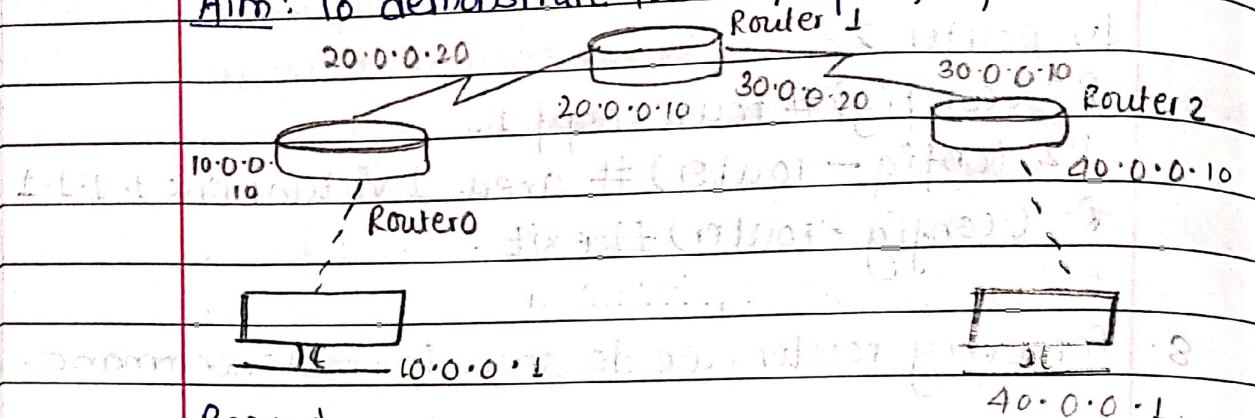


When the TTL value
sends an ICMP message.

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Demonstrate the TTL/life of a packet.

Aim: To demonstrate the TTL/life of a packet.



Procedure:

1. Create a topology as shown above with 2 PCs & 3 routers.
2. Set the IP address & gateway for all PCs.
3. Configure the routers either static/default routing way.
4. In simulation mode send a simple PDU from 1 to another PC.
5. Use capture button to capture every transfer.
6. Click on the PDU during every transfer to see the inbound & outbound PDU details.

Output

ZP	4	8	16	17	TTL: 28
4	TTL	DSCP	OX		OXO
0					

ID: 0x6

TTL: 255 PRO: 0x1 checksum

SRC IP: 10.0.0.1

DST IP: 40.0.0.1

OPT OXO

Data variable length) OXO

Observation

1. The no. of hops the packet travel before being discarded as TTL reaches zero.
2. Datagram TTL field is set by the sender & reduced by each router along the path to its destination.
3. The router reduces TTL value by some value forming the packets.

