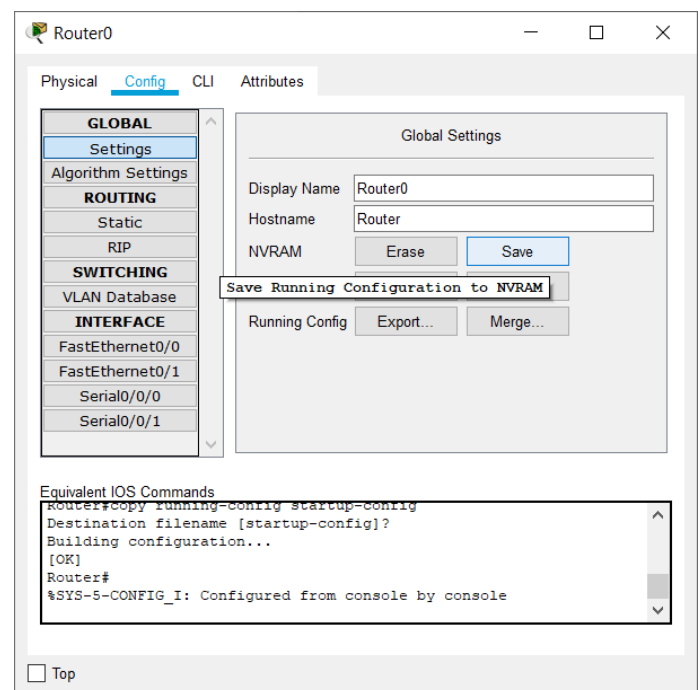
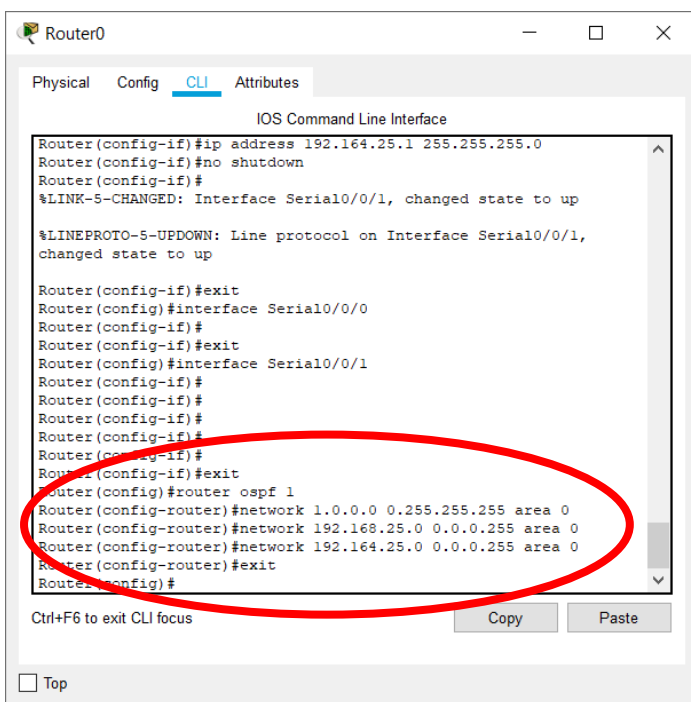
Router(config-if)#

