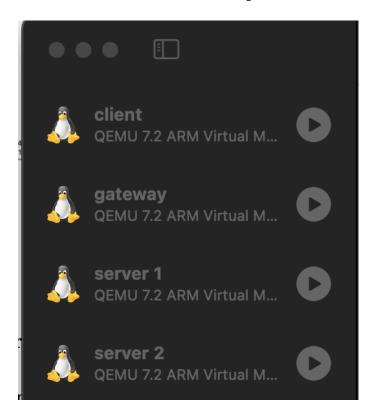
CN ASSIGNMENT 3 (IP TABLES)

Name: Uday Kumar Sangwan

Roll No.: 2022547

Question 1:

a) Setup 4 Vm's (1 Client; 1 Gateway; 2 Servers), as given in tutorials we configured the network settings.



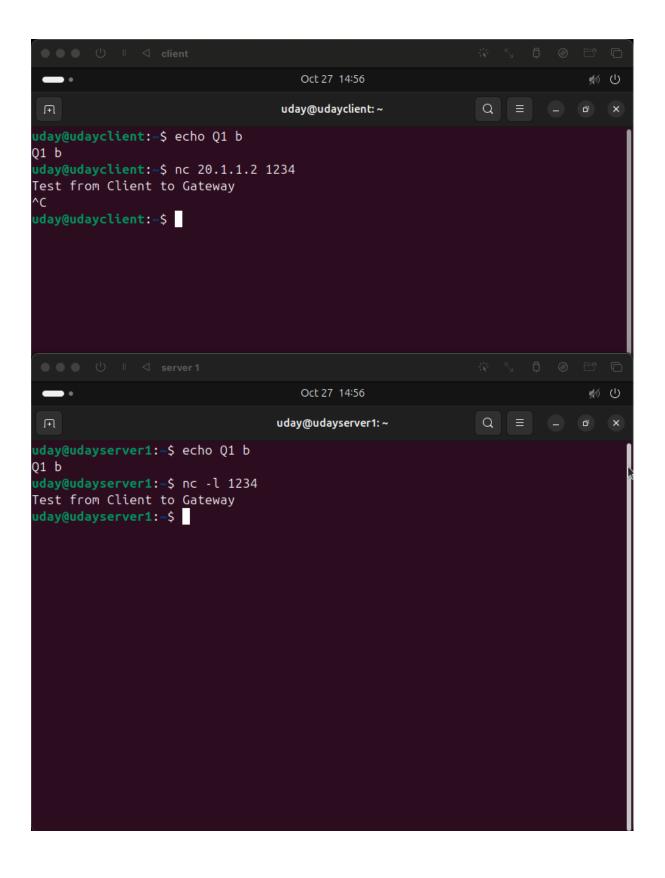
b)

```
Oct 27 14:56

uday@udaygateway:~

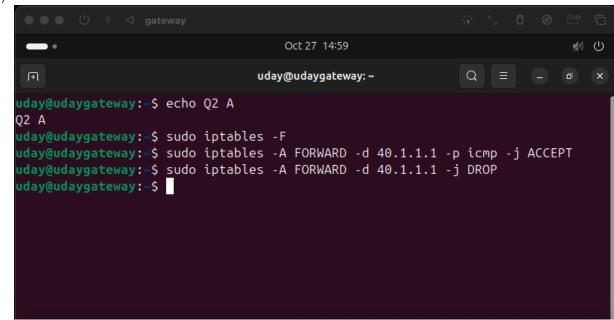
uday@udaygateway:~

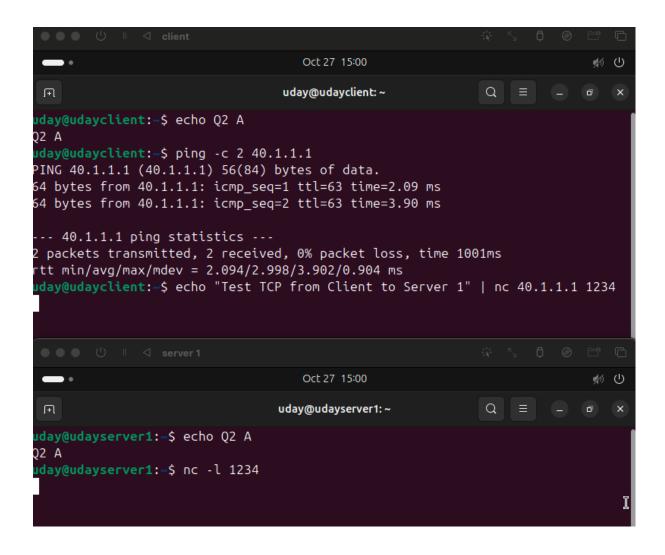
condition in the state of the
```

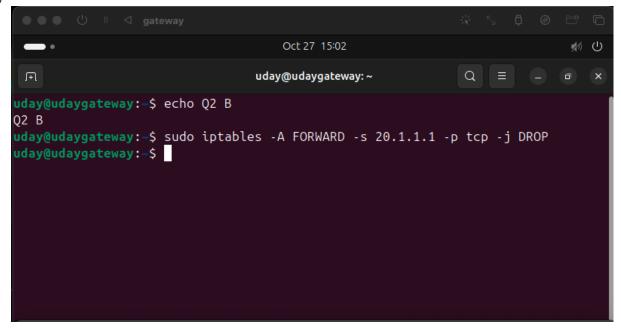


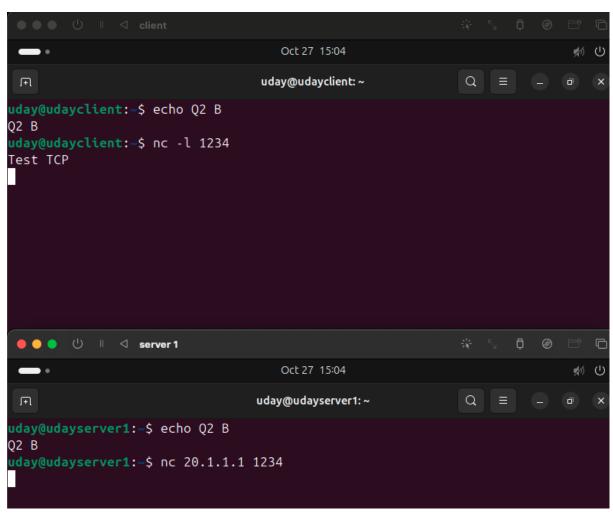
Question 2:

a)



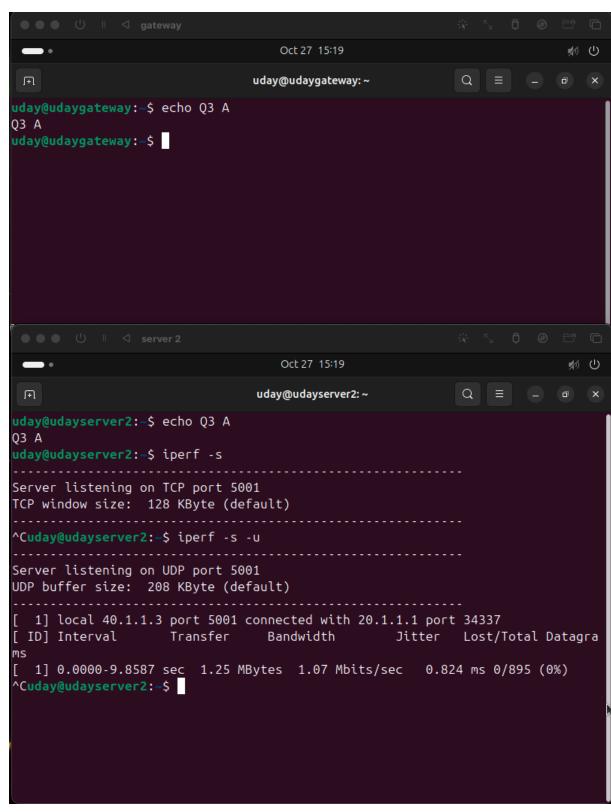


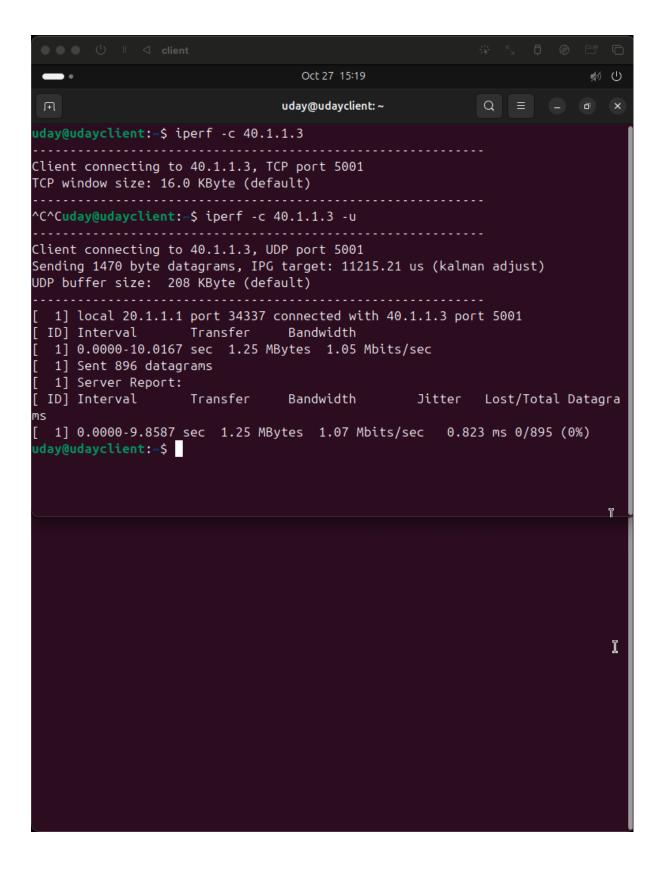


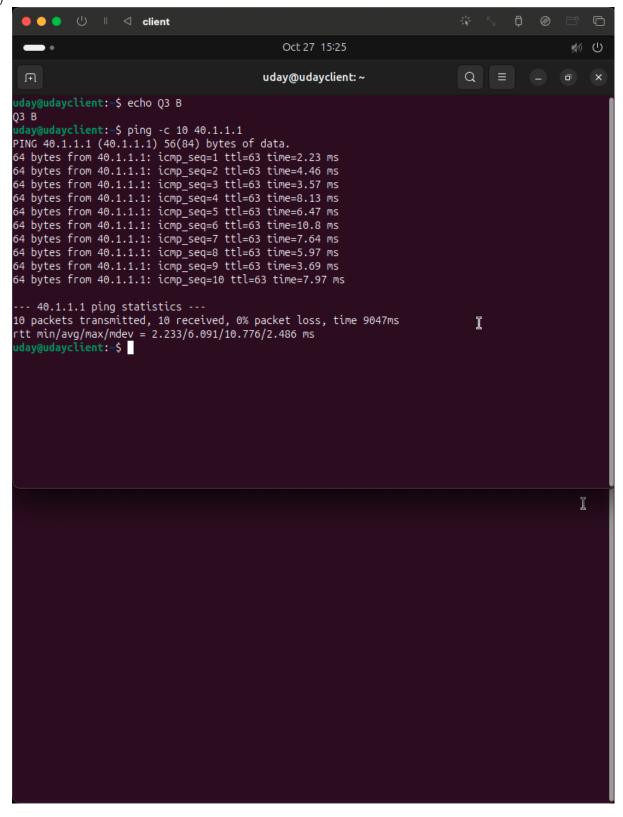


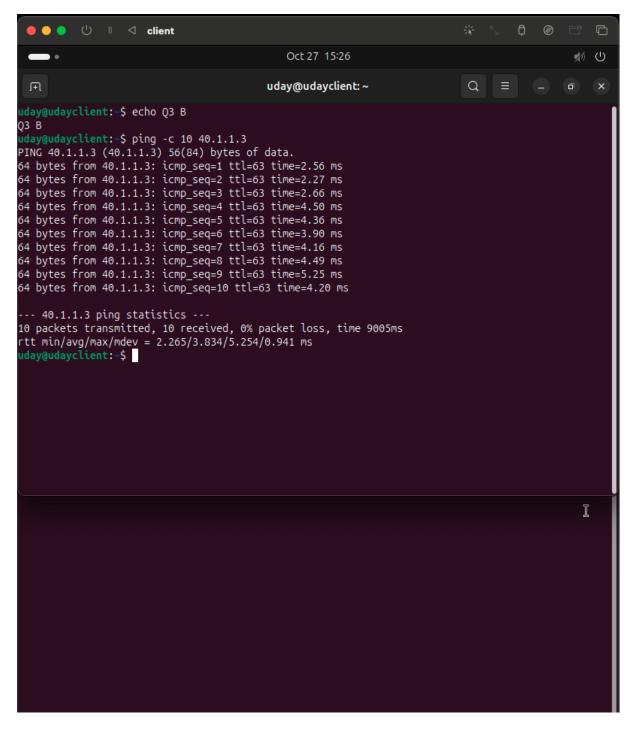
Question 3:

a)









The second servers RTT is lesser as there are no rules applied in the IP Table for server 2, and server 1 has rules which might be a reason for the more time.

