

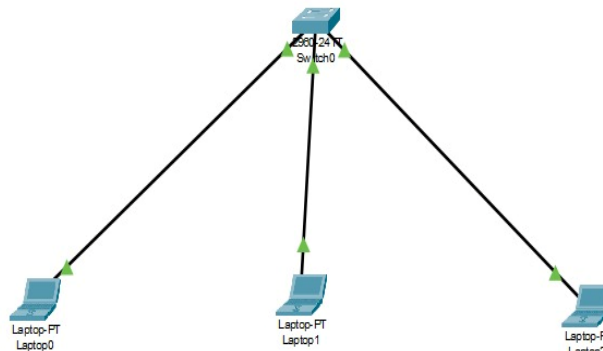
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Lab Practical #04:

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.



PDU Information at Device: 192.168.1.2

OSI Model [Inbound PDU Details](#)

PDU Formats

EthernetII			
Bytes			
PREAMBLE: 101010...10		SFD	DEST ADDR: 00E0.B051.06EE
SRC ADDR: 0060.5C70.2A57	TYPE: 0x0800	DATA (VARIABLE LENGTH)	
FCS: 0x00000000			

IP			
Bits			
VER: 4	IHL: 5	DSCP: 0x00	TL: 28
ID: 0x0007		FLAGS: 0x0	FRAG OFFSET: 0x000
TTL: 128	PRO: 0x01	CHKSUM	
SRC IP: 192.168.1.6			
DST IP: 192.168.1.2			
DATA (VARIABLE LENGTH)			

ICMP		
Bits		
TYPE: 0x00	CODE: 0x00	CHECKSUM
ID: 0x0008		SEQ NUMBER: 7

Variable Size PDU	
Bytes	
DATA (VARIABLE LENGTH)	

Date: / /

2. Implement different topologies in packet tracer.

a. Bus

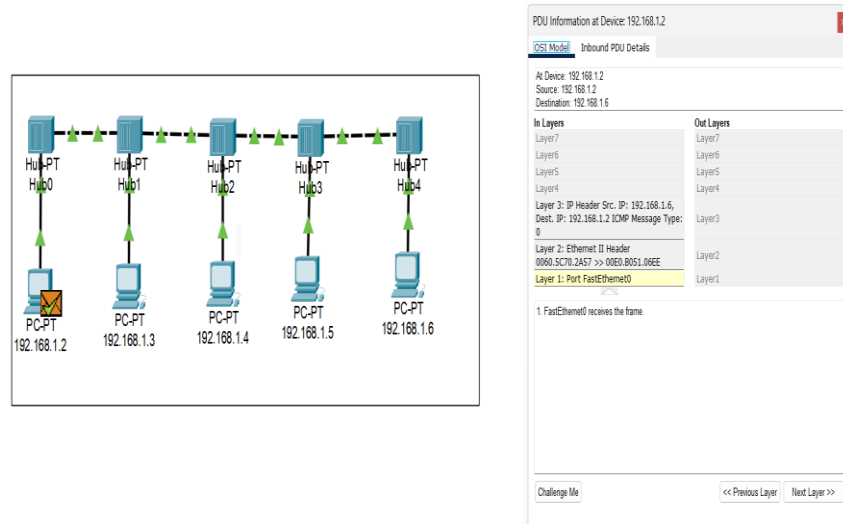


Figure1.1 Bus topology

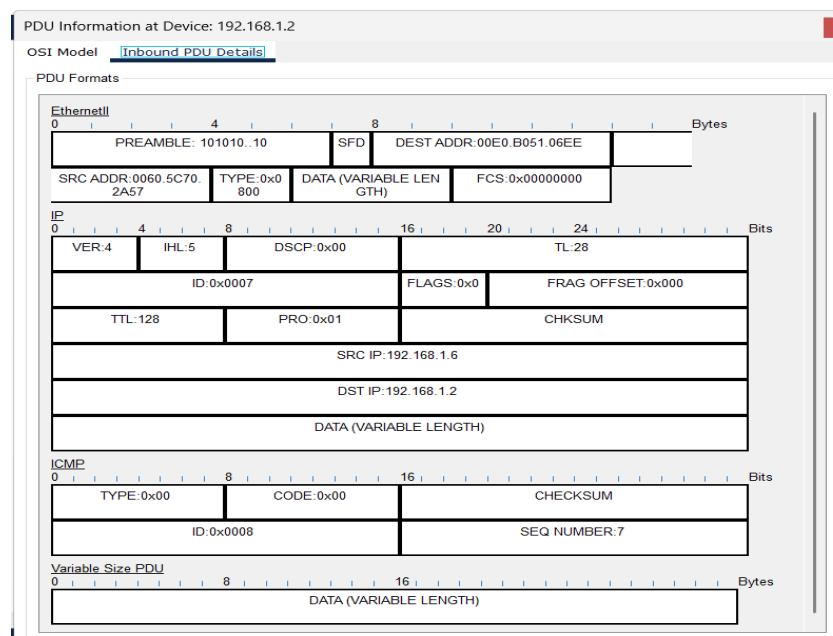


Figure 1.2 Bus topology

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b. Ring

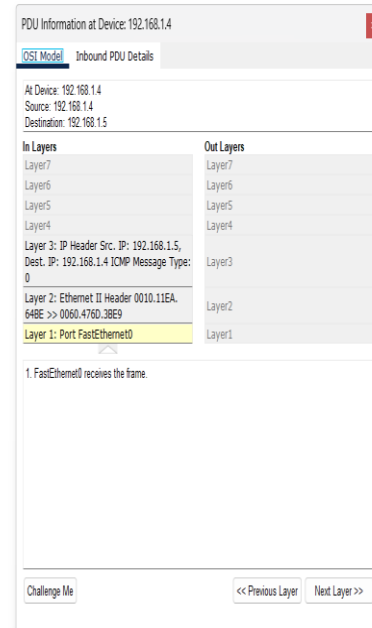
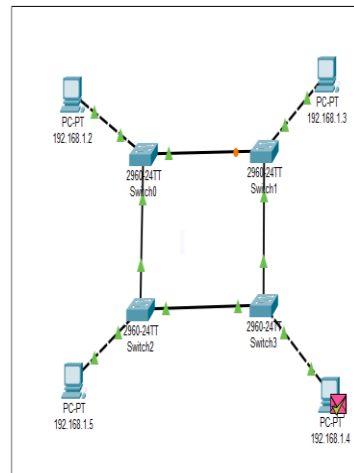


Figure 2.1 Ring topology

PDU Formats

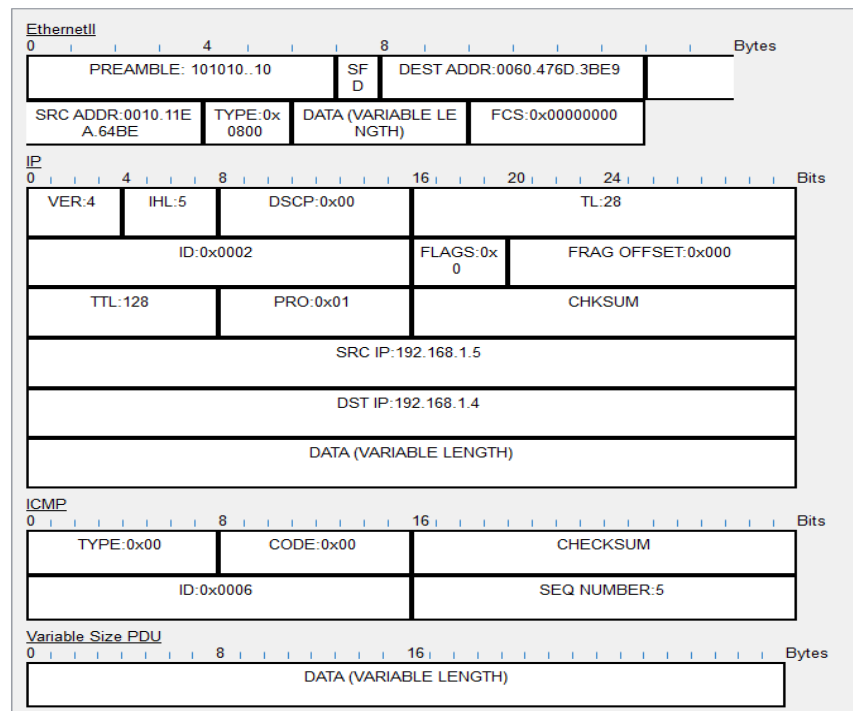


Figure 2.2 Ring topology

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c. Star

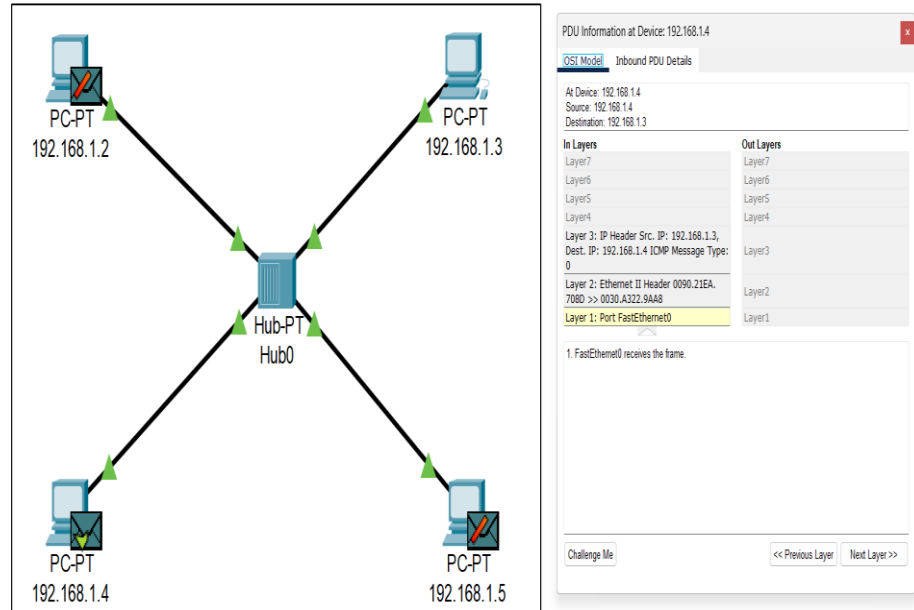


