

Date: 10/09/2024

Lab Practical #10:

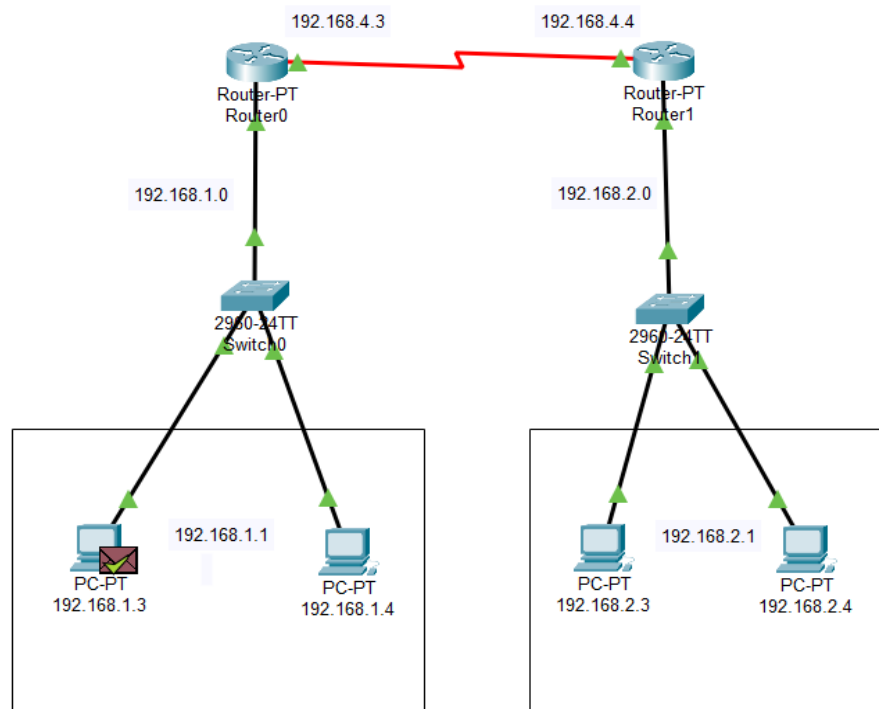
Study the concept of routing using packet tracer.(Static Routing)

Practical Assignment #10:

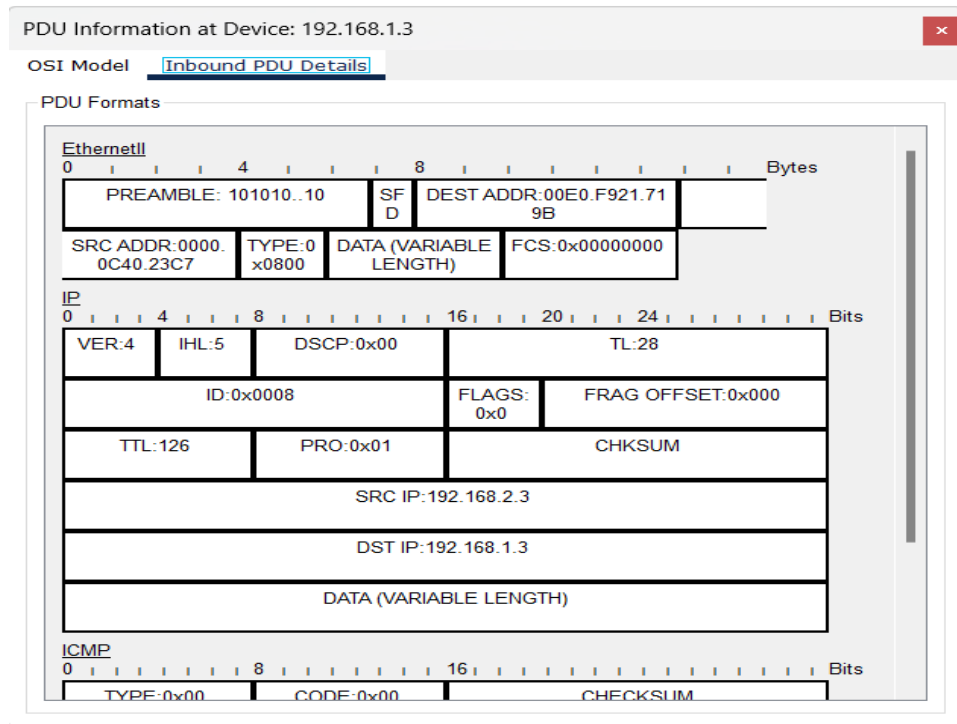
Instructions:

