

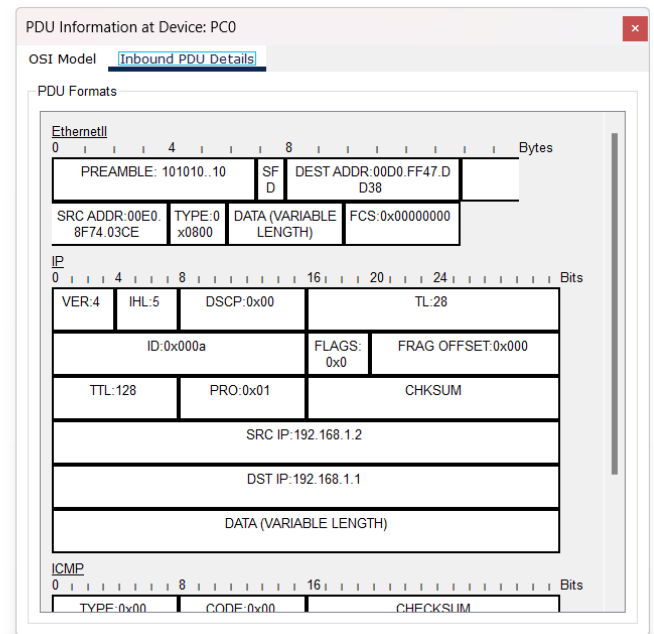
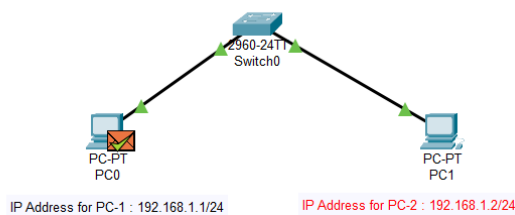
Date: 08 / 07 / 2024

Lab Practical #04:

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

Practical Assignment #04:

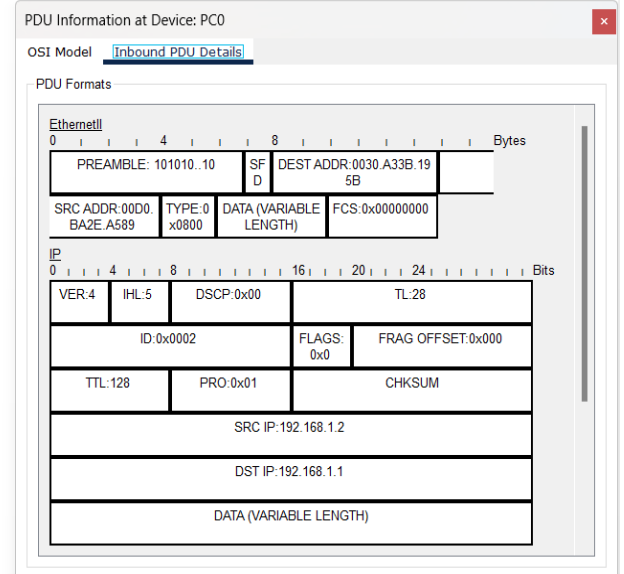
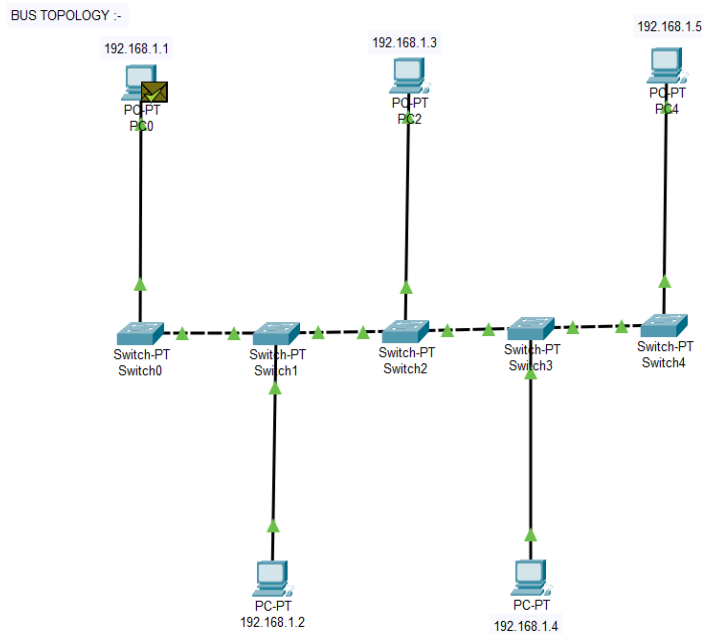
1. Create a simple network with switch and two or more pc. Also check connectivity between them using ping command or PDU utility.



