

Date: 20/09/2024

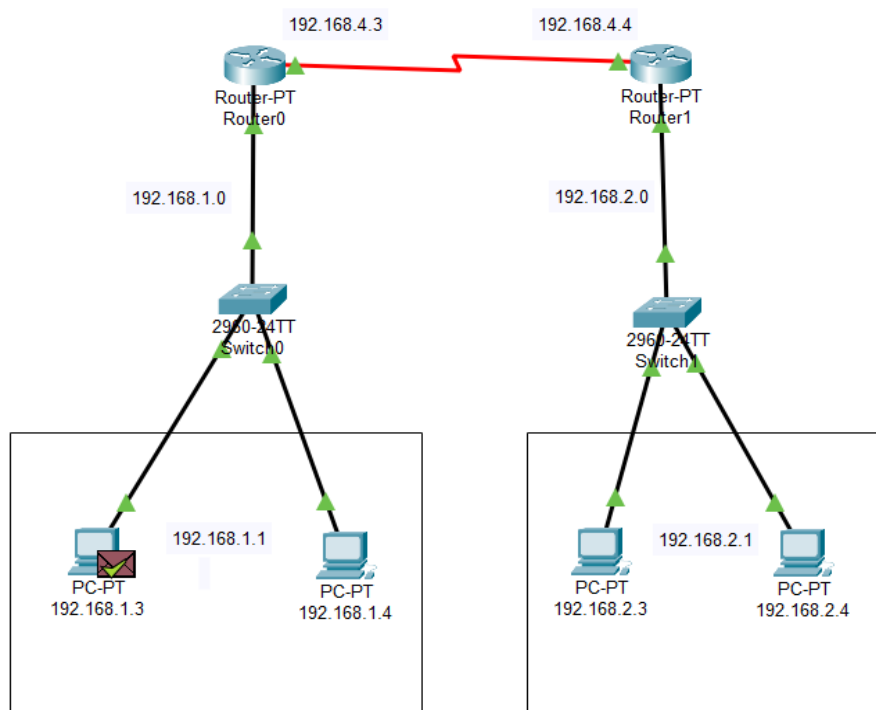
Lab Practical #10:

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

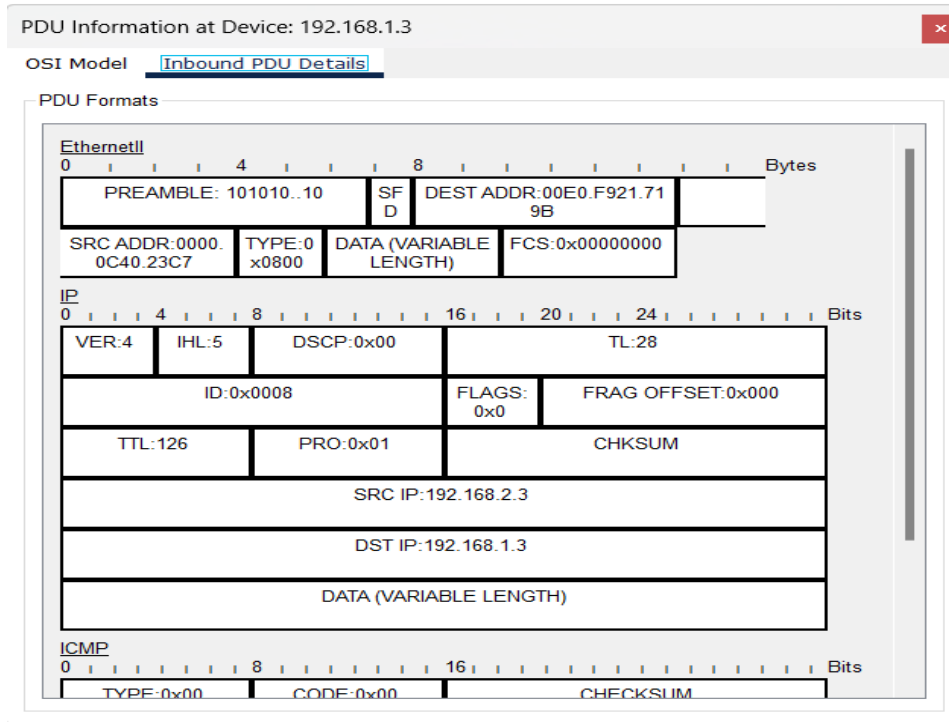
Practical Assignment #10:

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

Static:



Date: 20/09/2024



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

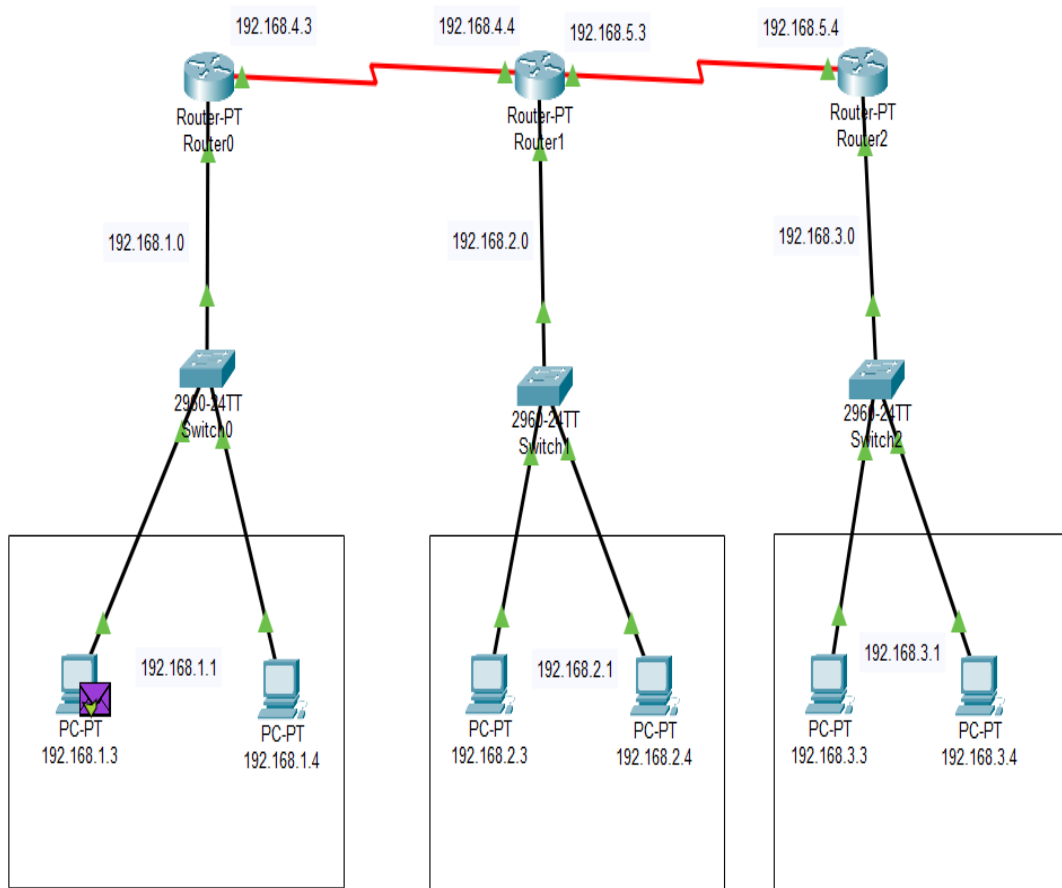
Router(config)#
Router(config)#ip route 192.168.2.0 255.255.255.0 192.168.4.4
Router(config)#
Router(config)#
Router(config)#
```

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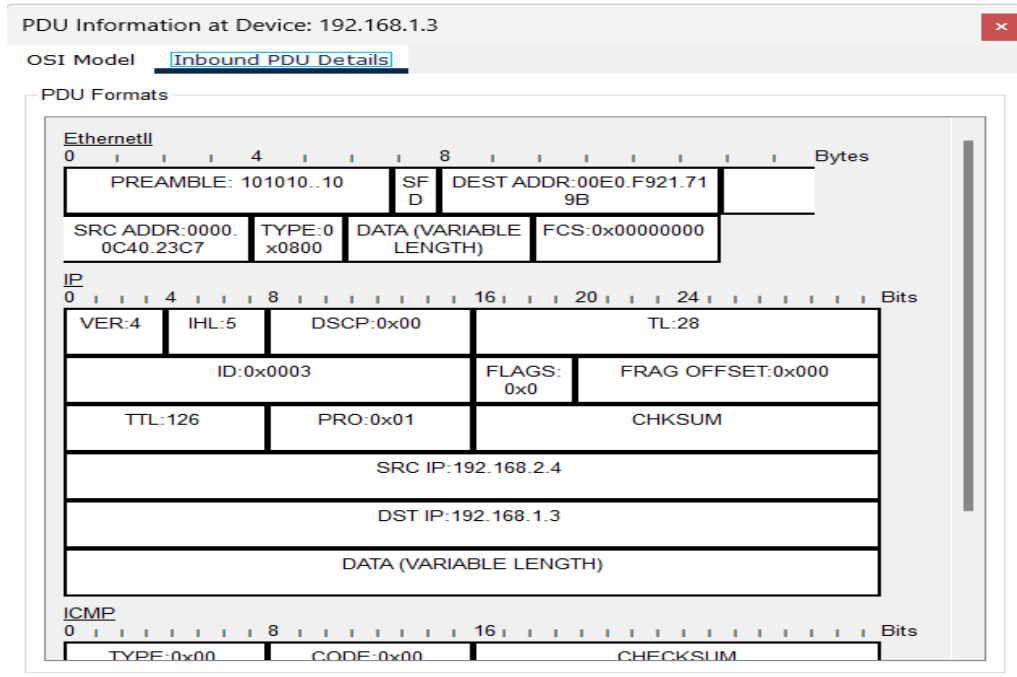
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2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer.

Static:



Date: 20/09/2024



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

Static Routes

Network:

Mask:

Next Hop:

Network Address

192.168.1.0/24 via 192.168.4.3
192.168.4.0/24 via 192.168.4.3
192.168.3.0/24 via 192.168.5.4
192.168.5.0/24 via 192.168.5.4

Equivalent IOS 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)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
```

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