☐ Top

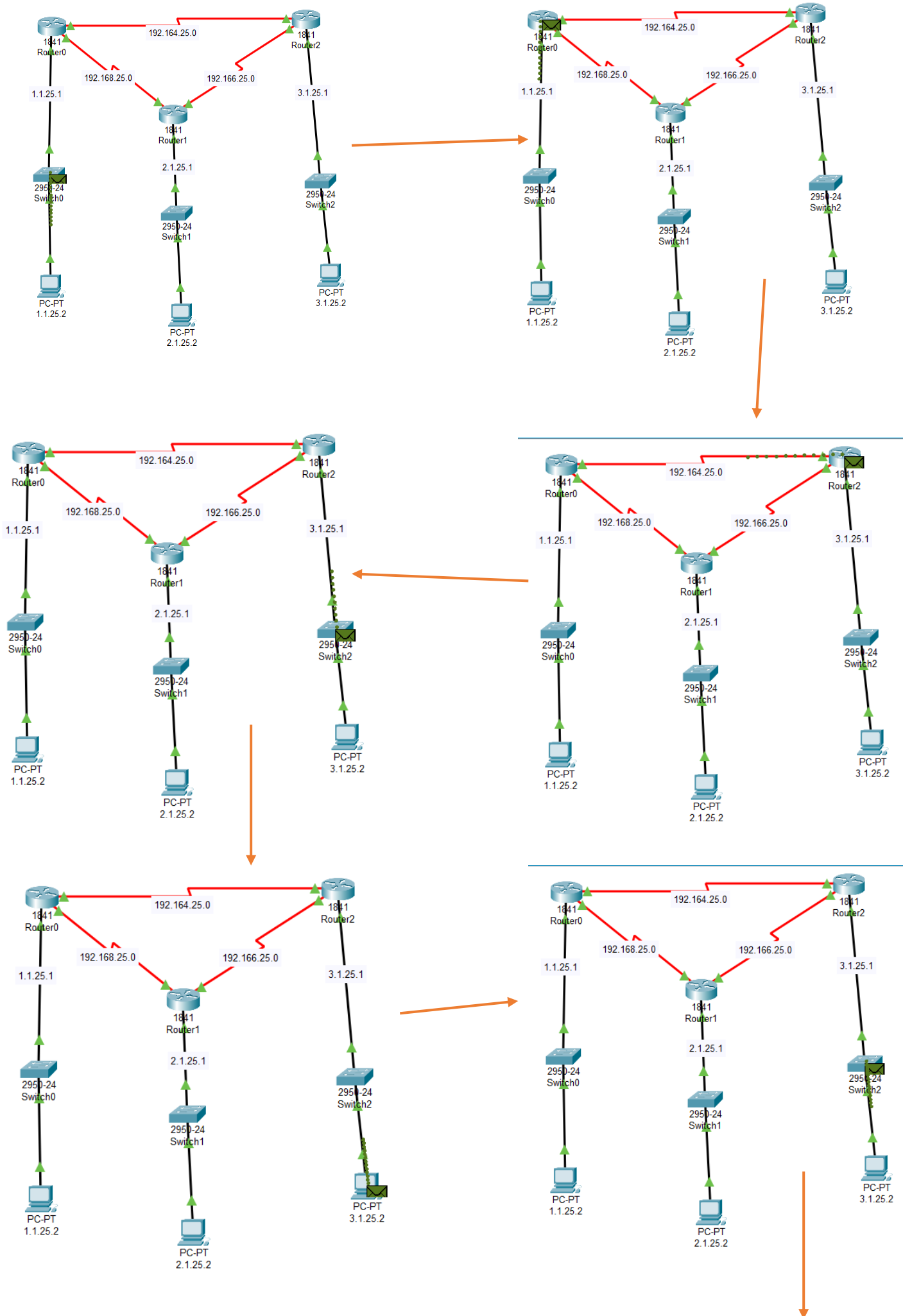
Configuring OSPF

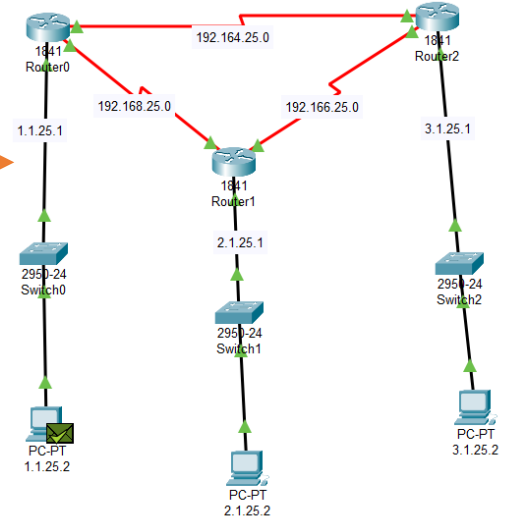
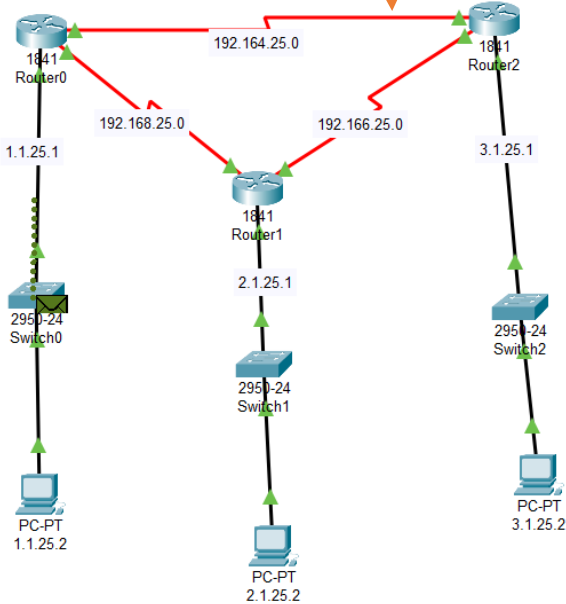
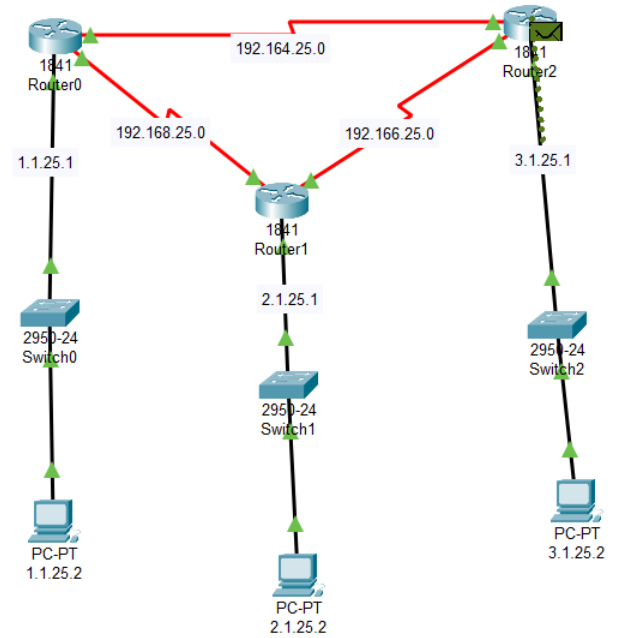
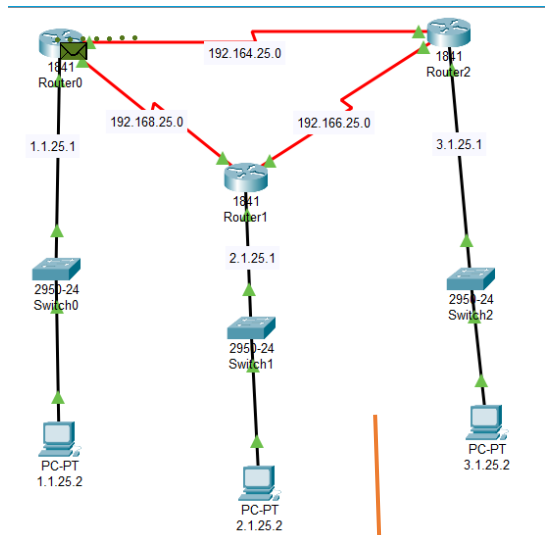
Adding networks to communicate between (for each router)

1. Click on the router.
2. Go to CLI.
3. Type "exit" and hit ENTER to enter the config mode.
4. Then type "router ospf 1" to configure OSPF protocol for this router
5. Then type "network <the immediate network id> <compliment of its subnet mask> area 0".
6. Repeat step 5 to add all the neighbour networks.
7. Then type "exit".
8. Go to CONFIG -> settings and select SAVE.
9. Repeat the above steps for all routers.



