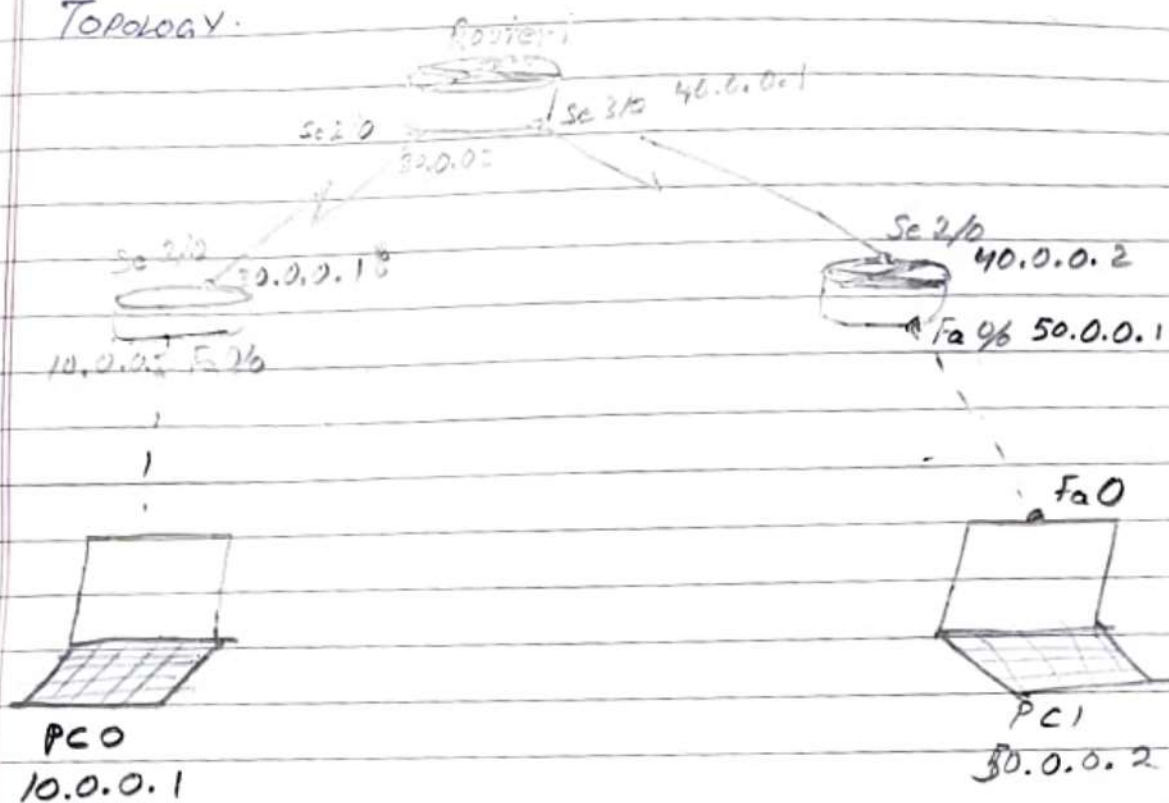


Aim: Demonstrate the TTL/Life of a Packet.

TOPOLOGY:



PROCEDURE:

- ① Create a topology as shown above with 2 PCs & 3 routers.
- ② Config the IP address of PC0 & PC1 as 10.0.0.1 & 50.0.0.2 resp.
- ③ Config. the IP address of routers using following cmd:
 Router #config t
 Router(Config)#interface fa0/0
 Router(Config)#ip address 10.0.0.2 255.0.0.0
 Router# exit.
- ④ Configure the routers using default/static routing.
- ⑤ In simulation mode, send a simple PDU from 1 PC to another.
- ⑥ Use capture button to capture every transfer.
- ⑦ Click on PDU during every transfer to see the

inbound & outbound PDU details.

OUTPUT:-

IP:

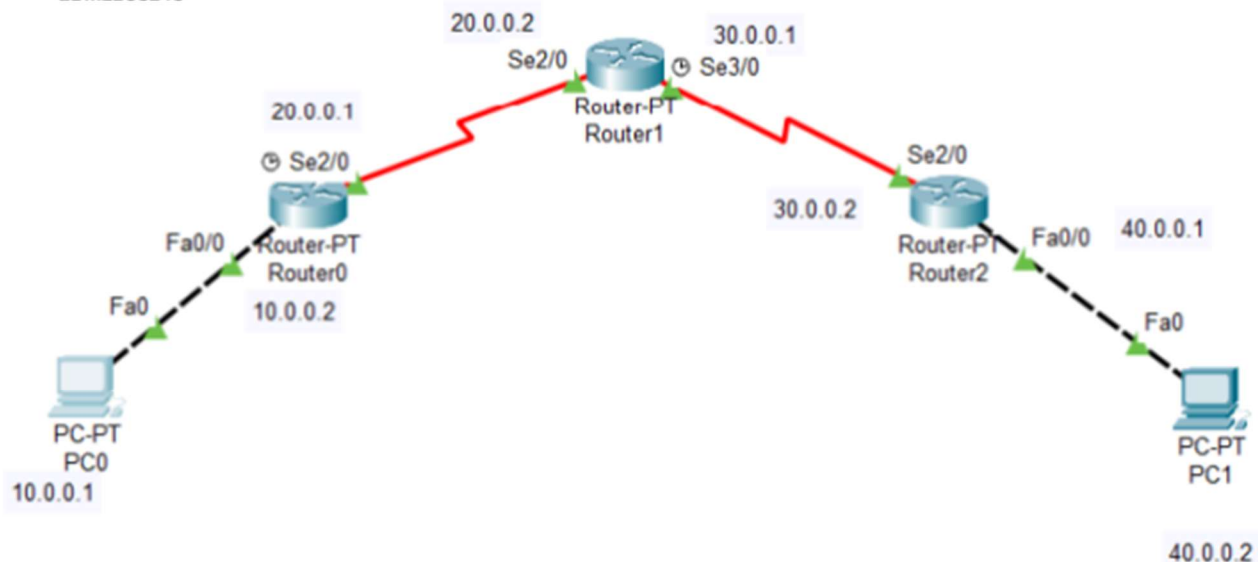
	0	4	8	16	19	31
1)	04	IHL	DSCP		TL: 28	
	IP: 0x6			0x	0x0	
	TTL: 255	PRO: 0x1			CHKSUM	
	SRC IP: 10.0.0.1					
	DST IP: 50.0.0.1					
	OPT: 0x0				0x0	
	DATA (Variable length)					

