Program-7

Demonstrate the TTL/ Life of a Packet

Topology, Procedure and Observation:

Screenshots:

PDU Information at Device: Router0

| OSI Model | Inbound PDU Details | Outbound PDU Details |

At Device: Router0
Source: PC0
Destination: PC3

In Layers

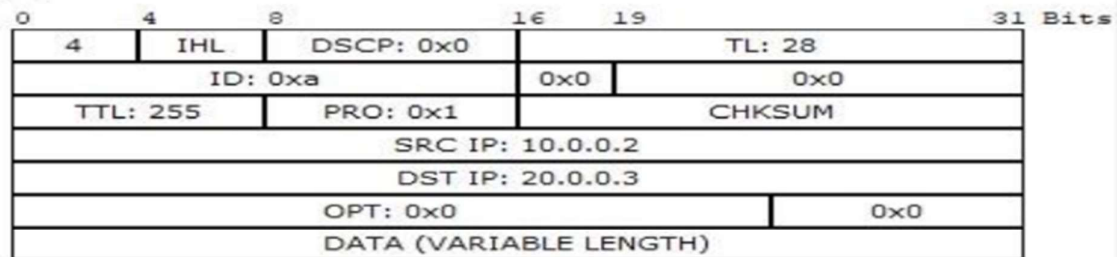| Layer7 |
| Layer6 |
| Layer5 |
| Layer4 |
| Layer 3: IP Header Src. IP: 10.0.0.2, Dest. IP: 20.0.0.3 ICMP Message Type: 8 |
| Layer 2: Ethernet II Header 000A.41E3.E33A >> 0010.11A0.4697 |
| Layer 1: Port FastEthernet0/0 |

Out Layers

| Layer7 |
| Layer6 |
| Layer5 |
| Layer4 |
| Layer 3: IP Header Src. IP: 10.0.0.2, Dest. IP: 20.0.0.3 ICMP Message Type: 8 |
| Layer 2: HDLC Frame HDLC |
| Layer 1: Port(s): Serial2/0 |

1. FastEthernet0/0 receives the frame.

Challenge Me   << Previous Layer   Next Layer >>

PDU Information at Device: Router0

OSI Model | **Inbound PDU Details** | **Outbound PDU Details**

PDU Formats

Ethernet II

0	4	8	14	19	Byte

PREAMBLE: 101010...1011	DEST MAC: 0010.11A0.4697	SRC MAC: 000A.41E3.E33A

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

0	4	8	16	19	31 Bits

4	IHL	DSCP: 0x0	TL: 28		
ID: 0xa			0x0	0x0	
TTL: 255		PRO: 0x1	CHKSUM		
SRC IP: 10.0.0.2					
DST IP: 20.0.0.3					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

ICMP

0	8	16	31	Bits

TYPE: 0x8	CODE: 0x0	CHECKSUM	