Real Mode Simulation (OSPF)





Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	1.1.25.2	ICMP
	0.001	1.1.25.2	Switch0	ICMP
	0.002	Switch0	Router0	ICMP
	0.003	Router0	Router2	ICMP
	0.004	Router2	Switch2	ICMP
	0.005	Switch2	3.1.25.2	ICMP
	0.006	3.1.25.2	Switch2	ICMP
	0.007	Switch2	Router2	ICMP
	0.008	Router2	Router0	ICMP
	0.009	Router0	Switch0	ICMP
	0.010	Switch0	1.1.25.2	ICMP

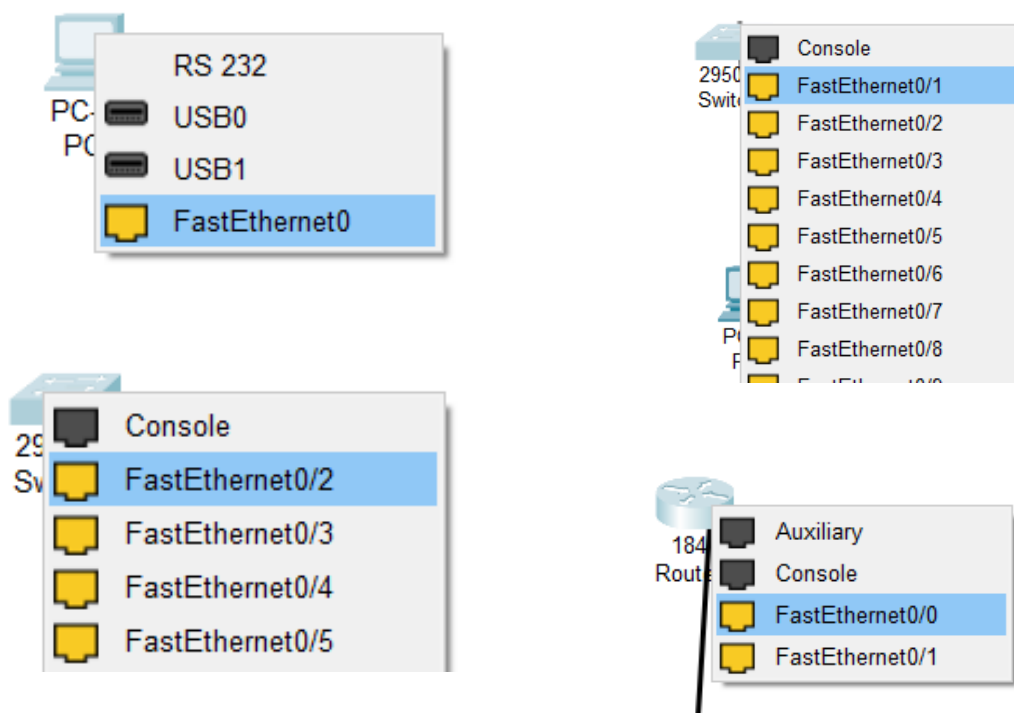
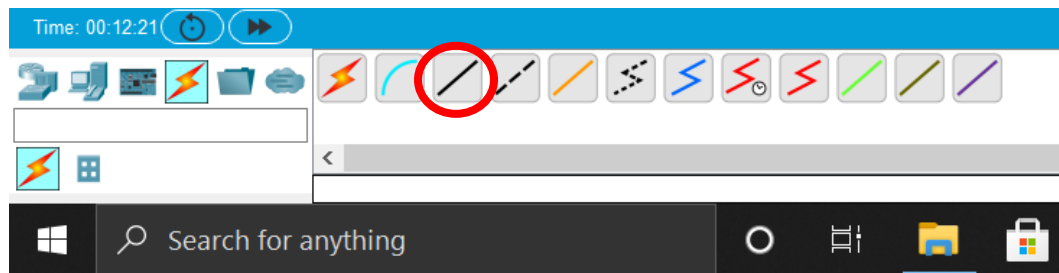
PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Successful	1.1.25.2	3.1.25.2	ICMP		0.000	N	0

