

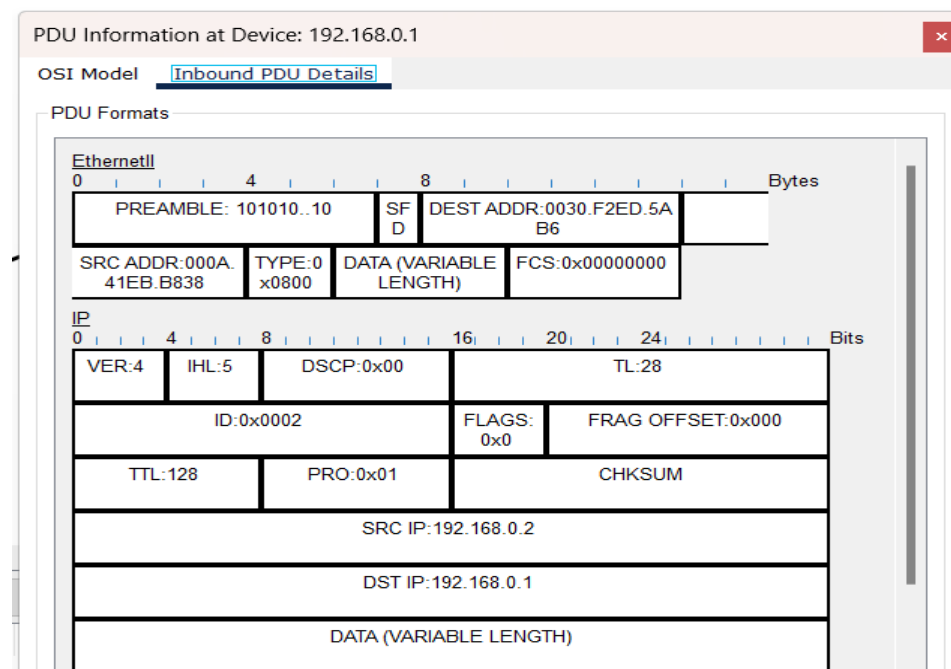
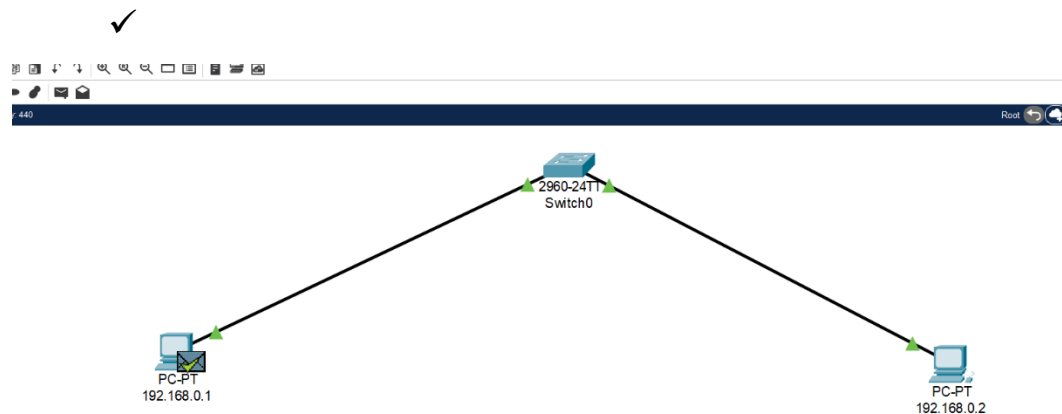
Date: 17 / 07 / 24

Lab Practical #04:

Installation of Network Simulator (Packet Tracer) and Implement different LAN topologies.

Practical Assignment #04:

1. Create a simple network with switch and two or more pc. Also check connectivity between them using ping command or PDU utility.

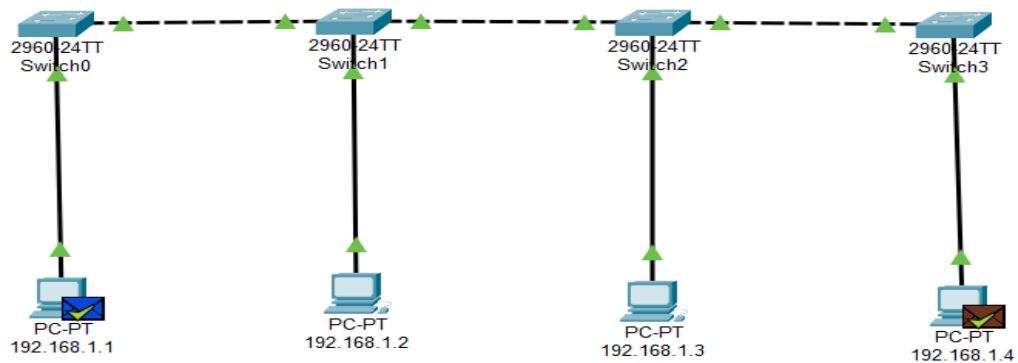


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2. Implement different topologies in packet tracer.