1. Static routing screenshot with routing table. (Take two or more different networks)
 2. RIP routing screenshot with routing table. (Take two or more different networks)
 3. Mention IP address of each node and network ID of each network as label.
 4. Pingcommand / Packettransfer screenshot between two different network nodes.
1. Connect the two different networks based on the calculated IP addresses and subnetusing a packet tracer.

Static:



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Router0

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP

INTERFACE

- FastEthernet0/0
- FastEthernet1/0
- Serial2/0
- Serial3/0
- FastEthernet4/0
- FastEthernet5/0

Static Routes

Network

Mask

Next Hop

Network Address

192.168.2.0/24 via 192.168.4.4

Equivalent IOS Commands

```
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#
%SYS-5-CONFIG_I: Configured from console by console

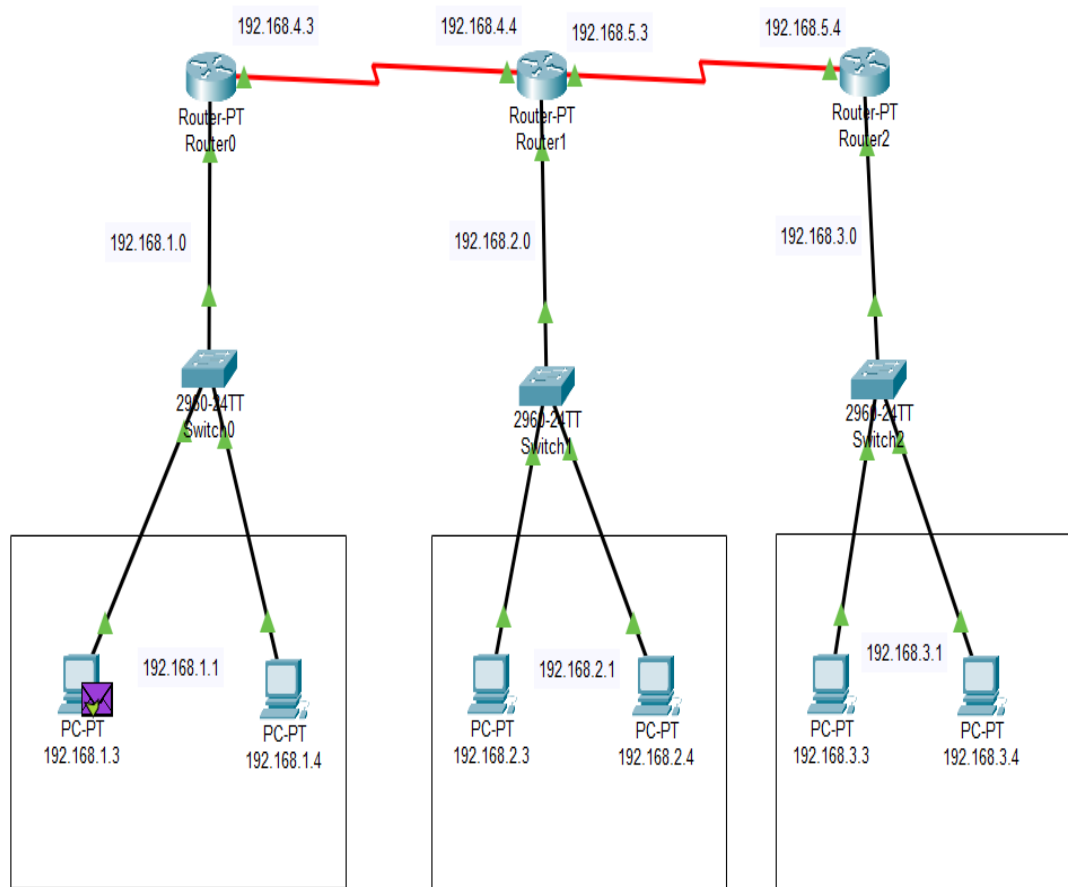
Router(config)#
Router(config)#ip route 192.168.2.0 255.255.255.0 192.168.4.4
Router(config)#
Router(config)#
Router(config)#
```