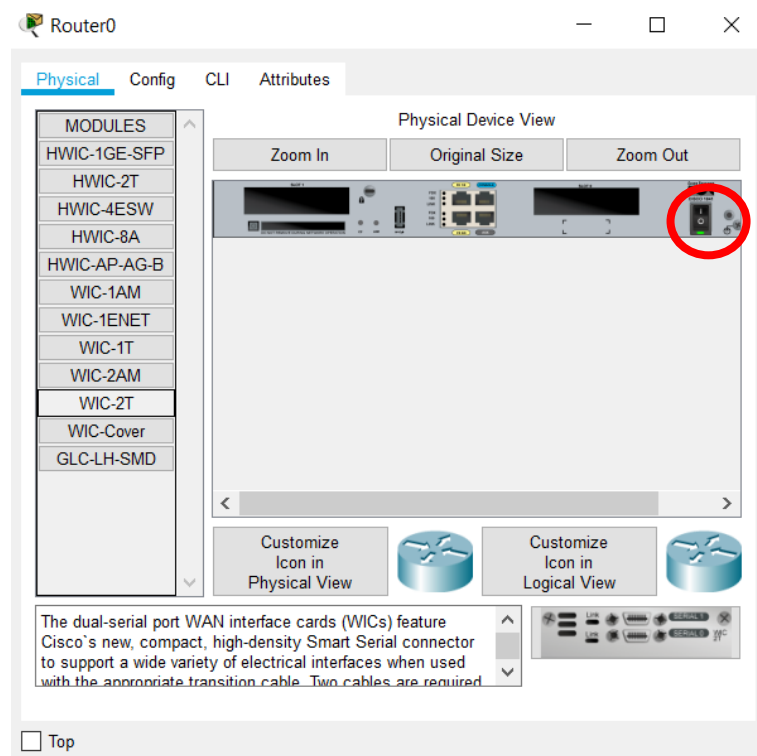
➤ BGP(Broder Gateway Protocol) PROTOCOL

Network Topology (BGP)

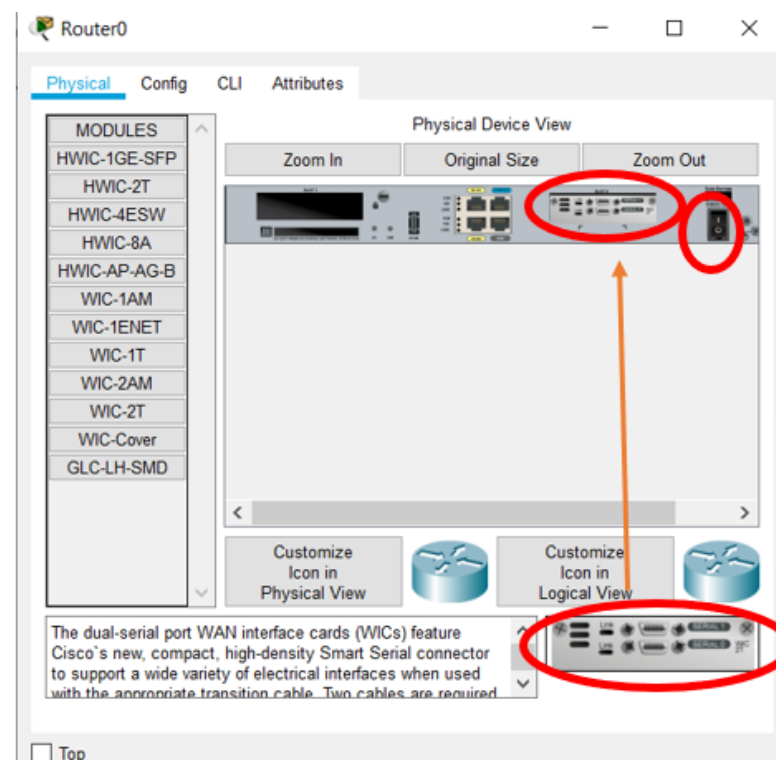
1. Drag and drop PC from End Devices.
2. Drag and drop switch(2950-24) for each network and router(1841) for each network.
3. Connect the PC and switch using Copper straight through cable in fast ethernet ports of both PC and switch.
4. Repeat Step 3 to connect switch to router.



5. As by default not many ports are available on routers, we need to add some extra serial ports to form the network.
6. To add the serial ports click on the router go to PHYSICAL ----> WIC-2T.
7. Turn off the router by toggling(click) the switch.(FOR ALL ROUTERS)

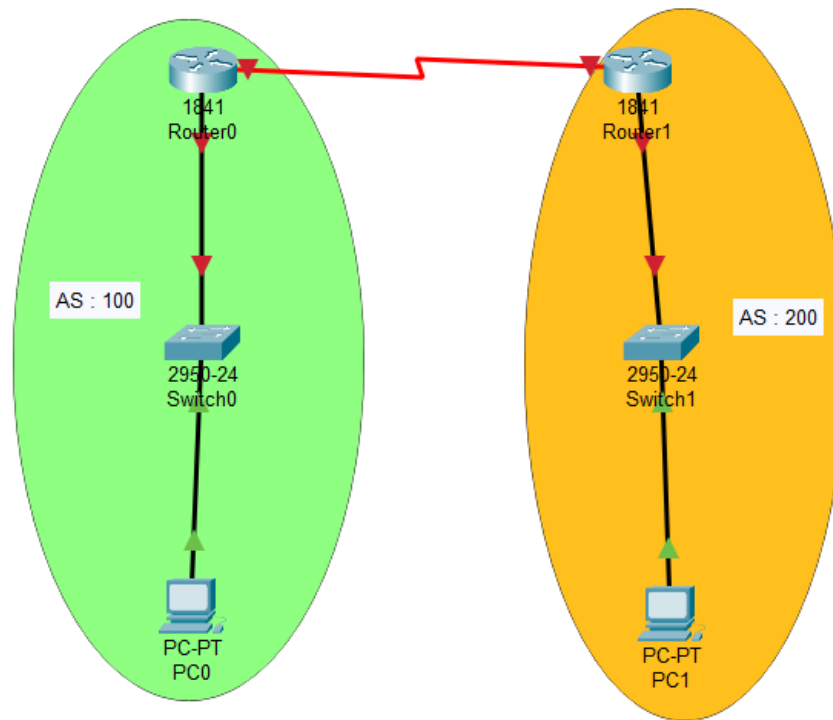
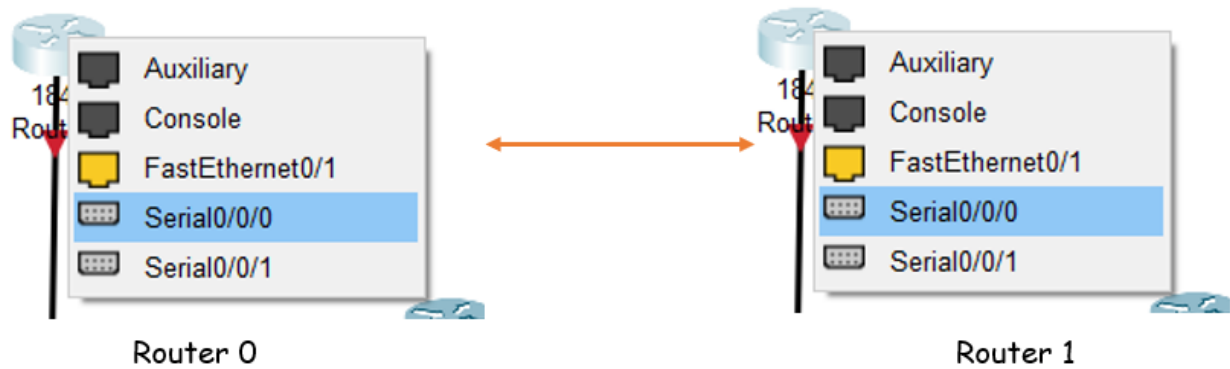