- Bus
- Ring
- Star
- Mesh
- Tree

✓ Bus Topology:

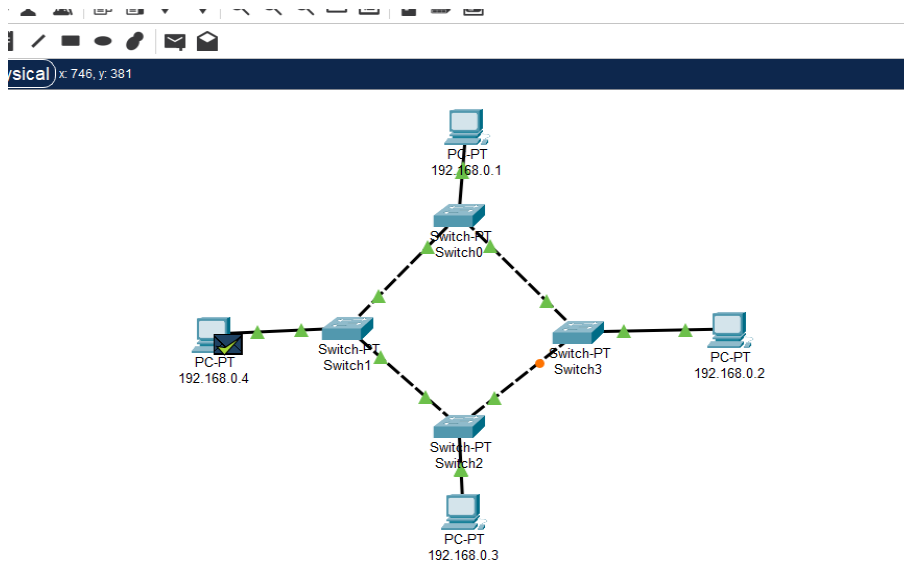


PDU Formats

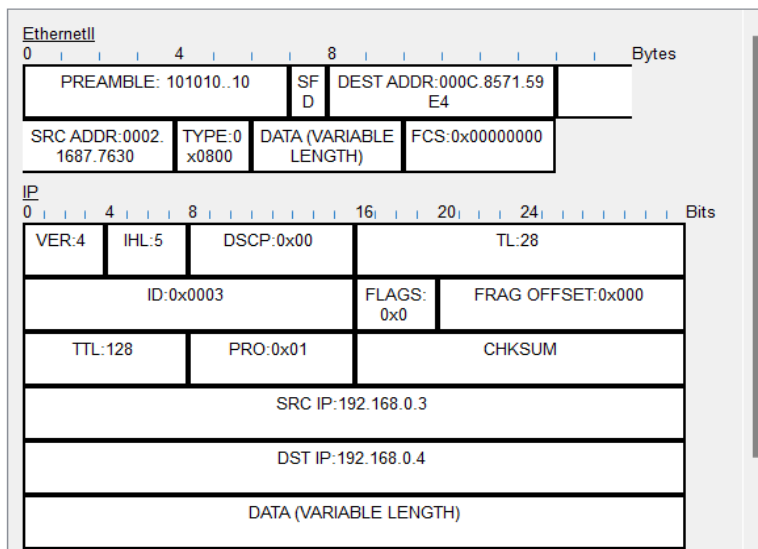
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Date: 17 / 07 / 24

✓ Ring Topology :

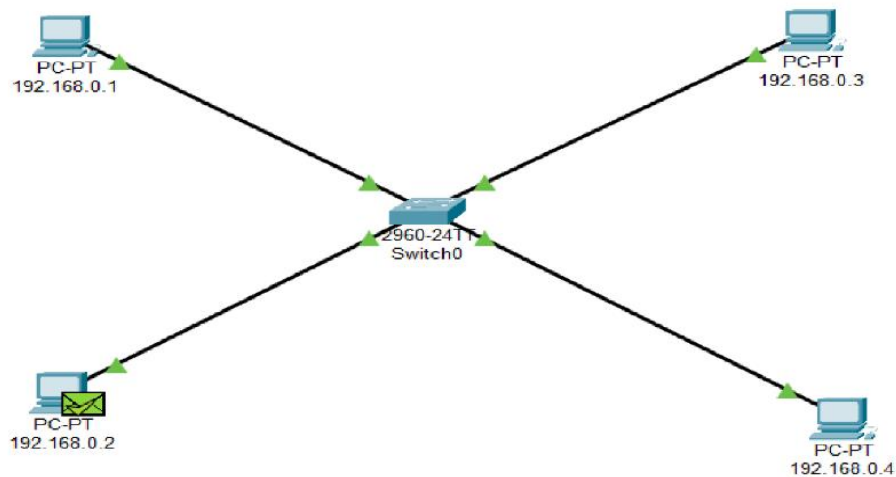


PDU Formats



Date: 17 / 07 / 24

✓ **Star Topology :**



PDU Information at Device: 192.168.0.2

OSI Model [Inbound PDU Details](#)

