

Date: 01/10/2023

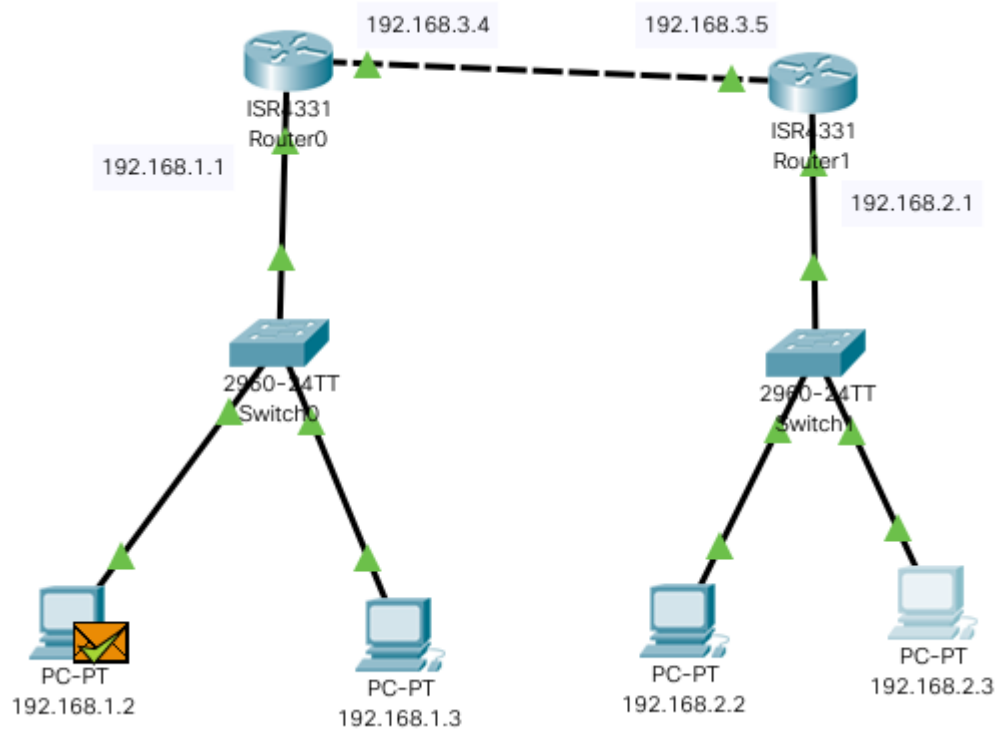
### Lab Practical #10:

Study the concept of routing using packet tracer.