Figure 3.1 Star topology

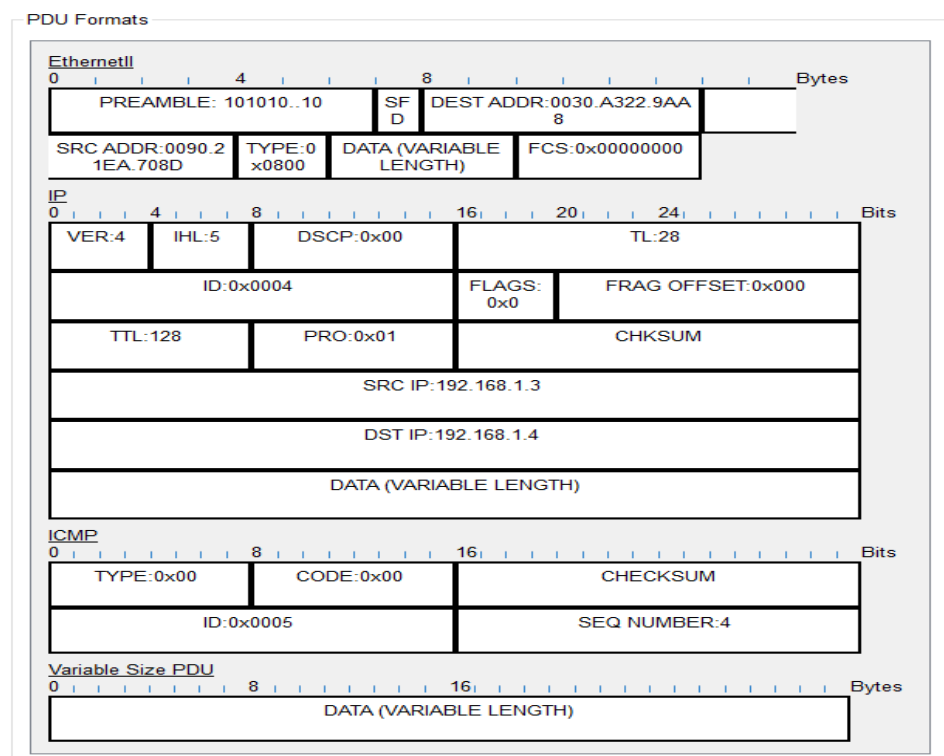


Figure 3.2 Star topology

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d. Mesh

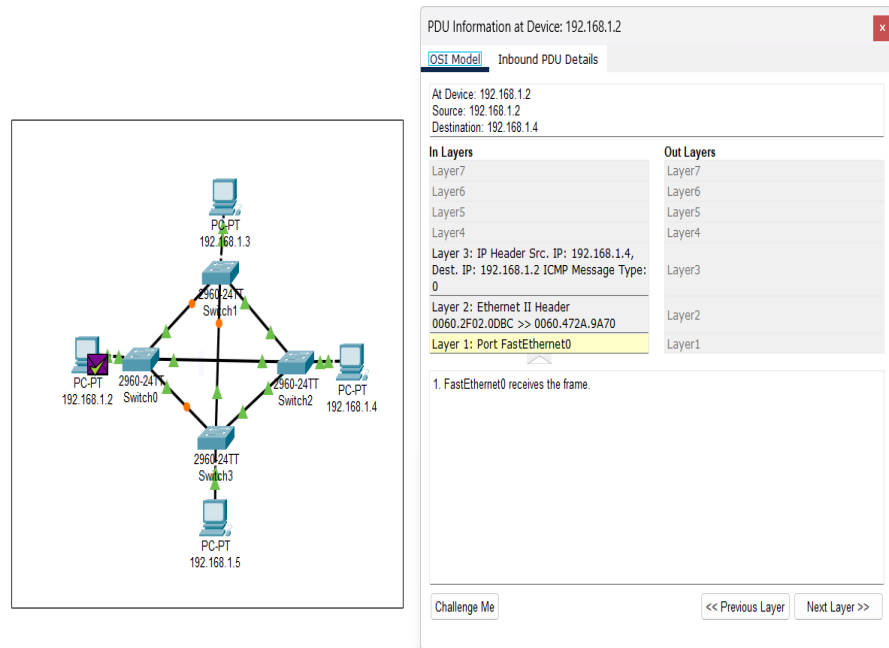


Figure 4.1 Mesh topology

