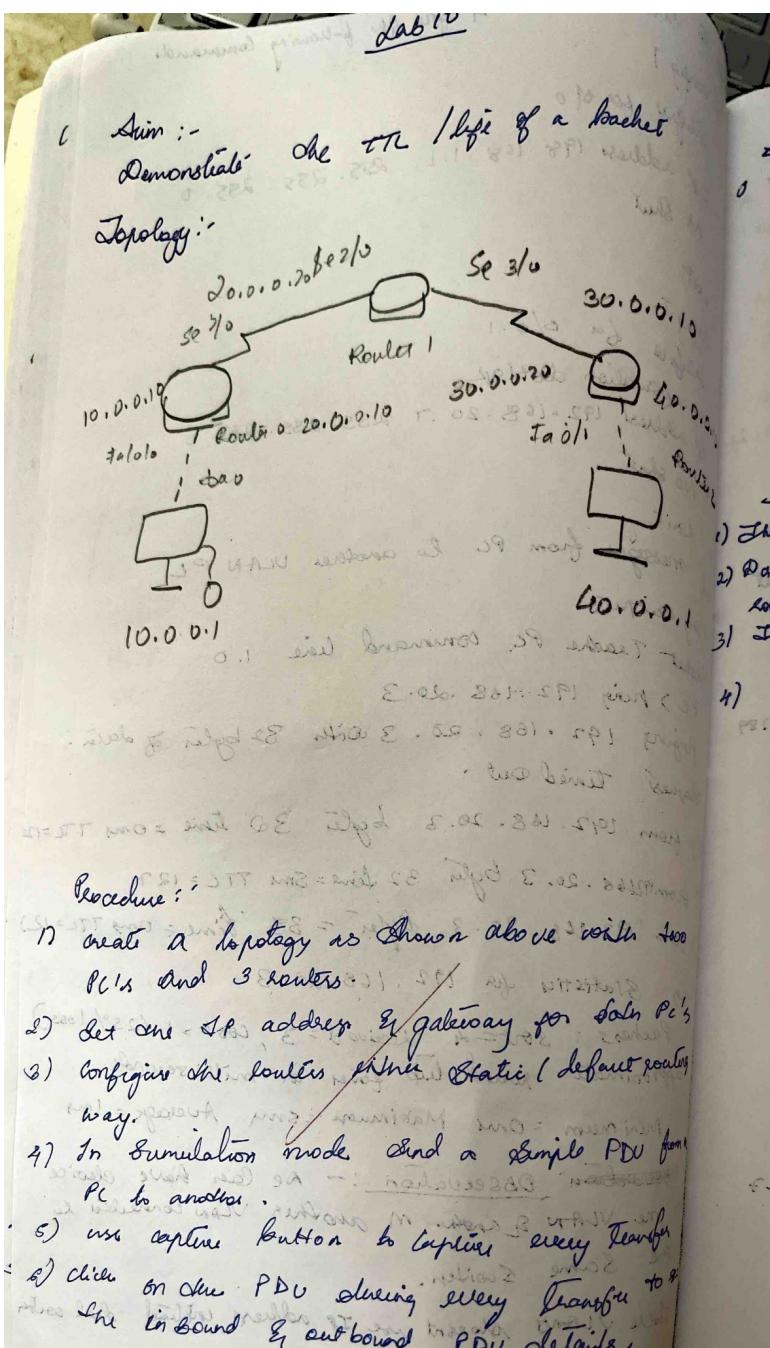


WEEK 10

Demonstrate the TTL/ Life of a Packet.

OBSERVATION:



Output :-
 IP / 14C / DSIP / 0X / TTL : 28
 ID : 0x6
 TTL : 255 PRO : 0x1 Checksum
 SRC IP : 10.0.0.1
 DST IP : 40.0.0.1
 OPT 0X0 0X0
 DATA (VARABLE LENGTH)

Observation

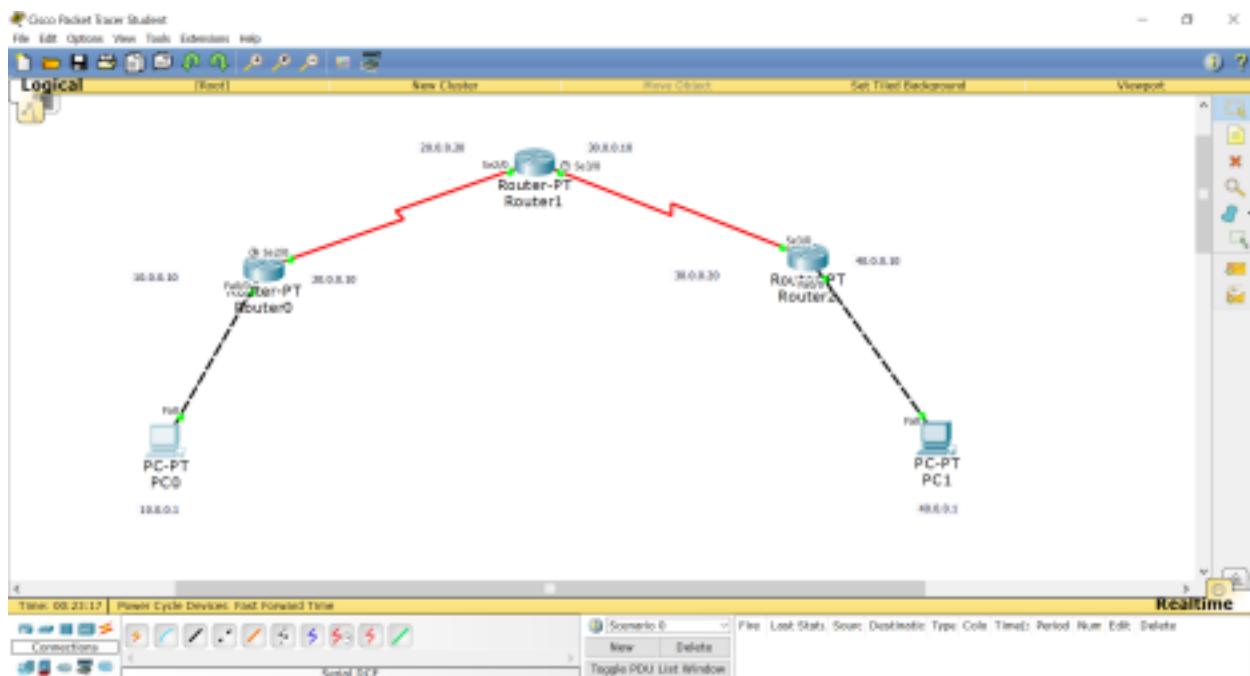
- 1) In n of hops the packet travel before being discarded as TTL
- 2) Datagram TTL field is set by the sender & reduced by each router along the path to its destination.
- 3) If router reduces TTL value by one while forwarding the packets.
- 4) When the TTL value is 0, the router discards & sends an ICMP message.

Router reduction TTL & send ICMP
→ If packet TTL reaches 0 and still no router found then it discard the packet.

→ If the TTL value is 0 then the packet is discarded.

Each of the routers reduce the TTL value by 1.
→ If the TTL value is 0 then the packet is discarded.

TOPOLOGY:



OUTPUT:

