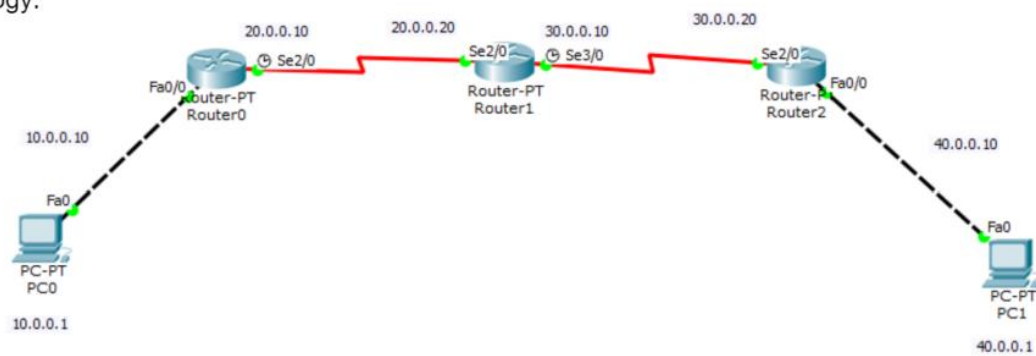


Experiment - 10

Aim: Demonstrate the TTL/ Life of a Packet

Topology:



PDU Formats

HDLC

0	8	16	32	32+x	48+x	56+x
FLG: 0111 1110	ADR: 0x8f	CONTROL: 0x0	DATA: (VARIABLE LENGTH)	FCS: 0x0	FLG: 0111 1110	

IP

0	4	8	16	19	31 Bits
4	IHL	DSCP: 0x0	TL: 28		
ID: 0x1			0x0	0x0	
TTL: 126		PRO: 0x1	CHKSUM		
SRC IP: 40.0.0.1					
DST IP: 10.0.0.1					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

ICMP

0	8	16	31 Bits
TYPE: 0x0	CODE: 0x0	CHECKSUM	
ID: 0x3		SEQ NUMBER: 2	

PDU Formats

Ethernet II

0	4	8	14	19	Bytes
PREAMBLE: 101010...1011		DEST MAC: 0060.3E33.E1A4		SRC MAC: 0050.0FDC.B57A	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

IP

0	4	8	16	19	31	Bits
4	IHL	DSCP: 0x0	TL: 28			
ID: 0x1			0x0	0x0		
TTL: 125		PRO: 0x1	CHKSUM			
SRC IP: 40.0.0.1						
DST IP: 10.0.0.1						
OPT: 0x0				0x0		
DATA (VARIABLE LENGTH)						

ICMP

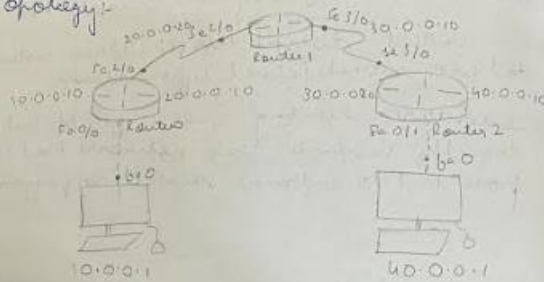
0	8	16	31	Bits
TYPE: 0x0		CODE: 0x0		CHECKSUM
ID: 0x3		SEQ NUMBER: 2		

10/9/23

Lab-10

Aim:- Demonstrate the TTL life of a packet

Topology:-



Procedure:-

- Create a topology as shown above with 2 PCs and 3 routers.
- Set the IP address and gateway for both PCs.
- Configure the routers either static/default routing way.
- In simulation mode send a simple PDU from one PC to another.
- Use capture button to capture every transfer.
- Click on the PDU during every transfer to see the inbound & outbound PDU details.

I 1

Observation:-

- 3/8/2023