Exercise 4.1: Create an intermittent network issue and prove what is broken

Use this **netem** command to introduce a network problem on the server (random packet drops).

```
# tc qdisc add dev lo root netem loss random 40
```

Note: for **CentOS6** use:

```
# tc qdisc add dev lo root netem corrupt 30%
```

Prove the problem is random packet drops.

Solution 4.1

1. Use the **ping** command to verify packets are dropping.

   ```
   $ ping localhost
   ```

   You should see dropped packets.

2. While the **ping** is running, use **tcpdump** on another terminal session to see the packets sent and received.

   ```
   # tcpdump -i lo  proto ICMP
   ```

   You should see all the requests being sent, but a smaller number of responses.

3. Clean up the **tc** command to avoid issues in future labs

   ```
   # tc qdisc del dev lo root
   ```