

Computer Networks Lab

WEEK-2

NAME: D.L.RAMESHWAR

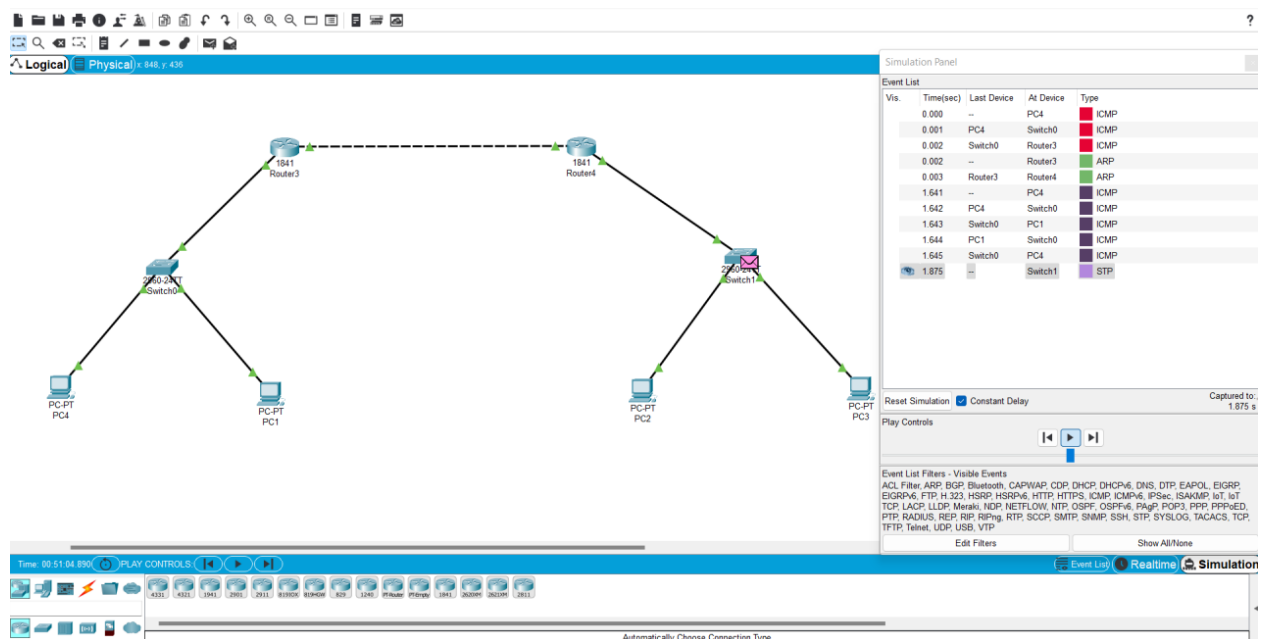
SRN:PES1UG21CS164

R.NO:61

JAN 2023

Task 1:

Network Topology:



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC2	PC4	ICMP		0.000	N	0	(edit)	(delete)

PDU Information at Device: PC4

OSI Model

Inbound PDU Details

Outbound PDU Details

At Device: PC4
Source: PC2
Destination: PC4

In Layers
Layer7
Layer6
Layer5
Layer4
Layer 3: IP Header Src. IP: 10.0.0.1, Dest. IP: 30.0.0.2 ICMP Message Type: 8
Layer 2: Ethernet II Header 0000.0CED.2C02 >> 000B.BE89.4452
Layer 1: Port FastEthernet0

Out Layers
Layer7
Layer6
Layer5
Layer4
Layer 3: IP Header Src. IP: 30.0.0.2, Dest. IP: 10.0.0.1 ICMP Message Type: 0
Layer 2: Ethernet II Header 000B.BE89.4452 >> 0000.0CED.2C02
Layer 1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.

