Experiment 6 - Demonstrate the TTL or life of a packet
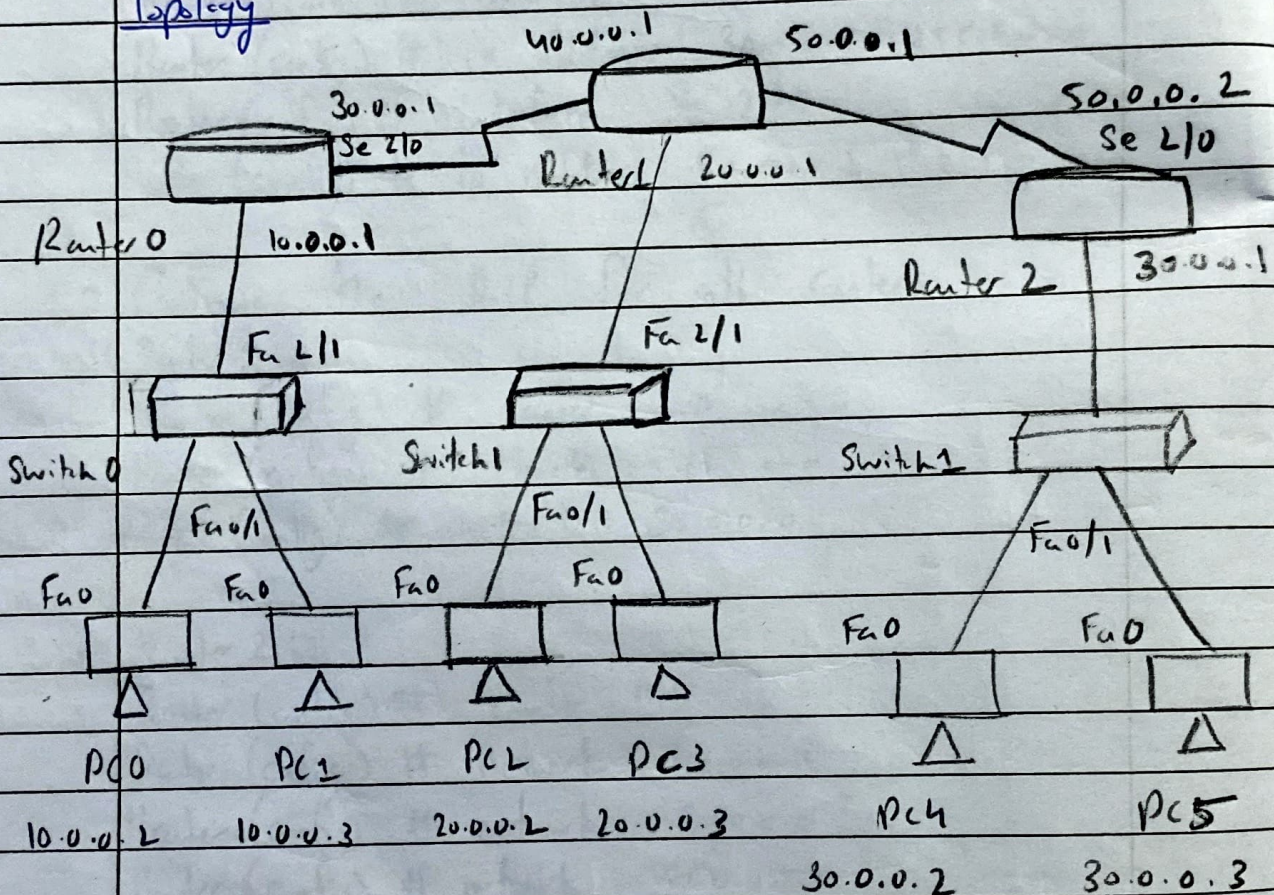
Aim - TTL of a packet has to be demonstrated with 3 routers, 3 switches and 6 Systems.
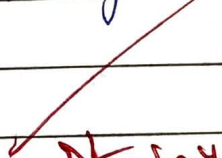
Topology

Procedure

- Open Cisco packet Manager and establish the topology as shown above.

- Select on the Simple PDU icon.
- Include the PC0 and PC4 as part of the communication that is to take place, then switch to simulation mode.

• Start the simulation by clicking on Auto Capture / Play

Observation

The TTL field in a packet decrements by 1 at each router hop to prevent inf. loops. If the TTL reaches 0, the router discards the packet and sends an ICMP 'Time Extended' message back to the sender.

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