

Date: 12/9/24

### Lab Practical #11:

Study the concept of routing using packet tracer. (Dynamic Routing)

### Practical Assignment #11:

1. Connect the two different networks based on the calculated IP addresses and subnet using a packet tracer.

- **Step 1:** First, open the cisco packet tracer desktop and select the devices given below

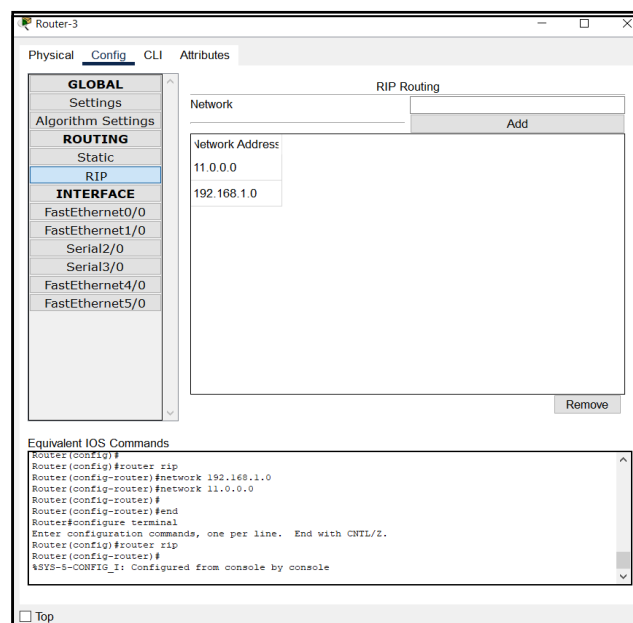
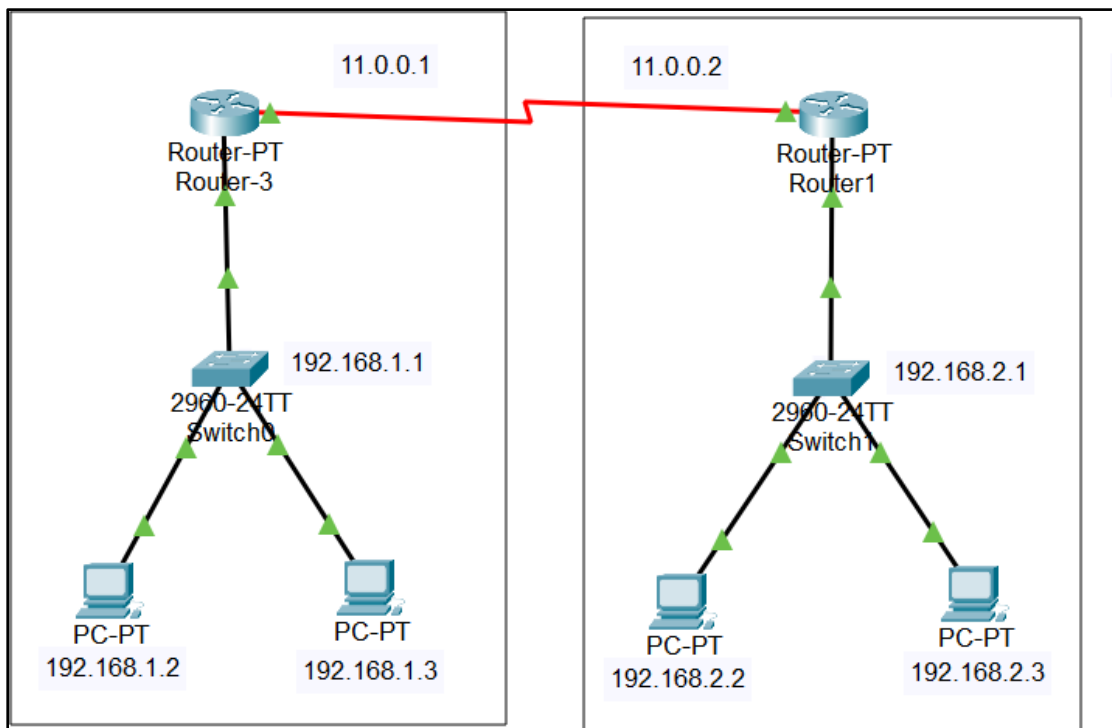
S.NO	Device	Model Name	Qty.
1.	PC	PC	4
2.	Switch	PT-Switch	2
3.	Router	PT-Router	2