☐ Top

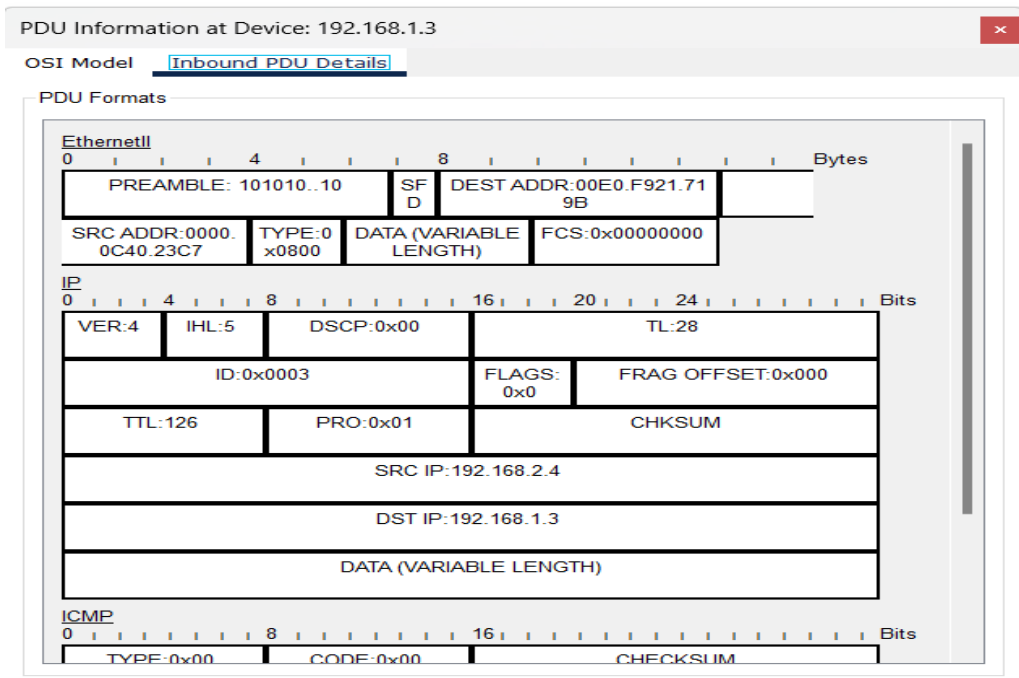
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2. Connect the three different networks based on the calculated IP addresses and subnetting a packet tracer.

Static:



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The screenshot displays the Cisco Packet Tracer environment with Router1 selected. The configuration window is open, showing the 'Static Routes' section. Three static routes have been added:

- Network Address: 192.168.1.0/24 via 192.168.4.3
- Network Address: 192.168.4.0/24 via 192.168.4.3
- Network Address: 192.168.3.0/24 via 192.168.5.4

The 'Equivalent IOS Commands' window at the bottom shows the following commands:

```
Router(config)#ip route 192.168.4.0 255.255.255.0 192.168.4.3
Router(config)#ip route 192.168.3.0 255.255.255.0 192.168.5.4
Router(config)#ip route 192.168.5.0 255.255.255.0 192.168.5.4
Router(config)#
Router(config)#
Router(config)#
Router(config)#
%SYS-5-CONFIG_I: Configured from console by console

Router(config)#
Router(config)#
Router(config)#
```