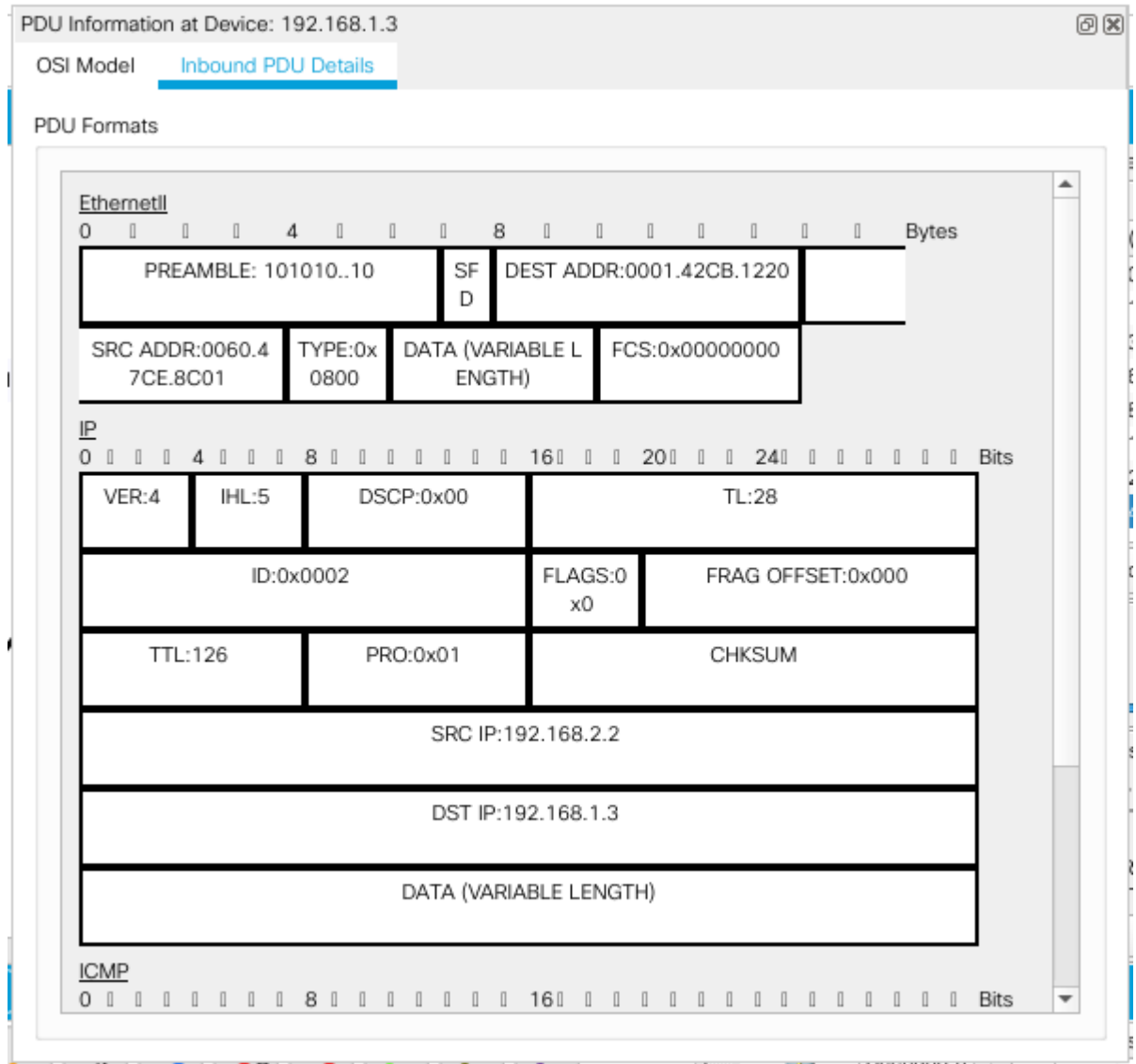
### Practical Assignment #10:

1. Connect the two different networks based on the calculated IP addresses and subnet using a packet tracer. (Static & Dynamic Routing).

Static:

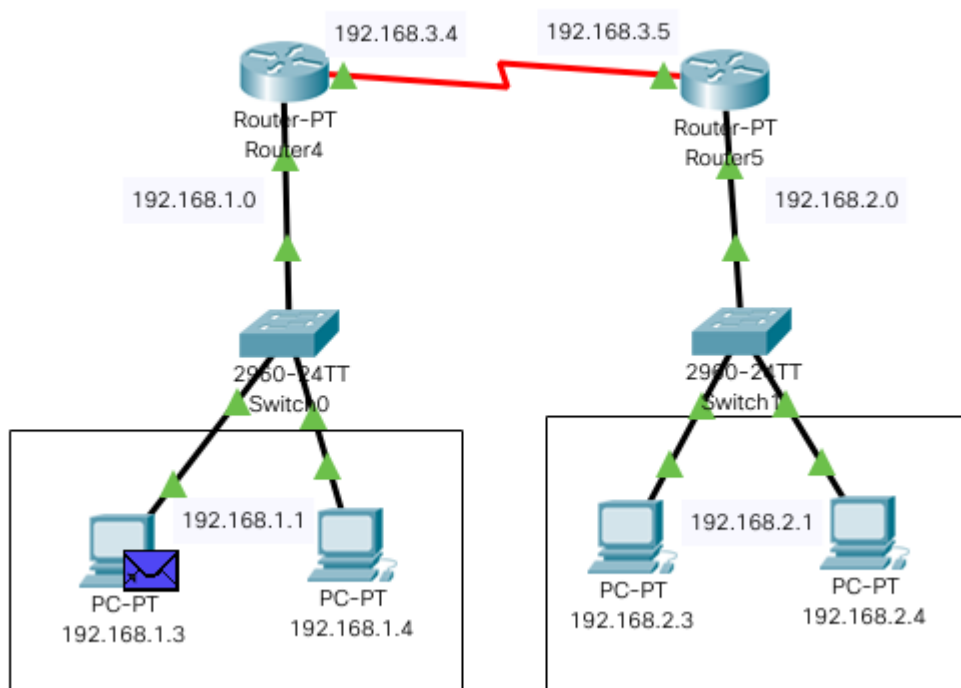


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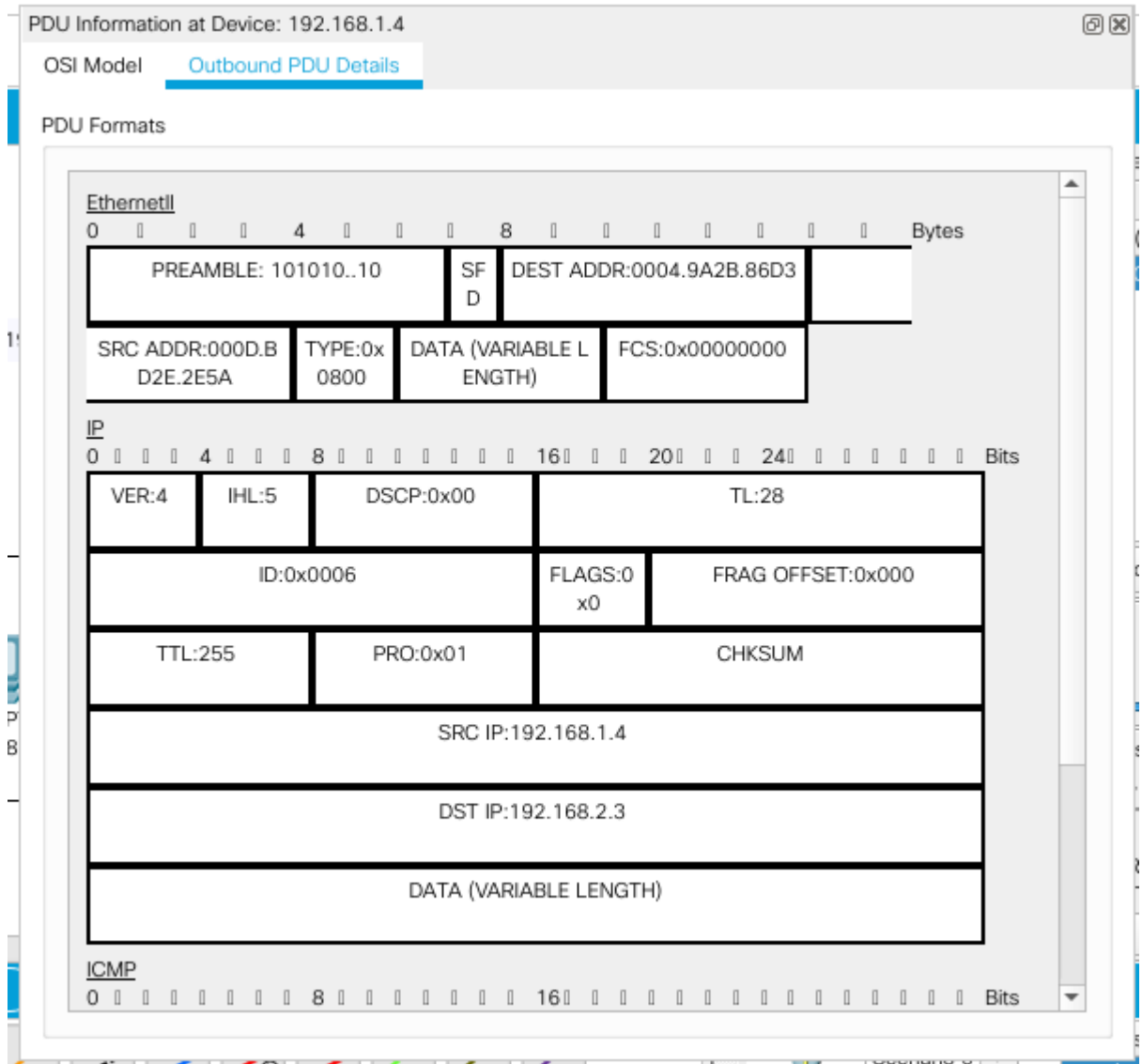


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Dynamic:



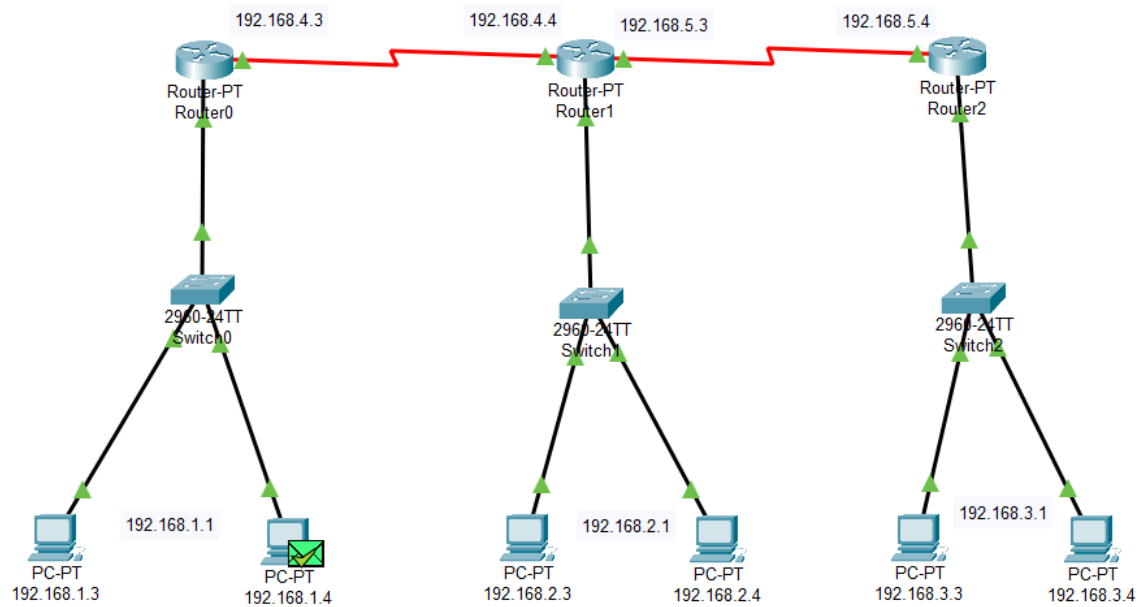
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2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer. (Static & Dynamic Routing).

Static:

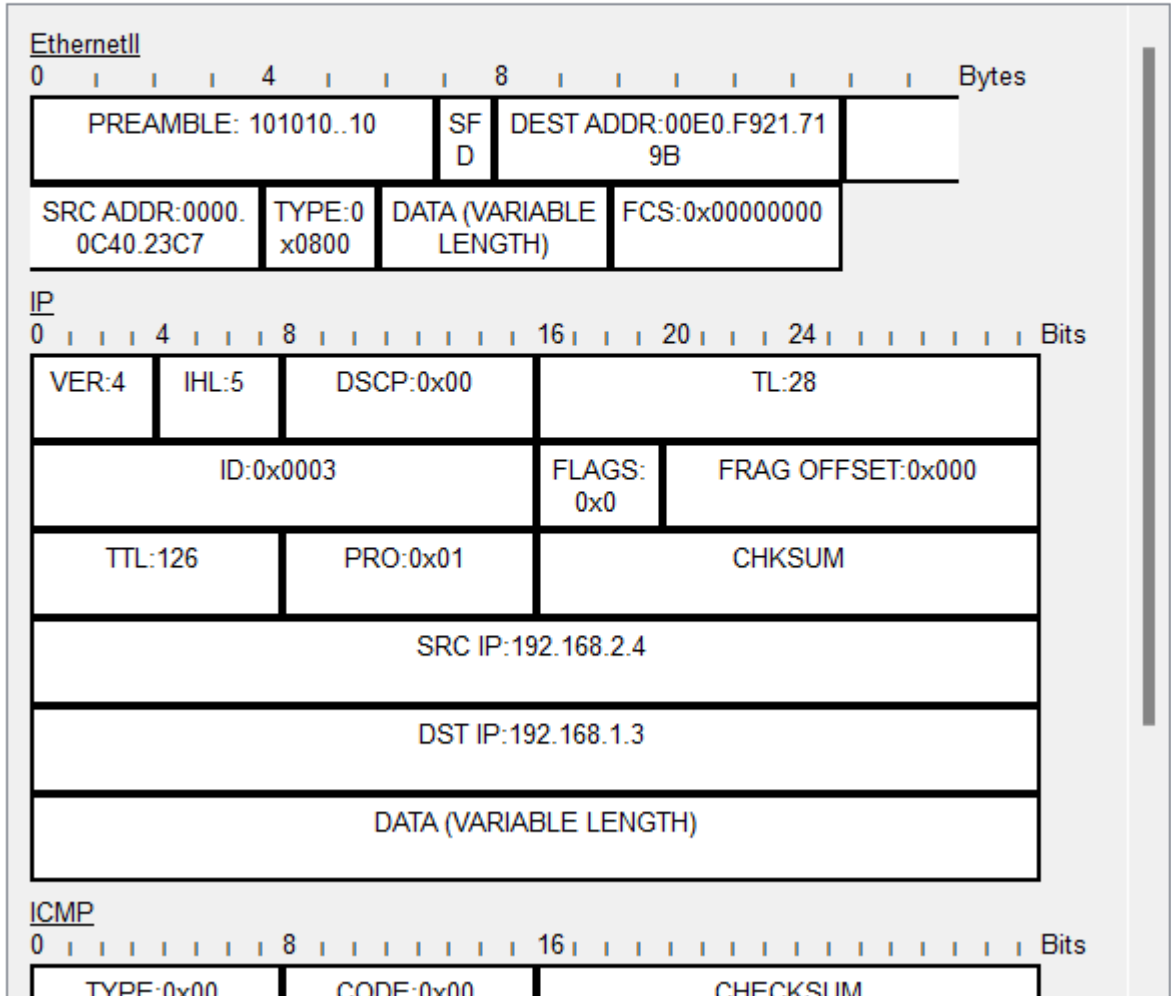


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PDU Information at Device: 192.168.1.3

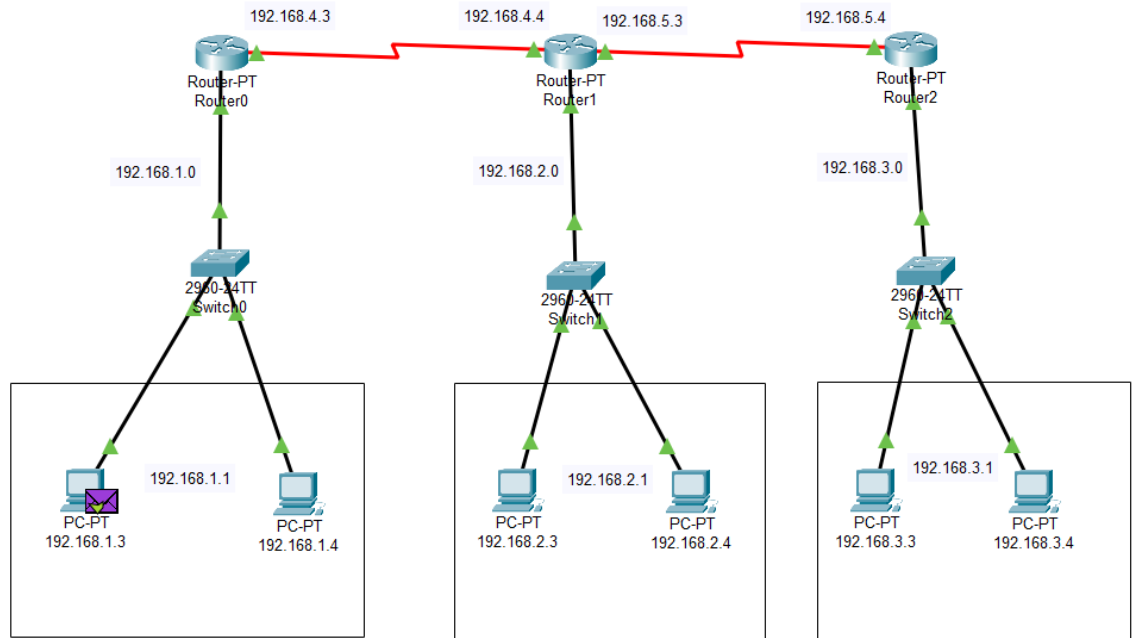
OSI Model Inbound PDU Details

PDU Formats



**Date: 01/10/2023**

Dynamic:



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PDU Information at Device: 192.168.1.4

OSI Model Inbound PDU Details

PDU Formats

EthernetII

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Bytes																													
PREAMBLE: 101010..10										SF D		DEST ADDR: 00E0.F726.01 20																	
SRC ADDR: 0000.0C40.23C7										TYPE: 0x0800				DATA (VARIABLE LENGTH)										FCS: 0x00000000					

IP

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Bits																															
VER: 4		IHL: 5		DSCP: 0x00				TL: 28																							
ID: 0x0003										FLAGS: 0x0				FRAG OFFSET: 0x000																	
TTL: 125				PRO: 0x01				CHKSUM																							
SRC IP: 192.168.3.3																															
DST IP: 192.168.1.4																															
DATA (VARIABLE LENGTH)																															

ICMP

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Bits																					
TYPE: 0x00				CODE: 0x00				CHECKSUM													

**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. Ping command / Packet transfer screenshot between two different network nodes.