

Date: 01/10/2023

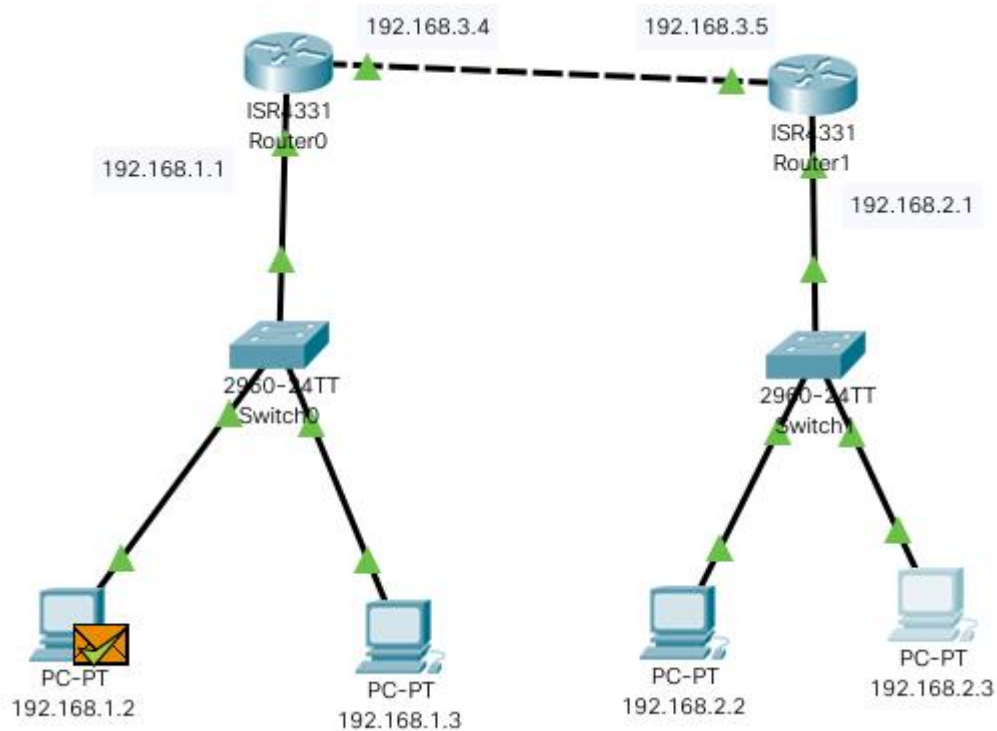
Lab Practical #10:

Study the concept of routing using packet tracer.

