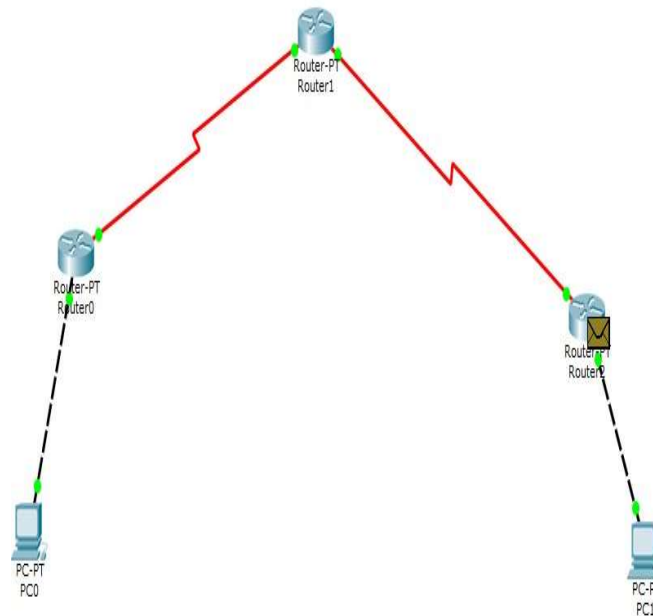


# LAB PROGRAM-09

USN – 1BM21CS271

## Demonstrate the TTL/Life of a Packet



Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC1	ICMP	
	0.001	PC1	Router2	ICMP	
	0.002	Router2	PC1	ICMP	
	0.785	--	Router0	CDP	
	0.785	--	Router0	CDP	
	0.786	Router0	PC0	CDP	
	0.786	Router0	Router1	CDP	
	57.186	--	Router1	CDP	
	57.186	--	Router1	CDP	

Reset Simulation ☒ Constant Delay Cap

Play Controls

Back Auto Capture / Play Capture / F

Event List Filters - Visible Events

ACL Filter, ARP, BGP, CDP, DHCP, DHCPv6, DNS, FTP, FTPv6, HSRP, HSRPv6, HT, NTP, OSPF, OSPFv6, SSH, STP, SYSLOG

Edi

# PDU Information at Device: Router0

OSI Model    Inbound PDU Details

## PDU Formats

### HDLC

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

### IP

0	4	8	16	19	31 Bits
4	IHL	DSCP: 0x0	TL: 28		
ID: 0x2	0x0	0x0			
TTL: 254	PRO: 0x1	CHKSUM			
SRC IP: 30.0.0.1					
DST IP: 20.0.0.10					
OPT: 0x0	0x0				
DATA (VARIABLE LENGTH)					

### ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x2	SEQ NUMBER: 1		



# PDU Information at Device: Router2

OSI Model   Inbound PDU Details   Outbound PDU Details

## PDU Formats

### Ethernet II

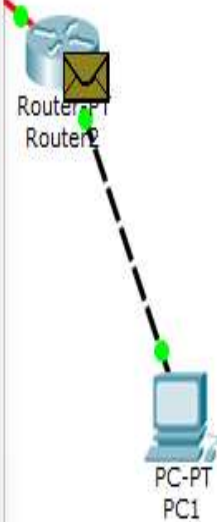
0	4	8	14	19	Bytes
PREAMBLE: 101010...1011		DEST MAC: 0060.4755.A5E5		SRC MAC: 0002.17EE.D7DA	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

### IP

0	4	8	16	19	31	Bits
4	IHL	DSCP: 0x0	TL: 28			
ID: 0x4			0x0	0x0		
TTL: 255		PRO: 0x1	CHKSUM			
SRC IP: 20.0.0.10						
DST IP: 20.0.0.1						
OPT: 0x0				0x0		
DATA (VARIABLE LENGTH)						

### ICMP

0	8	16	31	Bits
TYPE: 0x0		CODE: 0x0	CHECKSUM	
ID: 0x5		SEQ NUMBER: 4		



# PDU Information at Device: Router2

OSI Model    Inbound PDU Details    Outbound PDU Details

## PDU Formats

### Ethernet II

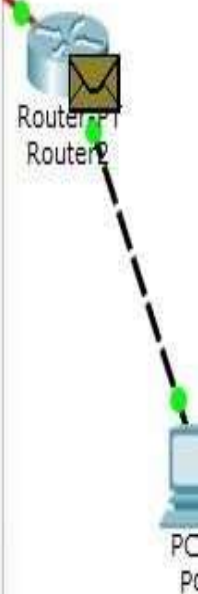
0	4	8	14	19	Bytes
PREAMBLE: 101010...1011		DEST MAC: 0002.17EE.D7DA		SRC MAC: 0060.4755.A5E5	
TYPE: 0x800		DATA (VARIABLE LENGTH)		FCS: 0x0	

### IP

0	4	8	16	19	31	Bits
4	IHL	DSCP: 0x0	TL: 28			
ID: 0x4			0x0	0x0		
TTL: 255	PRO: 0x1		CHKSUM			
SRC IP: 20.0.0.1						
DST IP: 20.0.0.10						
OPT: 0x0				0x0		
DATA (VARIABLE LENGTH)						

### ICMP

0	8	16	31	Bits
TYPE: 0x8		CODE: 0x0		CHECKSUM
ID: 0x5		SEQ NUMBER: 4		



# PDU Information at Device: Router0

OSI Model

Inbound PDU Details

Outbound PDU Details

## 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: 255	PRO: 0x1	CHKSUM			
SRC IP: 30.0.0.1					
DST IP: 30.0.0.10					
OPT: 0x0	0x0				
DATA (VARIABLE LENGTH)					

### ICMP

0	8	16	31 Bits
TYPE: 0x0	CODE: 0x0	CHECKSUM	
ID: 0x2	SEQ NUMBER: 1		