Challenge Me
<< Previous Layer
Next Layer >>

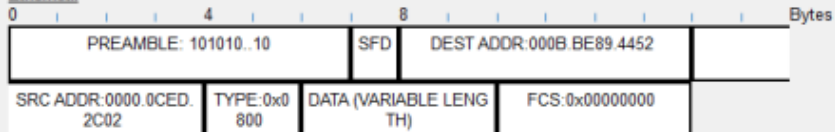
i)Sending PDU from PC0 to PC1 (30.0.0.1 to 10.0.0.2)

PDU Information at Device: PC4

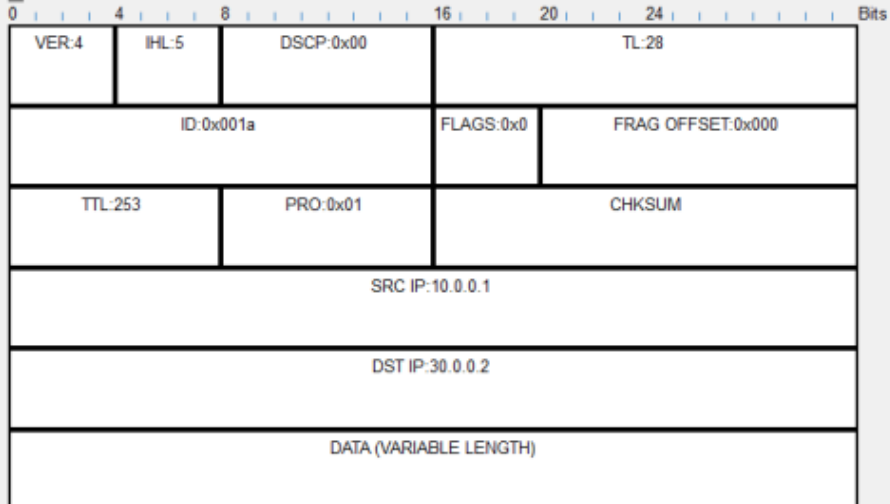
OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

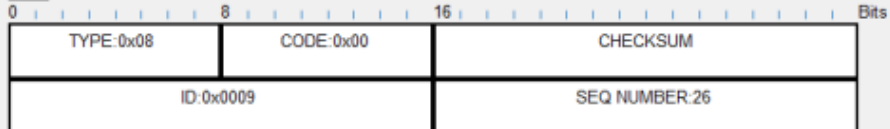
EthernetII



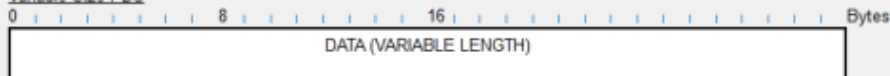
IP



ICMP



Variable Size PDU

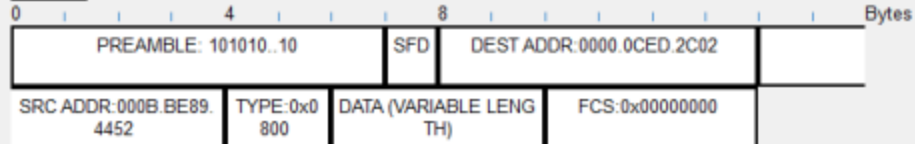


PDU Information at Device: PC4

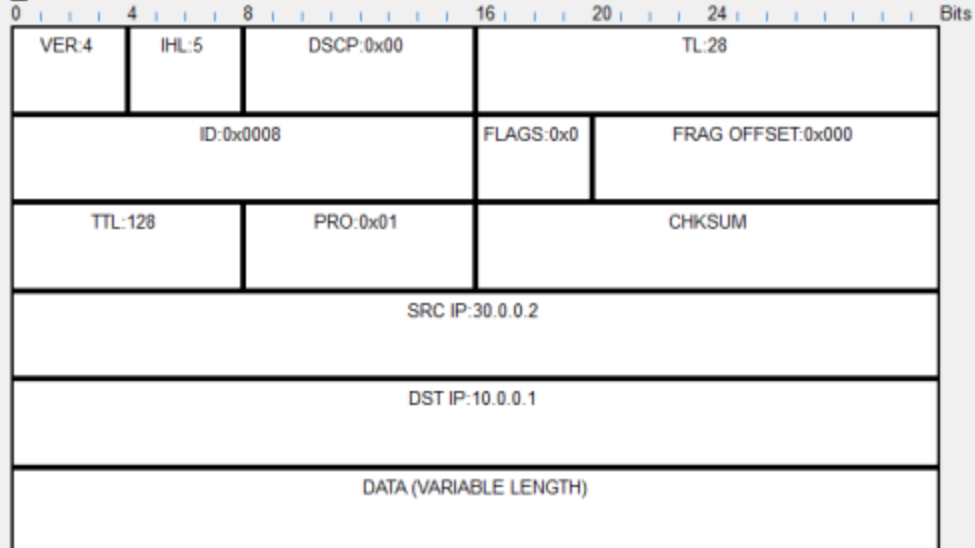
OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