	0	4	8	16	31
	4	IHL	DSCP		TL: 28
	IP: 0x6		0x		0x0
	TTL: 254	PRO: 0x1			CHKSUM
	SRC IP: 10.0.0.1				
	DST IP: 50.0.0.1				
	OPT: 0x0				0x0
	DATA (Variable length)				

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LS 1/9/23

Observation ?



PDU Information at Device: Router2

OSI Model

[Inbound PDU Details](#)[Outbound PDU Details](#)

PDU Formats

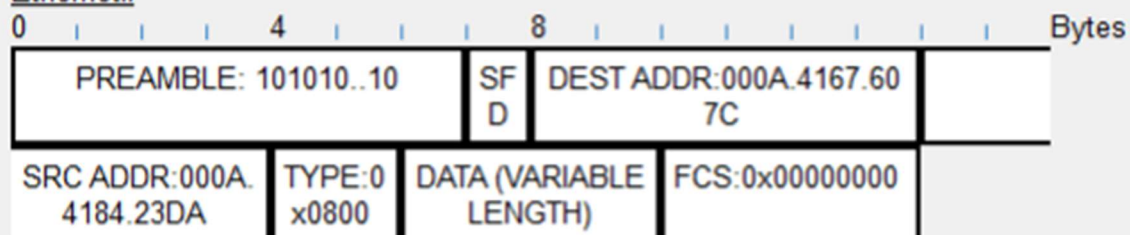
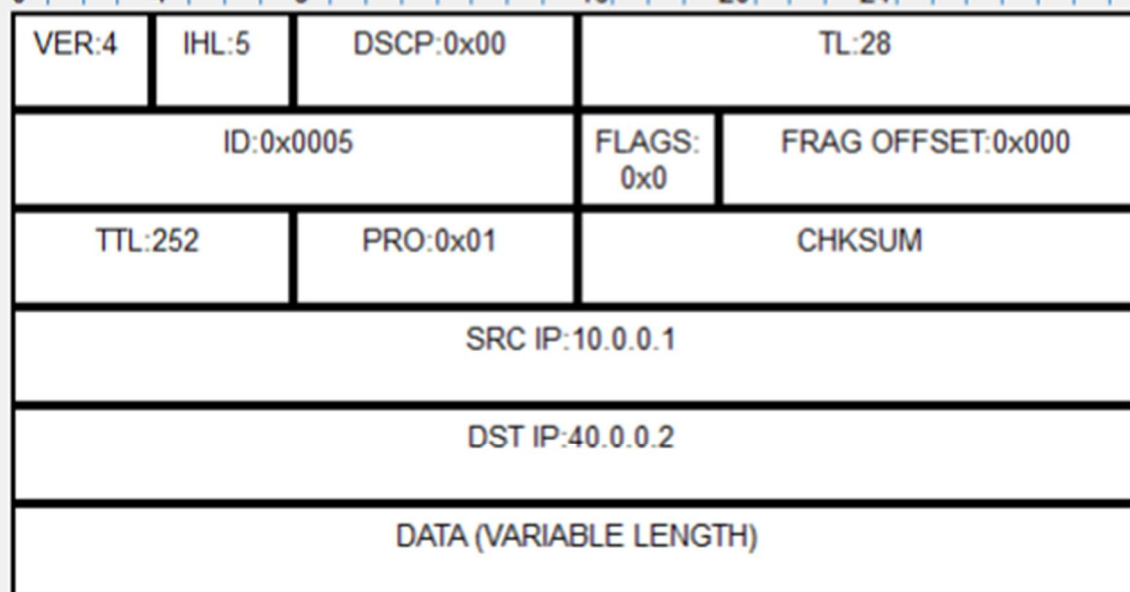
PPP

0	8	16	24	Bits
FLG: 0x7E	ADR: 0xff	CONTROL: 0x03	PROTOCOL: 0x0021	
DATA (VARIABLE LENGTH)				
FCS		FLG: 0x7E		

IP

0	4	8	16	20	24	Bits
VER:4	IHL:5	DSCP:0x00	TL:28			
ID:0x0005			FLAGS: 0x0	FRAG OFFSET:0x000		
TTL:253		PRO:0x01	CHKSUM			
SRC IP:10.0.0.1						
DST IP:40.0.0.2						
DATA (VARIABLE LENGTH)						

PDU Formats

EthernetIIIPICMP