- **Step 2: IP Addressing Table For PCs:**

S.NO	Device	IPv4 Address	Subnet Mask	Default Gateway
1.	PC0	192.168.1.2	255.255.255.0	192.168.1.1
2.	PC1	192.168.1.3	255.255.255.0	192.168.1.1
3.	PC2	192.168.2.2	255.255.255.0	192.168.2.1
4.	PC3	192.168.2.3	255.255.255.0	192.168.2.1

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- **Step 3:** Then, create a network topology as shown below the image.
- **Step 4 :** Use an Automatic connecting cable to connect the devices with others.



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2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer.

- **Step 1:** First, open the cisco packet tracer desktop and select the devices given below

S.NO	Device	Model Name	Qty.
1.	PC	PC	6
2.	Switch	PT-Switch	3
3.	Router	PT-Router	3

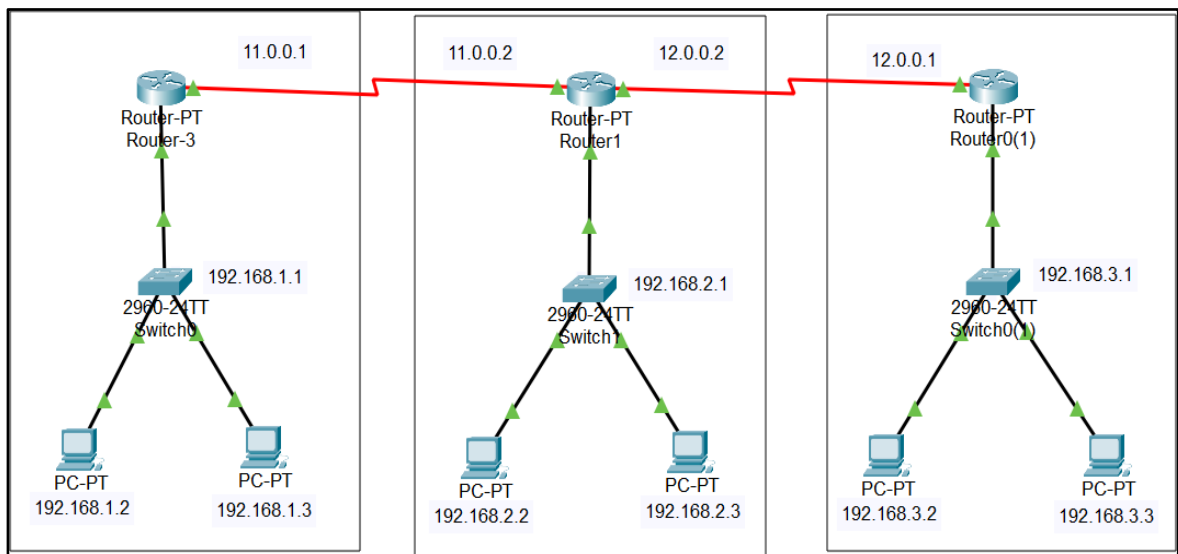
- **Step 2 : IP Addressing Table For PCs:**

S.NO	Device	IPv4 Address	Subnet Mask	Default Gateway
1.	PC0	192.168.10.2	255.255.255.0	192.168.10.1
2.	PC1	192.168.10.3	255.255.255.0	192.168.10.1
3.	PC2	192.168.20.2	255.255.255.0	192.168.20.1
4.	PC3	192.168.20.3	255.255.255.0	192.168.20.1
5.	PC4	192.168.30.2	255.255.255.0	192.168.30.1

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S.NO	Device	IPv4 Address	Subnet Mask	Default Gateway
6.	PC5	192.168.30.3	255.255.255.0	192.168.30.1

- **Step 3 :** Then, create a network topology as shown below the image.
- **Step 4 :** Use an Automatic connecting cable to connect the devices with others.



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Router1

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

Network Address

11.0.0.0

12.0.0.0

192.168.2.0

Add

Remove

Equivalent IOS Commands

Router>enable  
Router#  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#router rip  
Router(config-router)#

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