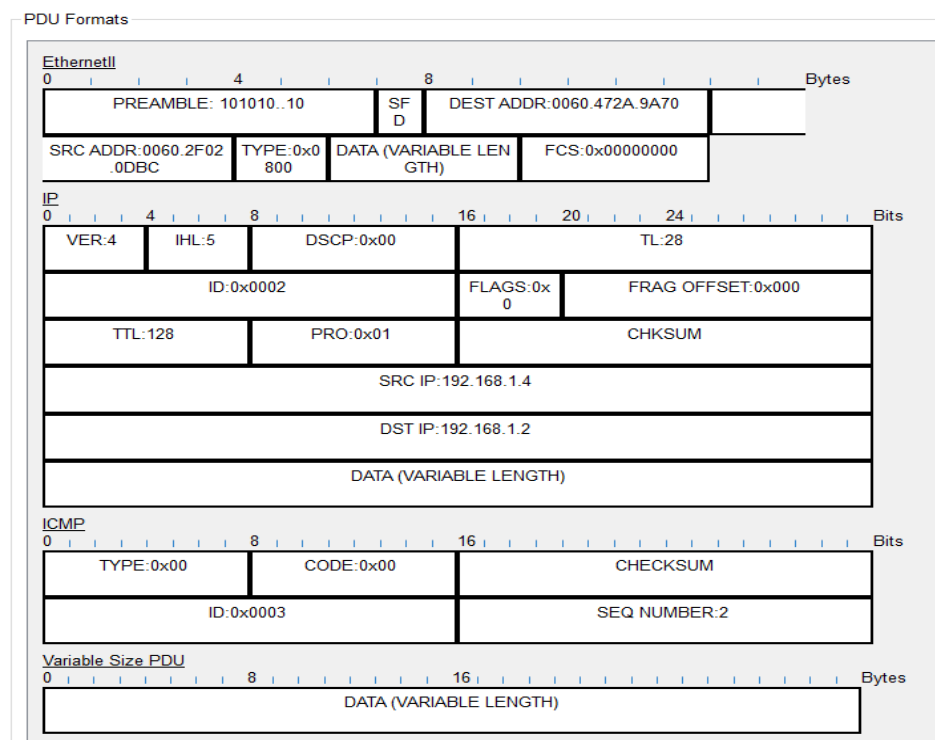


Figure 4.2 Mesh topology

e. Tree

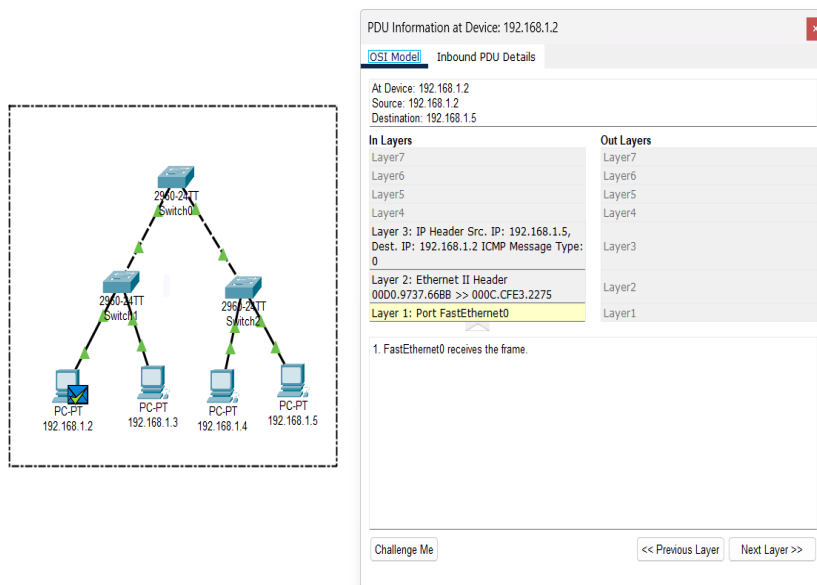


Figure 5.1 Tree topology

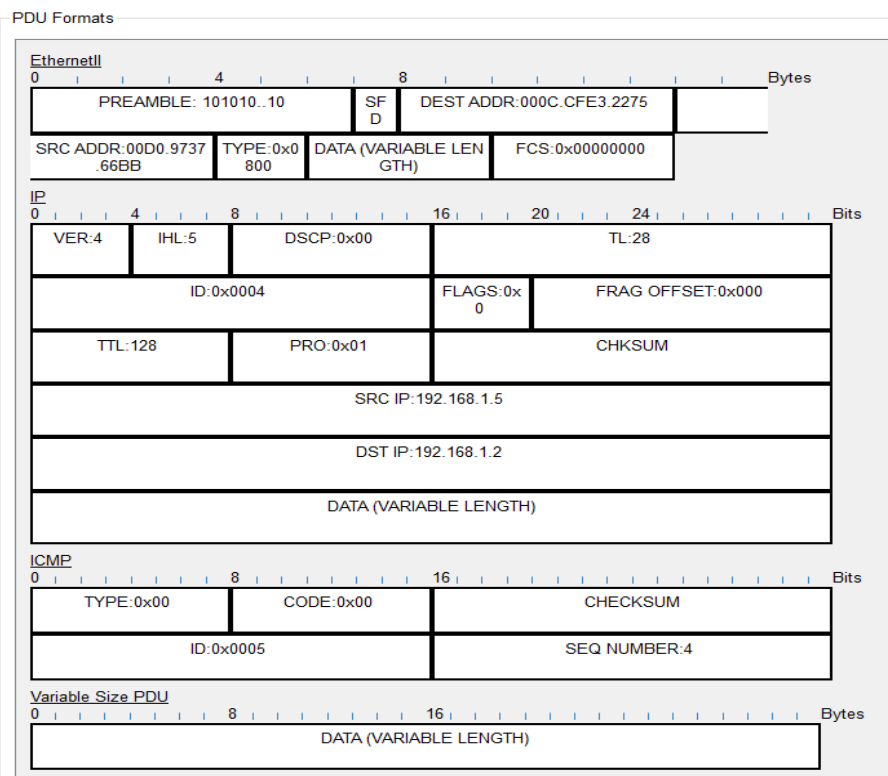


Figure 5.2 Tree topology