PDU Formats

EthernetII

0 4 8 Bytes			
PREAMBLE: 101010...10		SF D	DEST ADDR: 00D0.BC55.02 67
SRC ADDR: 0006.2AE4.D82D	TYPE: 0x0800	DATA (VARIABLE LENGTH)	

IP

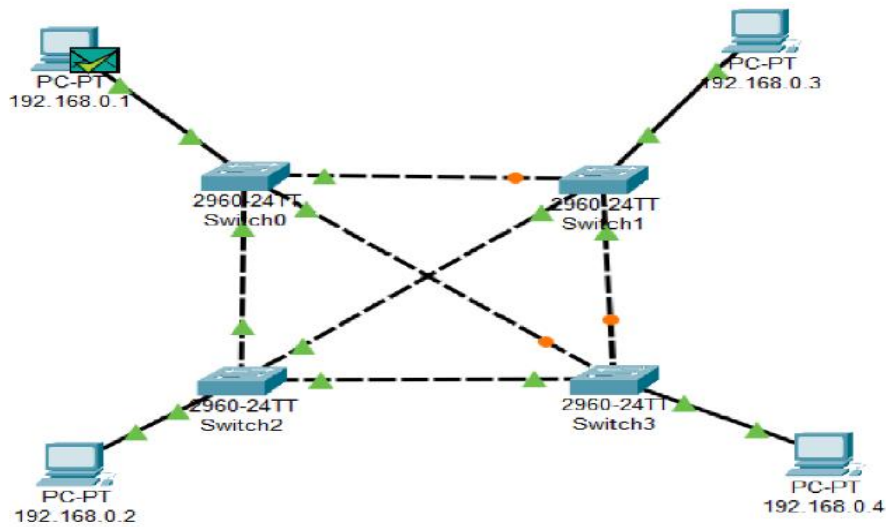
0 4 8 16 20 24 Bits			
VER: 4	IHL: 5	DSCP: 0x00	TL: 28
ID: 0x0002		FLAGS: 0x0	FRAG OFFSET: 0x000
TTL: 120	PRO: 0x01	CHKSUM	
SRC IP: 192.168.0.3			
DST IP: 192.168.0.2			
DATA (VARIABLE LENGTH)			

ICMP

0 8 16 Bits		
TYPE: 0x00	CODE: 0x00	CHECKSUM

Date: 17 / 07 / 24

✓ **Mesh Topology :**



PDU Information at Device: 192.168.0.1

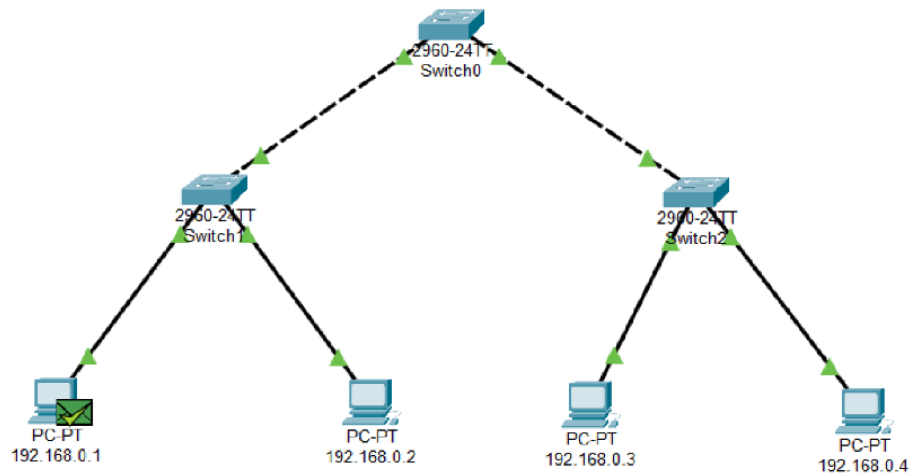
OSI Model [Inbound PDU Details](#)

PDU Formats

EthernetII			
Bytes			
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SRC ADDR: 0005.5E2D.52E8	TYPE: 0x0800	DATA (VARIABLE LENGTH)	FCS: 0x00000000
IP			
Bits			
VER: 4	IHL: 5	DSCP: 0x00	TL: 28
ID: 0x0003		FLAGS: 0x0	FRAG OFFSET: 0x000
TTL: 128	PRO: 0x01	CHKSUM	
SRC IP: 192.168.0.2			
DST IP: 192.168.0.1			
DATA (VARIABLE LENGTH)			
ICMP			
Bits			
TYPE: 0x00	CODE: 0x00	CHECKSUM	

Date: 17 / 07 / 24

✓ Tree:



PDU Information at Device: 192.168.0.1

OSI Model [Inbound PDU Details](#)

PDU Formats