8. Now Drag and drop the ports image from bottom just to the left of switch.



9. Now toggle(click) the switch to turn on the router.

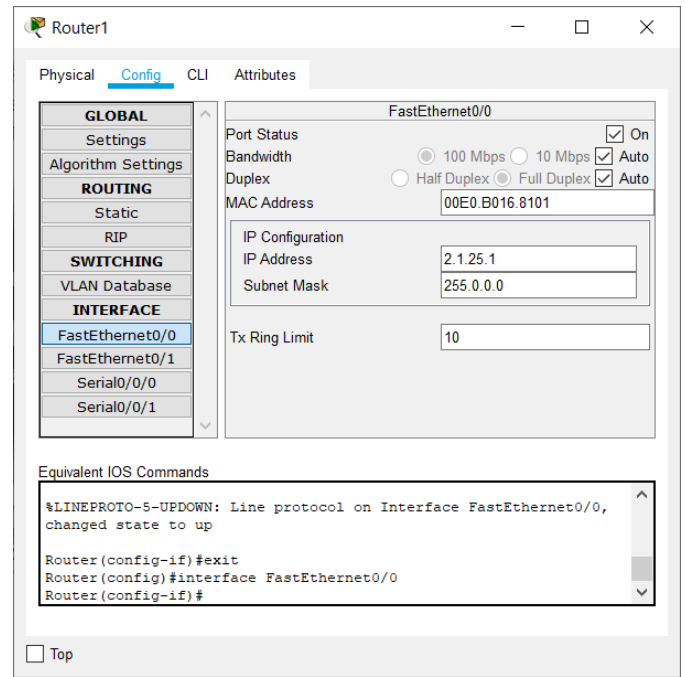
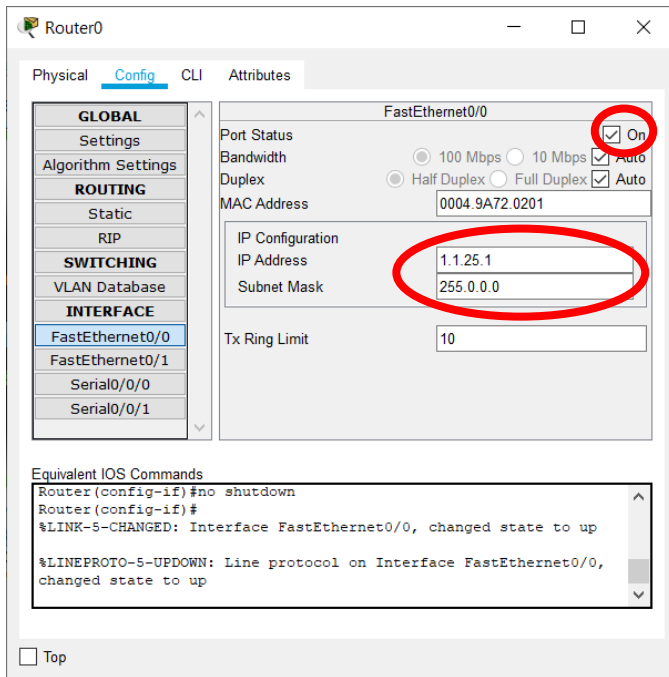
10. Now to connect the routers select the **serial DTE cable** and connect the routers using the serial ports.



Ip Address Configuration (BGP)