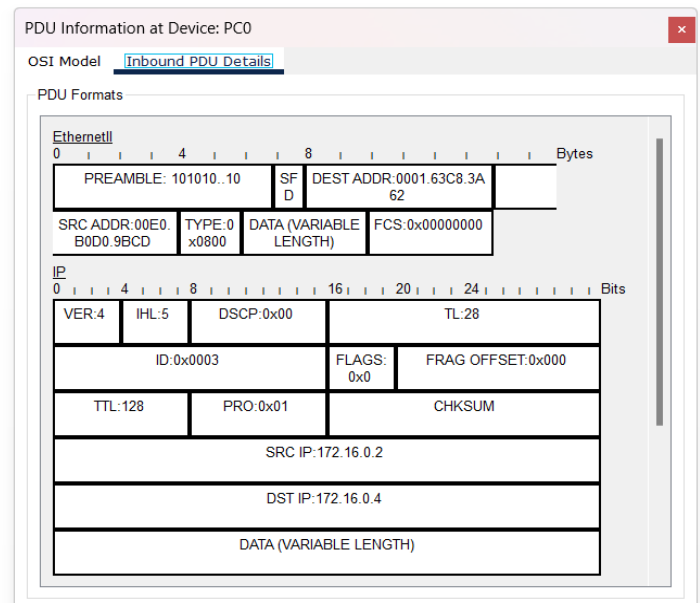
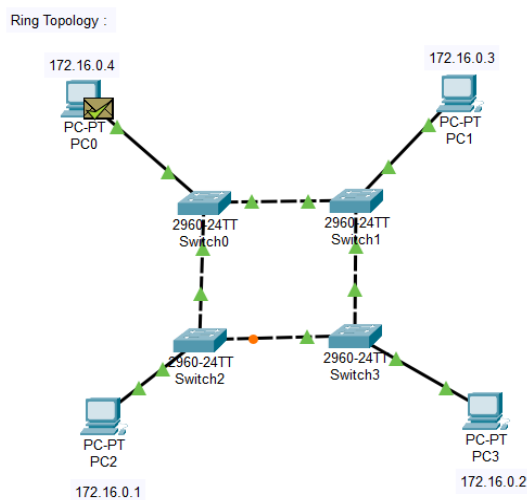
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2. Implement different topologies in packet tracer.

a. Bus

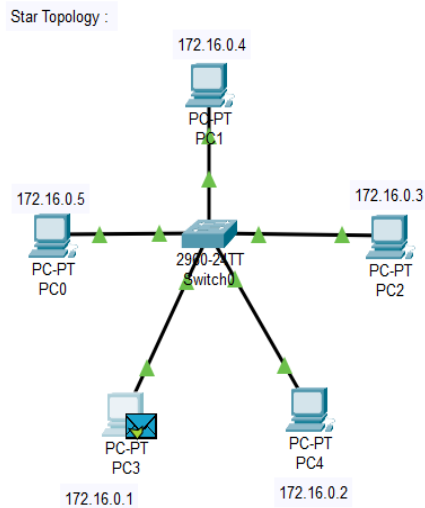


b. Ring



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c. Star



PDU Information at Device: PC3

OSI Model [Inbound PDU Details](#)

PDU Formats

EthernetII

048Bytes

PREAMBLE: 101010..10

SF D

DEST ADDR: 00E0.B094.C93B

SRC ADDR: 0000.0C66.0B3B

TYPE: 0x0800

DATA (VARIABLE LENGTH)

FCS: 0x00000000

IP

048162024Bits

VER: 4

IHL: 5

DSCP: 0x00

TL: 28

ID: 0x0001

FLAGS: 0x0

FRAG OFFSET: 0x000

TTL: 128

PRO: 0x01

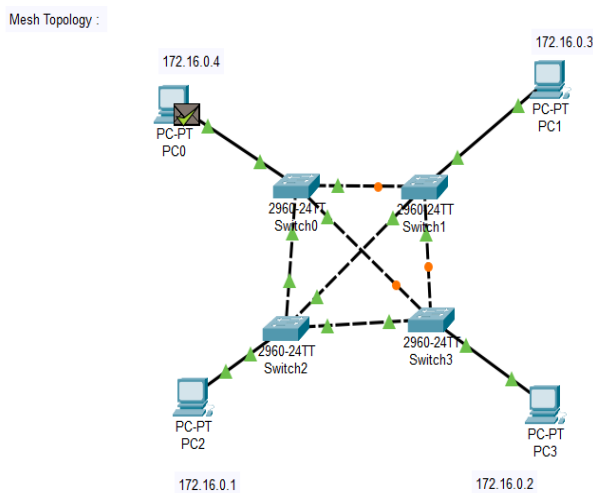
CHKSUM

SRC IP: 172.16.0.3

DST IP: 172.16.0.1

DATA (VARIABLE LENGTH)

d. Mesh



PDU Information at Device: PC0

OSI Model [Inbound PDU Details](#)

PDU Formats

EthernetII

048

Bytes

PREAMBLE: 101010..10

SF D

DEST ADDR: 0005.5E28.0A DB

SRC ADDR: 0006.2A29.E295

TYPE: 0x0800

DATA (VARIABLE LENGTH)

FCS: 0x00000000

IP

048162024

Bits

VER: 4

IHL: 5

DSCP: 0x00

TL: 28

ID: 0x0005

FLAGS: 0x0

FRAG OFFSET: 0x000

TTL: 128

PRO: 0x01

CHKSUM

SRC IP: 172.16.0.2

DST IP: 172.16.0.4

DATA (VARIABLE LENGTH)

ICMP

0816

Bits

TYPE: 0x00

CODE: 0x00

CHECKSUM

Date: 08 / 07 / 2024

e. Tree