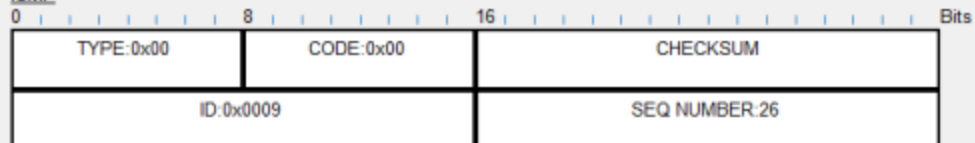
EthernetII



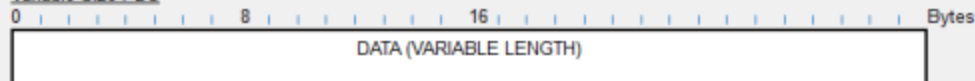
IP



ICMP

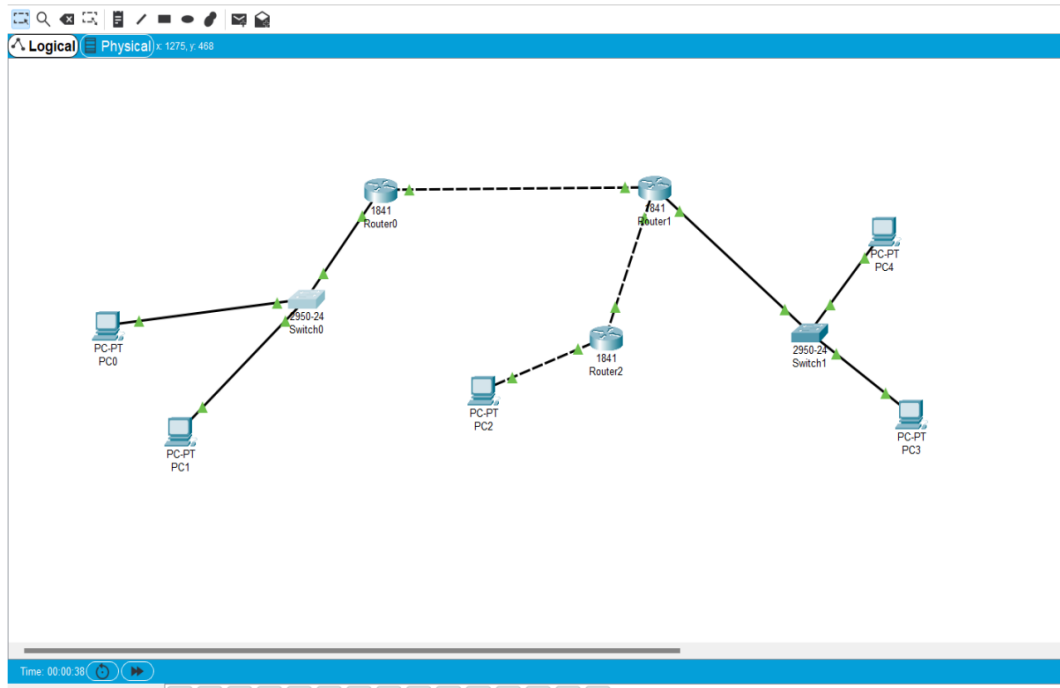


Variable Size PDU



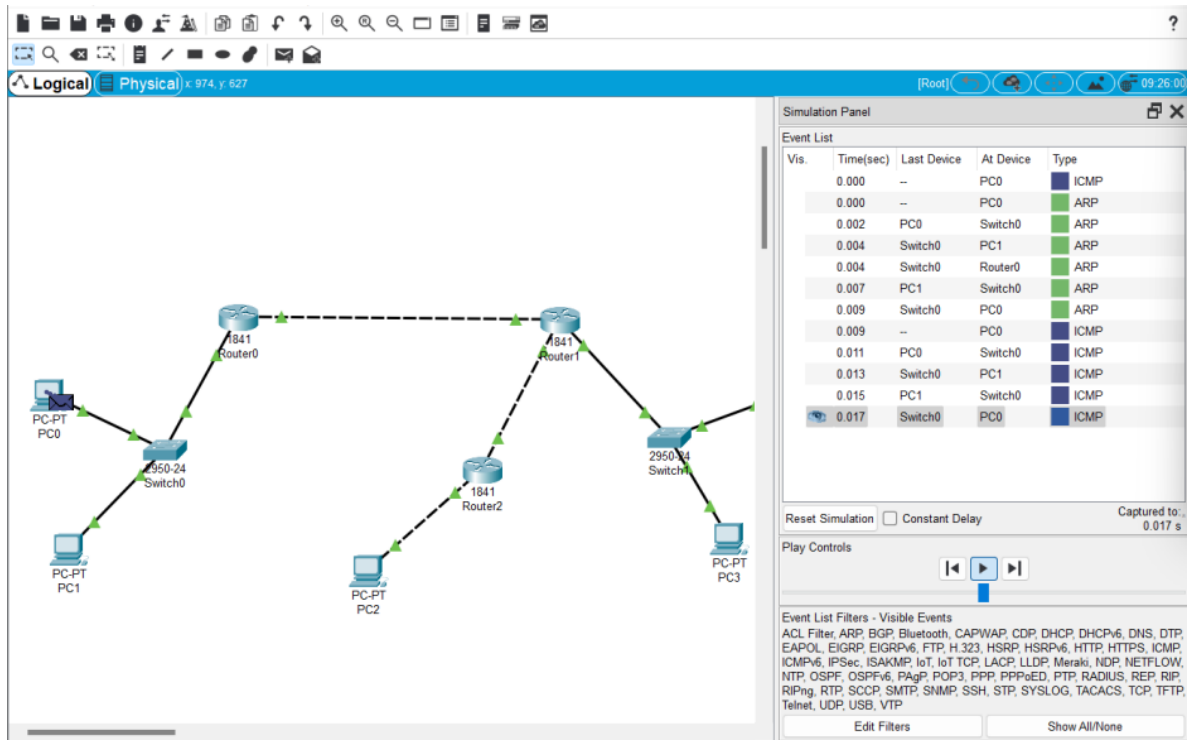
Task 2:

Network Topology:



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC1	PC0	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC1	PC2	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC1	PC3	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC1	PC4	ICMP		0.000	N	3	(edit)	(delete)

i) Sending PDU from PC0 to PC1 (1.1.1.2 to 1.1.1.3)



ii) Sending PDU from PC1 to PC2 (1.1.1.3 to 6.6.6.2)

PDU Information at Device: PC2

OSI Model

Inbound PDU Details

