

Program 7

Aim: Demonstrate the TTL/ Life of a Packet .

Topology , Procedure and Observation:

Aim: Demonstrate TTL / Life of a packet

TTL means time to live for a packet
it tells that how & for how many
time units the packet will be there
in the network

Procedure

- send a Simple PDU from PC1
to PC4
- Auto capture the event list then
observe the TTL of each router in
PDU Information

Observation

When the packet passes Router 0
~~before~~ ^{at} Router 0

inbound TTL = 255ms

outbound TTL = 255ms

When the packet passes from Router 0 to Router 1

inbound TTL = 254ms

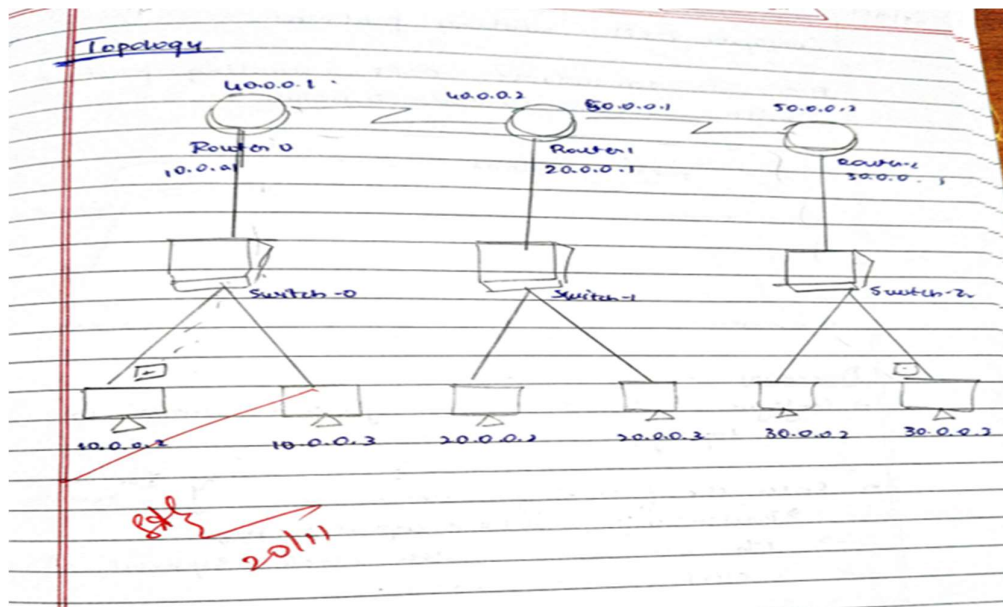
outbound TTL = 253ms

When the packet passes across Router 1

inbound TTL = 253ms

inbound TTL = 252ms

Hence we can conclude there will be
decrement in TTL for 1ms when it
passes across Router



Screen Shots:

PDU Information at Device: Router0

OSI Model Inbound PDU Details Outbound PDU Details

At Device: Router0
Source: PC0
Destination: PC3

In Layers	Out Layers
Layer7	Layer7
Layer6	Layer6
Layer5	Layer5
Layer4	Layer4
Layer 3: IP Header Src. IP: 10.0.0.2, Dest. IP: 20.0.0.3 ICMP Message Type: 8	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 2: HDLC Frame HDLC
Layer 1: Port FastEthernet0/0	Layer 1: Port(s): Serial2/0

1. FastEthernet0/0 receives the frame.

Challenge Me << Previous Layer Next Layer >>