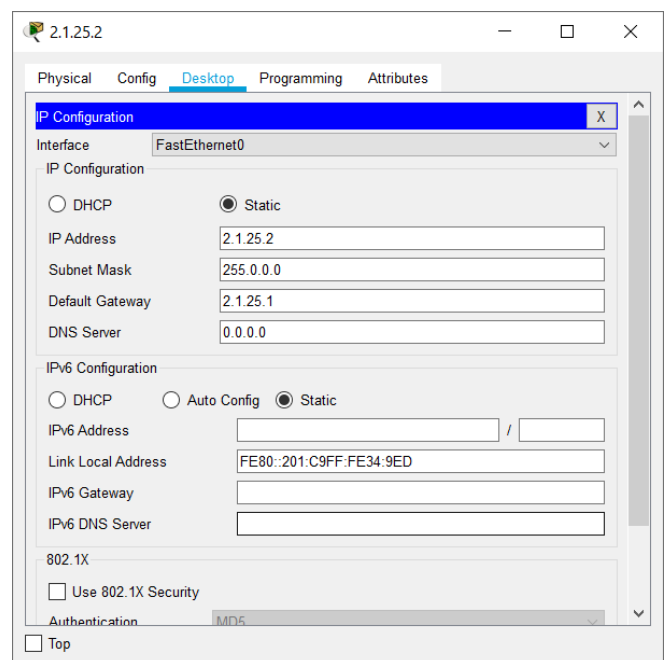
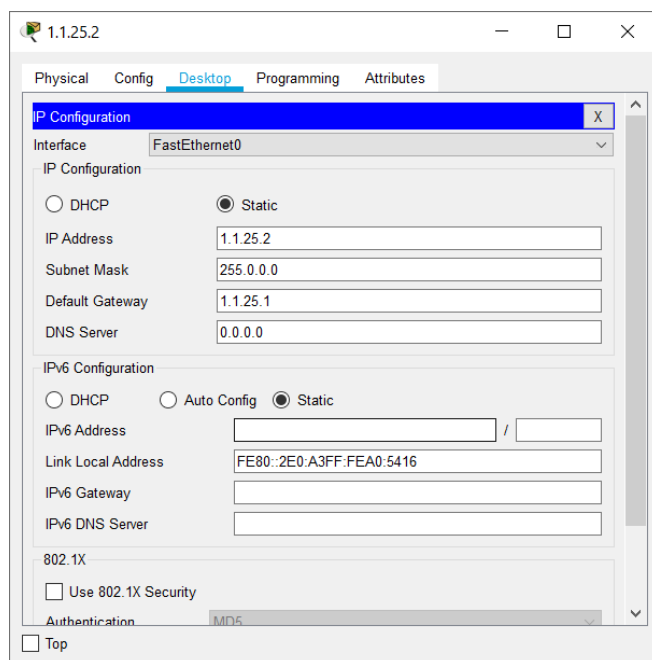
ADDING gateway in router

1. Click on the router.
2. Go to Config -> Fast ethernet 0/0.
3. Then add the gateway for each network in all the routers.
4. Then turn on the port.



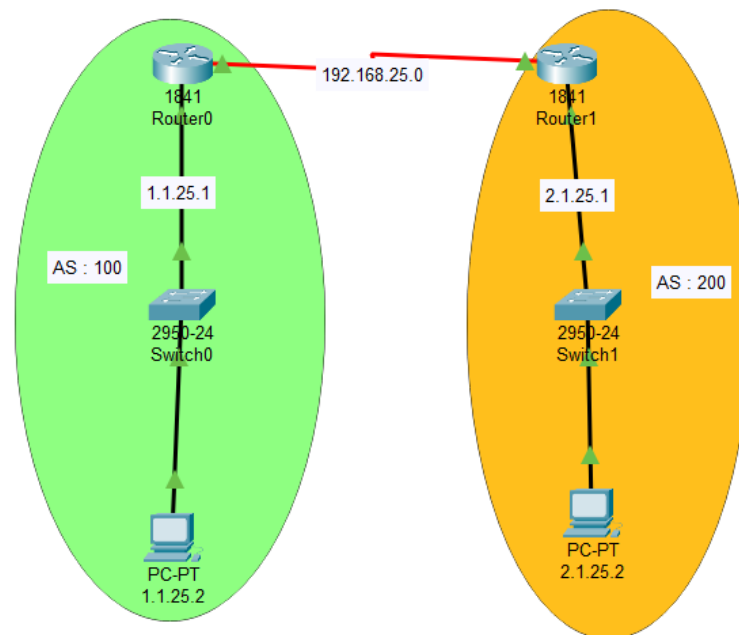
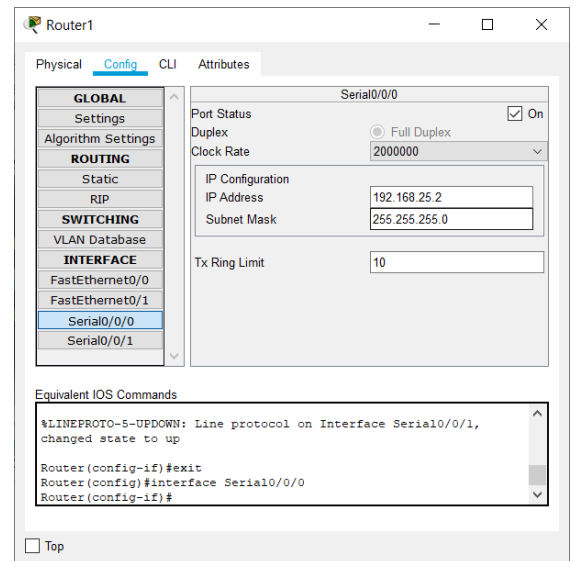
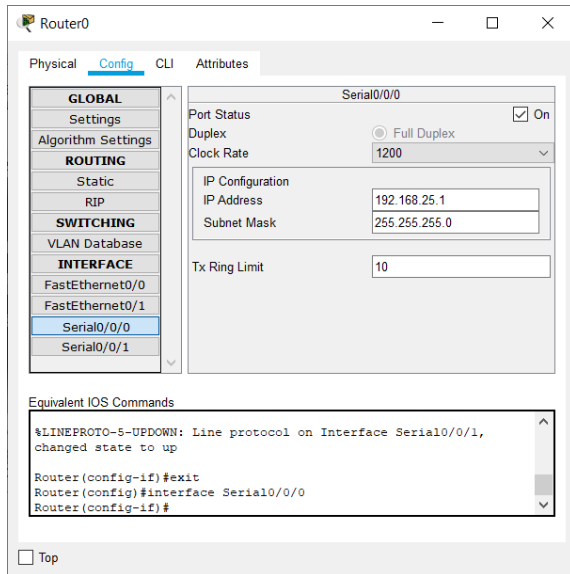
Assigning IP address to the PC's