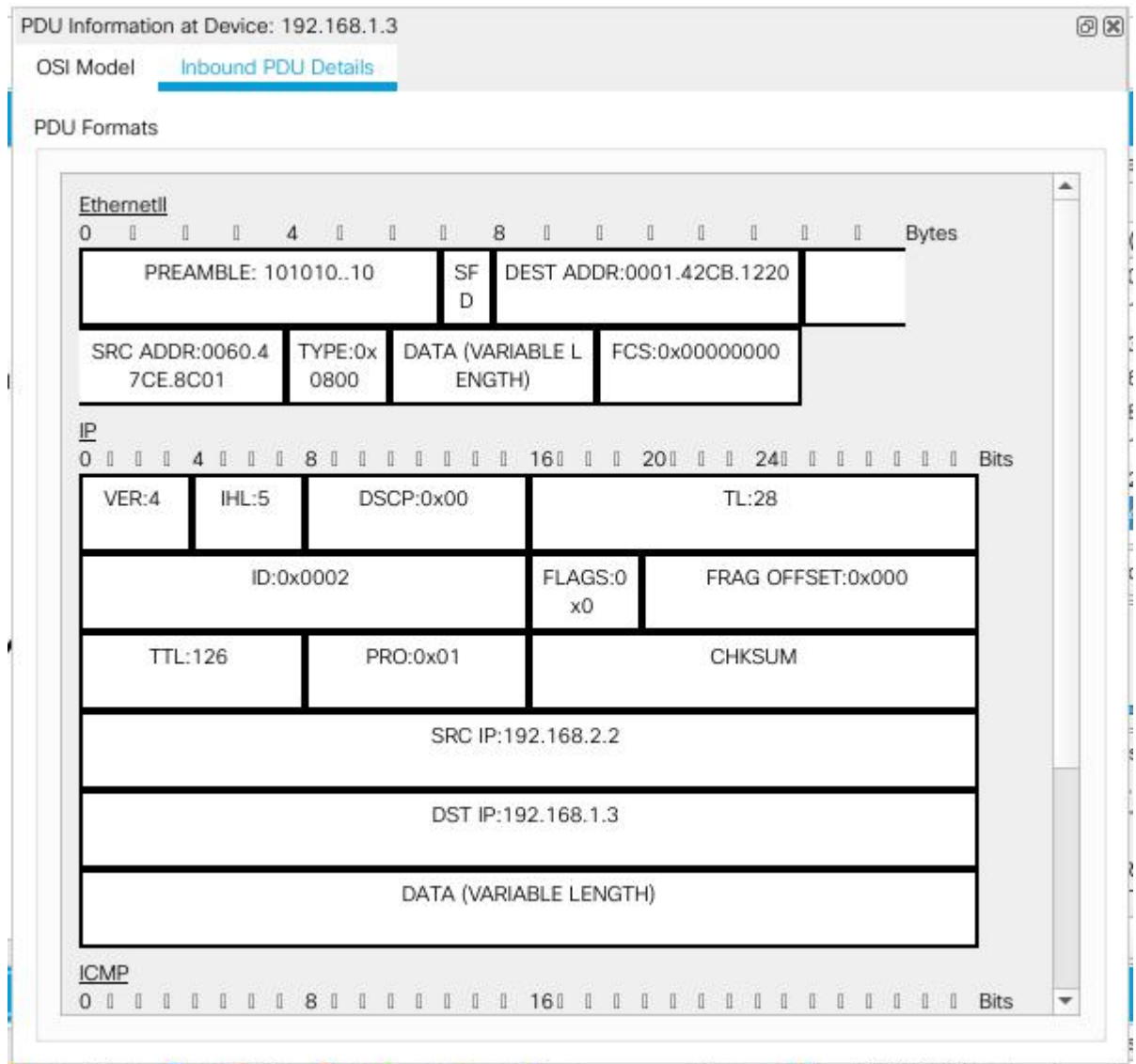
Practical Assignment #10:

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

Static:

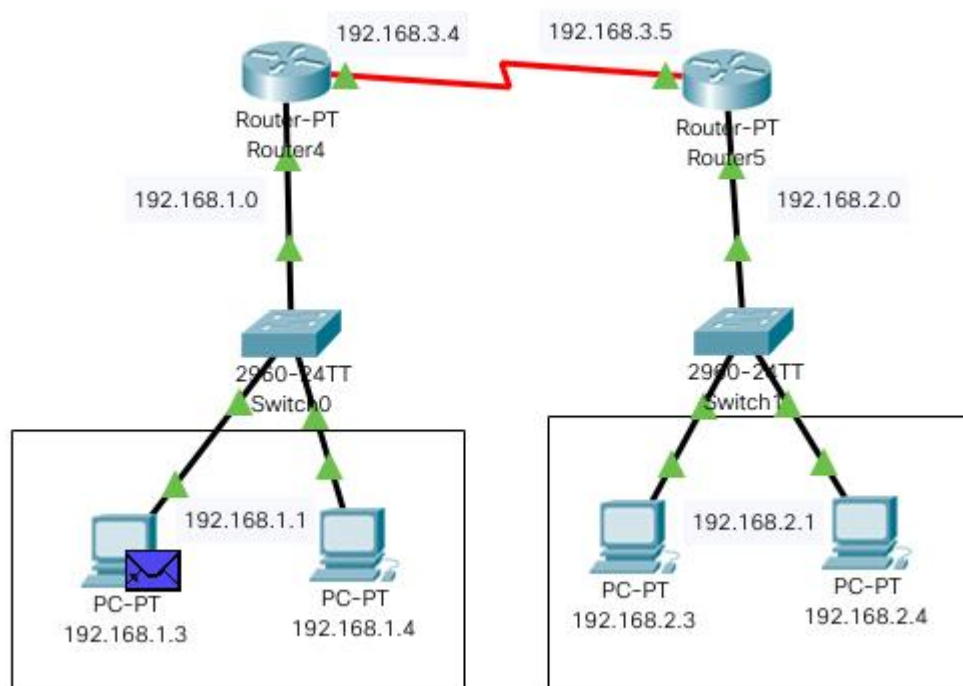


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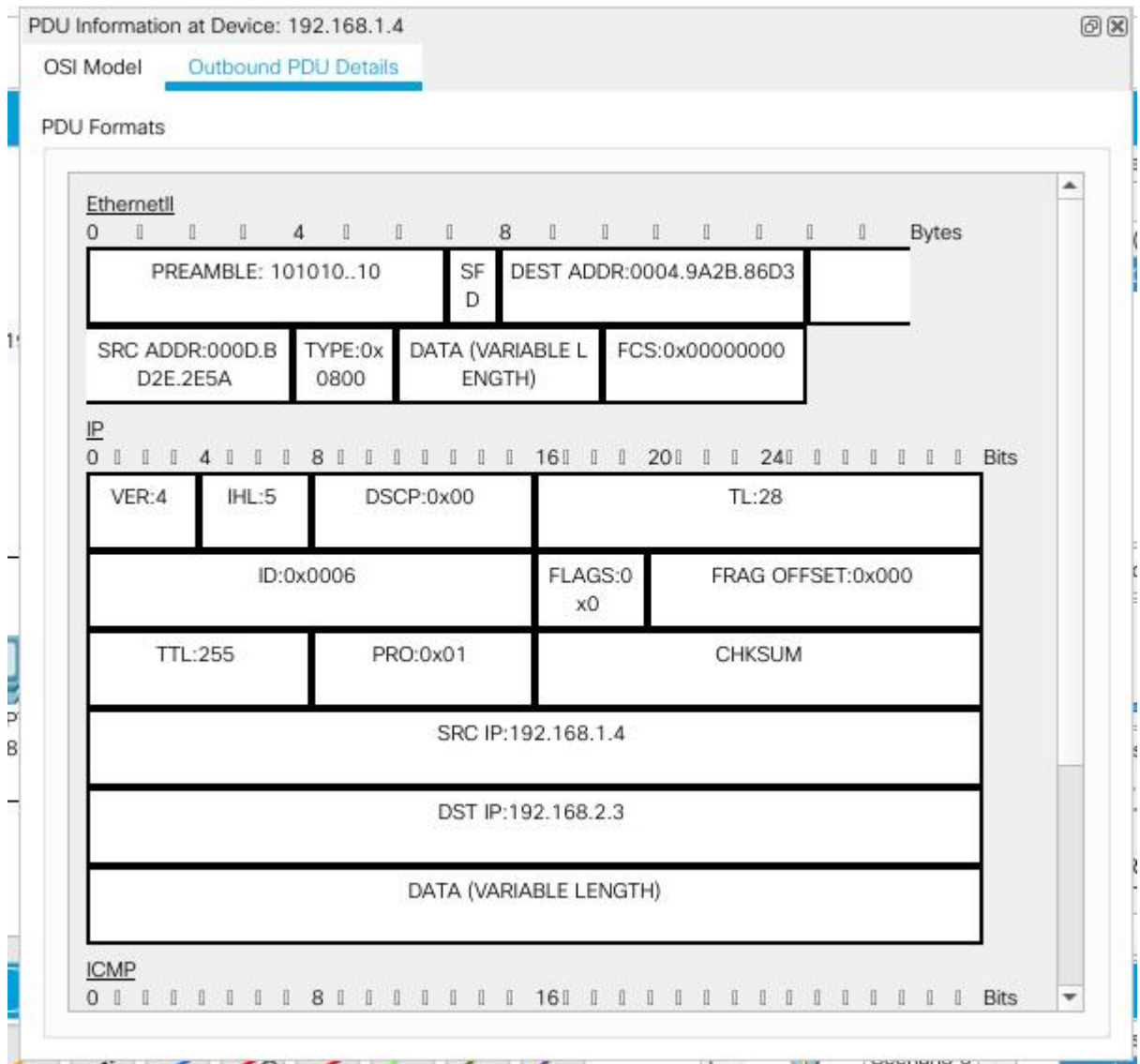


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Dynamic:



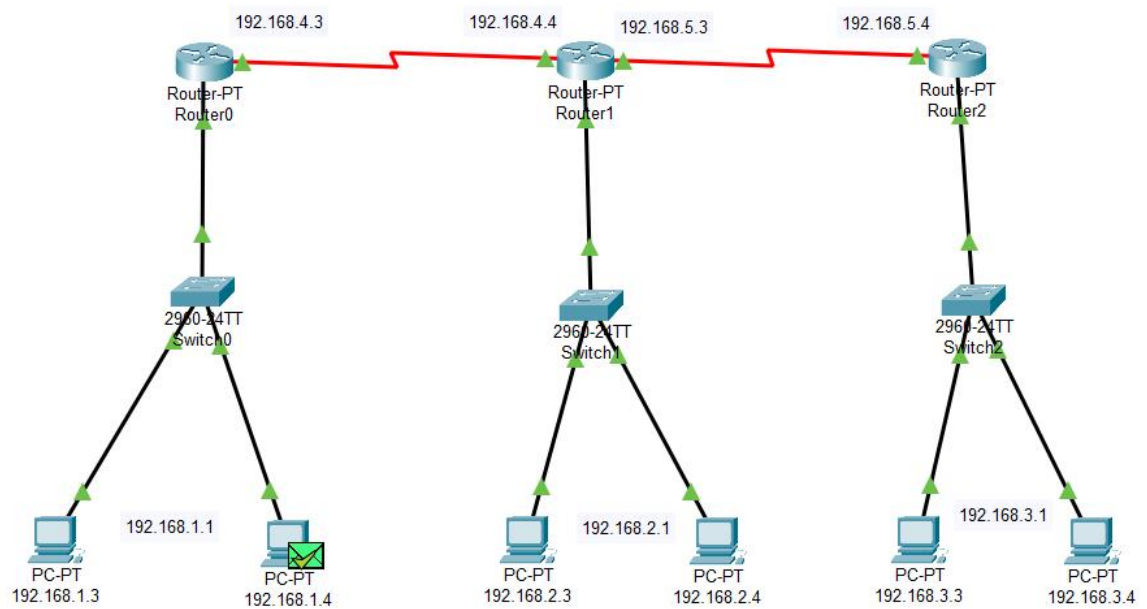
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2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer. (Static & Dynamic Routing).

Static:

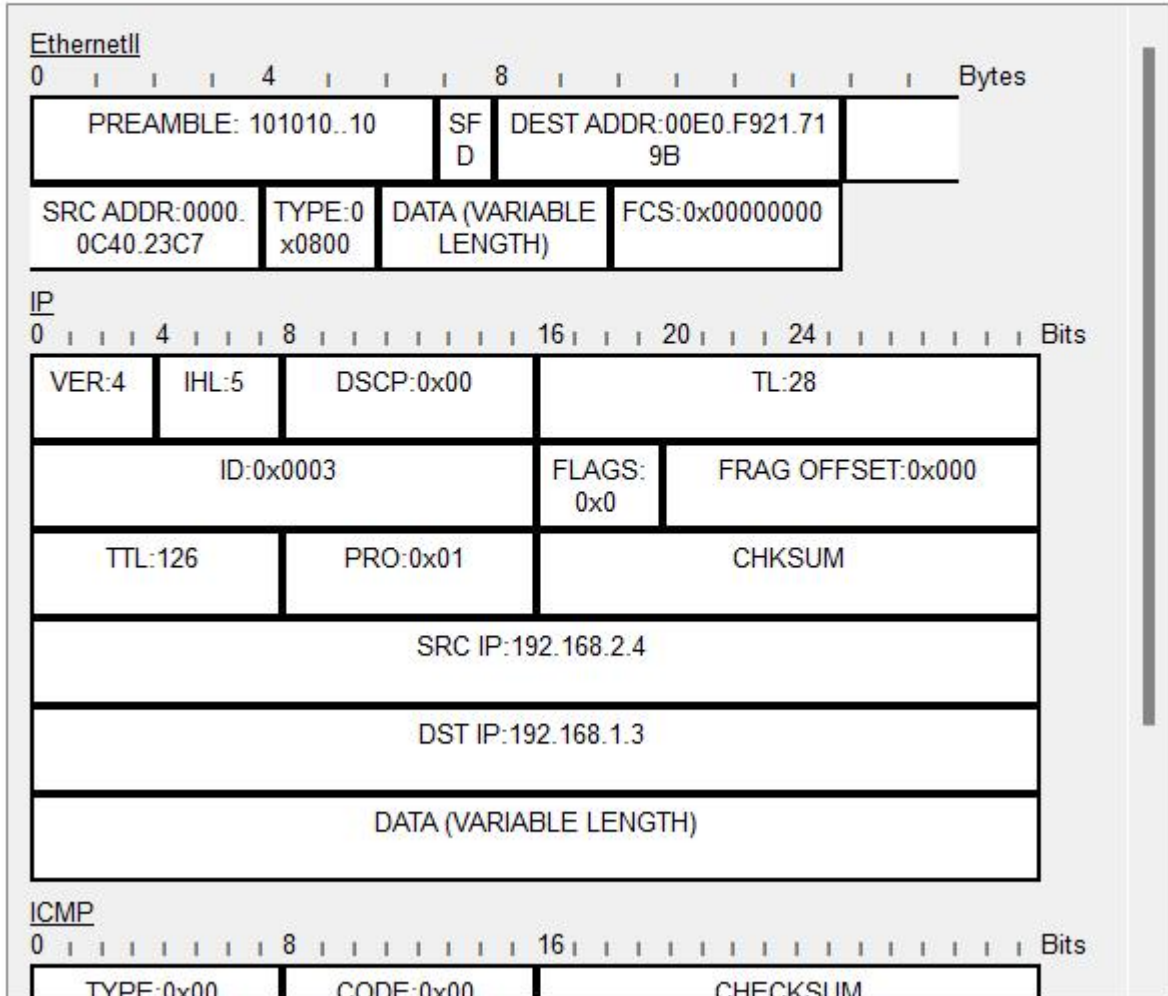


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PDU Information at Device: 192.168.1.3

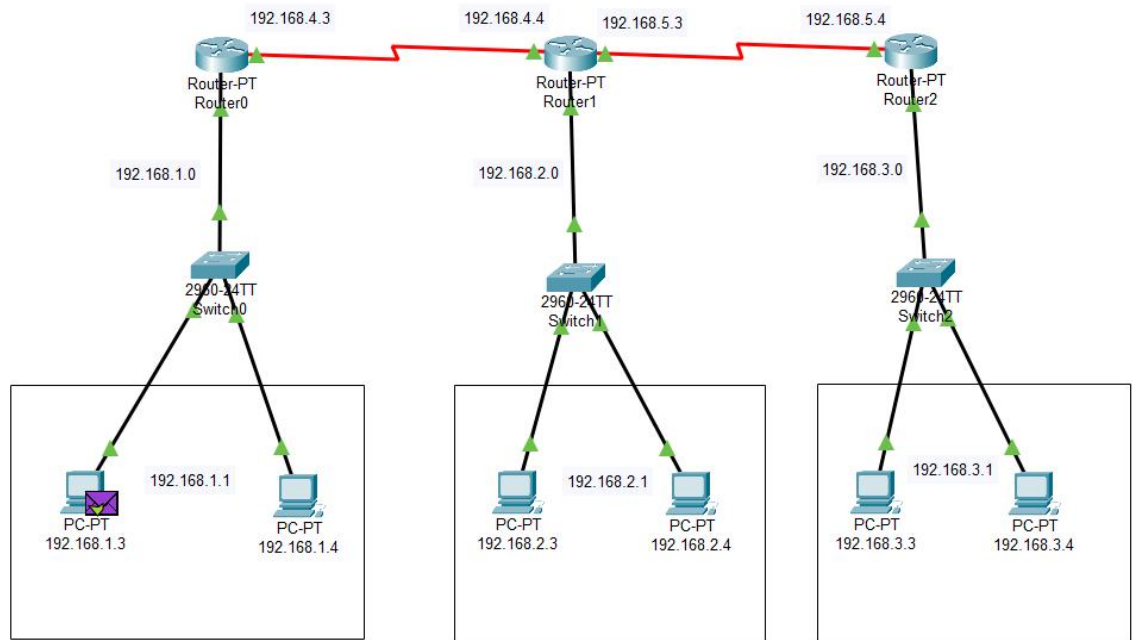
OSI Model Inbound PDU Details

PDU Formats



Date: 01/10/2023

Dynamic:





PDU Information at Device: 192.168.1.4

OSI Model Inbound PDU Details

PDU Formats

EthernetII

Bytes																
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
PREAMBLE: 101010...10								SF	DEST ADDR: 00E0.F726.01							
								D	20							
SRC ADDR: 0000.0C40.23C7				TYPE: 0x0800		DATA (VARIABLE LENGTH)				FCS: 0x00000000						

IP

Bits																																	
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		
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

Bits																															
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
TYPE: 0x00								CODE: 0x00								CHECKSUM															

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.