Outbound PDU Details

At Device: PC2
Source: PC1
Destination: PC2

In Layers

Layer7

Layer6

Layer5

Layer4

Layer 3: IP Header Src. IP: 1.1.1.3, Dest. IP: 6.6.6.2 ICMP Message Type: 8

Layer 2: Ethernet II Header
00D0.BCE6.3301 >> 0090.2BA2.558C

Layer 1: Port FastEthernet0

Out Layers

Layer7

Layer6

Layer5

Layer4

Layer 3: IP Header Src. IP: 6.6.6.2, Dest. IP: 1.1.1.3 ICMP Message Type: 0

Layer 2: Ethernet II Header
0090.2BA2.558C >> 00D0.BCE6.3301

Layer 1: Port(s): FastEthernet0

1. FastEthernet0 receives the frame.

Challenge Me

<< Previous Layer

Next Layer >>

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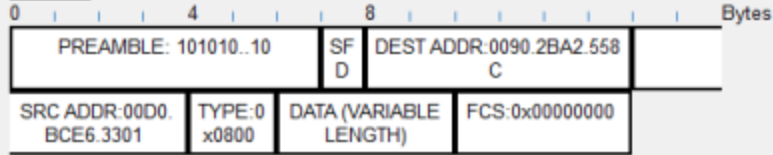
PDU Information at Device: PC2