1. Click on the PC.
2. Go to Desktop -> IP configuration.
3. Add the Ip address and the gateway.



Connecting Router's

1. Click on the router.
2. Go to Config.
3. Then config the serial ports as required.



Configuring BGP

For Router0 :

1. Click on the router.
2. Go to CLI.
3. Type "exit" and hit ENTER to enter the config mode.
4. Then type "router bgp 100" .
5. Then type "network 192.168.25.0".
6. Then type "network 1.0.0.0".
7. Then type "neighbor 192.168.25.2 remote-as 200".
8. Then type "neighbor 2.1.25.2 remote-as 200".
9. Then type "exit".
10. Go to CONFIG -> settings and select SAVE.

For Router1 :

1. Click on the router.
2. Go to CLI.
3. Type "exit" and hit ENTER to enter the config mode.
4. Then type "router bgp 200" .
5. Then type "network 192.168.25.0".
6. Then type "network 2.0.0.0".
7. Then type "neighbor 192.168.25.1 remote-as 100".
8. Then type "neighbor 1.1.25.2 remote-as 100".
9. Then type "exit".
10. Go to CONFIG -> settings and select SAVE.

```
Router0
Physical Config CLI Attributes
IOS Command Line Interface

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#ip address
% Incomplete command.
Router(config-if)#ip address 192.168.25.1 255.255.255.0
Router(config-if)#ip address 192.168.25.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0,
changed state to up
Router(config-if)#exit
Router(config)#router bgp 100
Router(config-router)#network 192.168.25.0
Router(config-router)#network 1.0.0.0
Router(config-router)#neighbor 192.168.25.2 remote-as 200
Router(config-router)#neighbor 2.1.25.2 remote-as 200
Router(config-router)#exit
Router(config)#

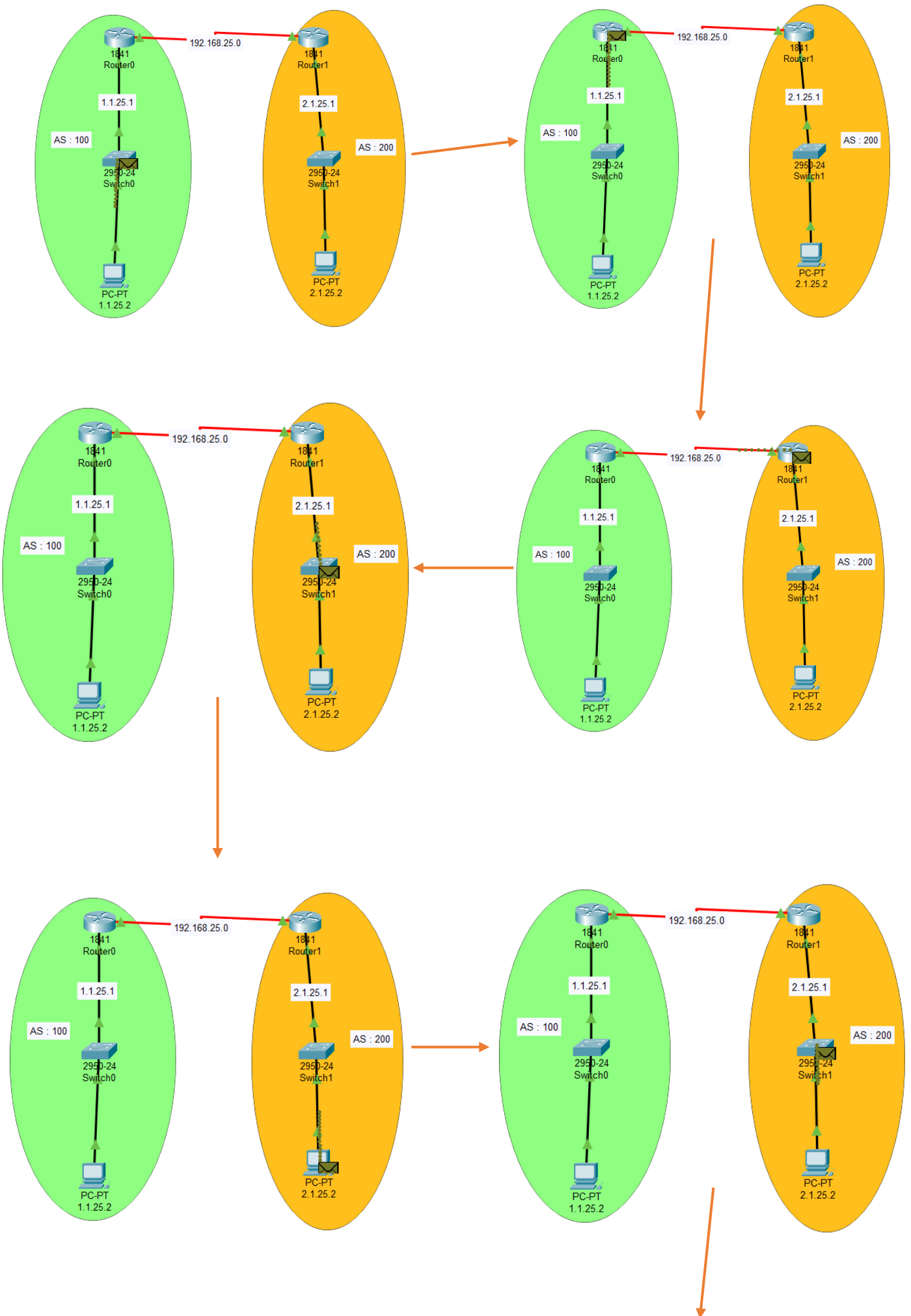
Ctrl+F6 to exit CLI focus
Copy Paste
```

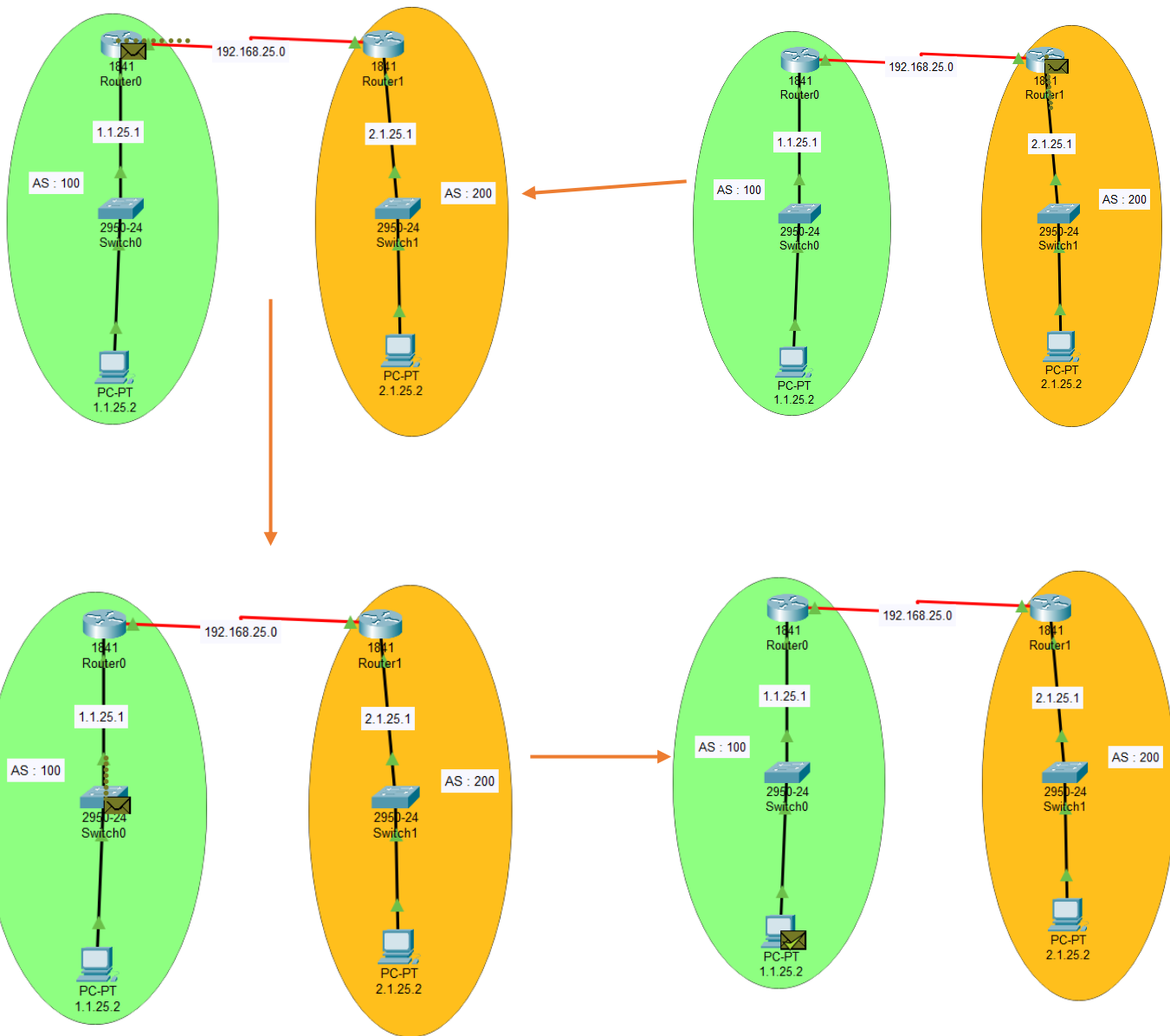
```
Router1
Physical Config CLI Attributes
IOS Command Line Interface

Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#router bgp 200
Router(config-router)#network 192.168.25.0
Router(config-router)#network 2.0.0.0
Router(config-router)#network 192.168.25.1 remote-as 100
% Invalid input detected at '^' marker.
Router(config-router)#neighbor 192.168.25.1 remote-as 100
Router(config-router)#%BGP-5-ADJCHANGE: neighbor 192.168.25.1 Up
Router(config-router)#network 1.1.25.2 remote-as 100
% Invalid input detected at '^' marker.
Router(config-router)#neighbor 1.1.25.2 remote-as 100
Router(config-router)#exit
Router(config)#

Ctrl+F6 to exit CLI focus
Copy Paste
```

Real Mode Simulation (BGP)





Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	1.1.25.2	ICMP
	0.001	1.1.25.2	Switch0	ICMP
	0.002	Switch0	Router0	ICMP
	0.003	Router0	Router1	ICMP
	0.004	Router1	Switch1	ICMP
	0.005	Switch1	2.1.25.2	ICMP
	0.006	2.1.25.2	Switch1	ICMP
	0.007	Switch1	Router1	ICMP
	0.008	Router1	Router0	ICMP
	0.009	Router0	Switch0	ICMP
	0.010	Switch0	1.1.25.2	ICMP

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Successful	1.1.25.2	2.1.25.2	ICMP		0.000	N	0