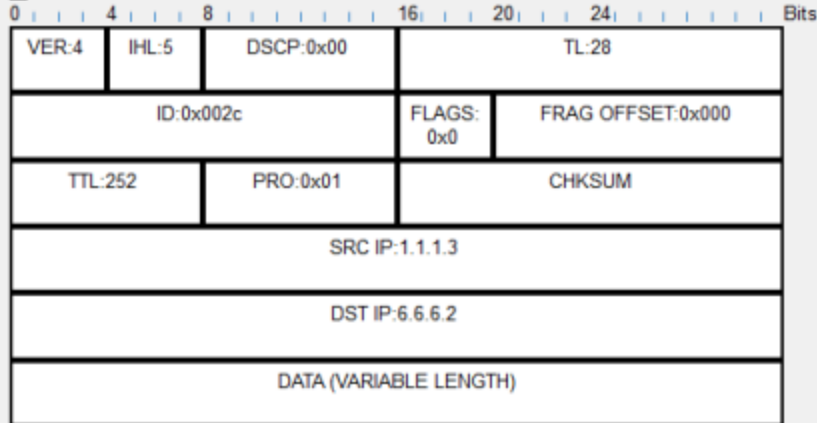
OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

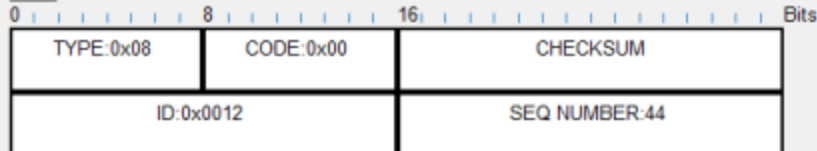
EthernetII



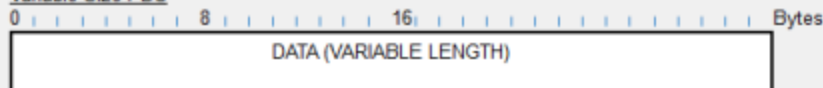
IP



ICMP



Variable Size PDU

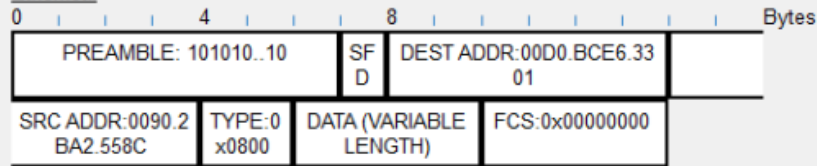


PDU Information at Device: PC2

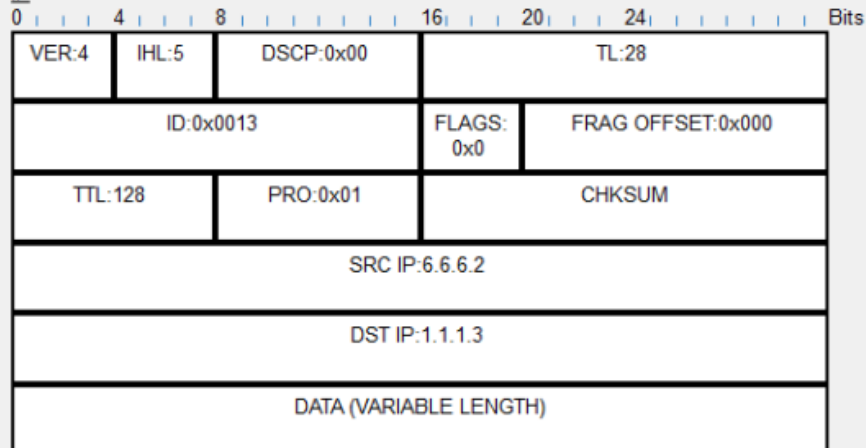
OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

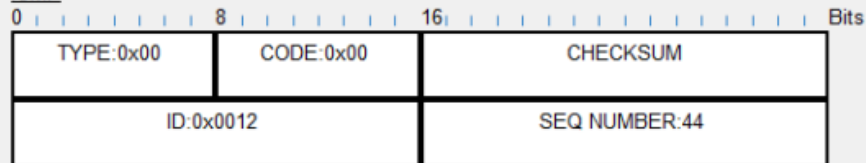
EthernetII



IP



ICMP



Variable Size PDU