Question 4:

Chain OUTPUT (policy ACCEPT)

day@udaygateway:~\$

prot opt source

prot opt source

all -- 20.1.1.1

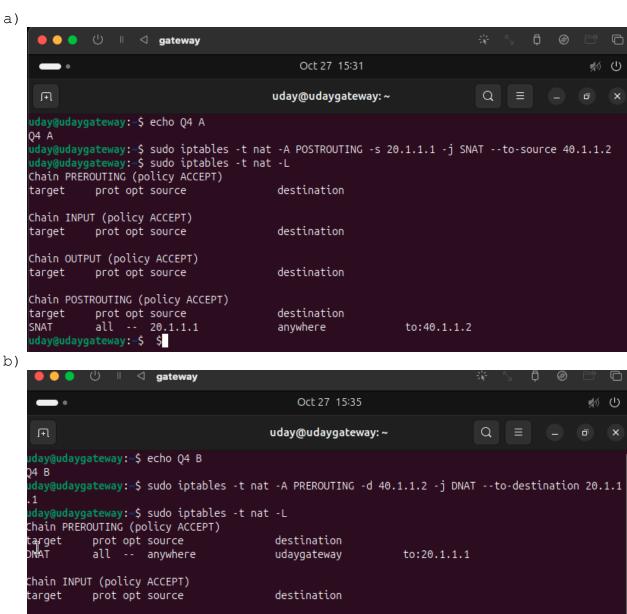
Chain POSTROUTING (policy ACCEPT)

target

target

SNAT

a)



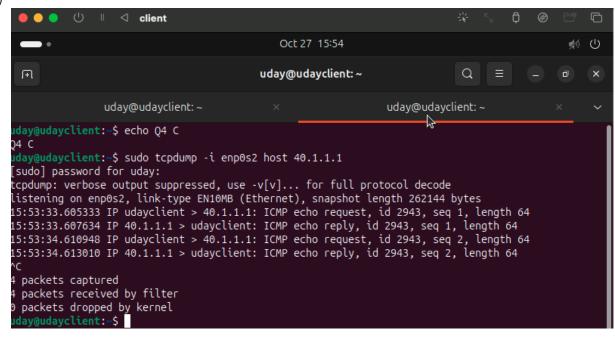
destination

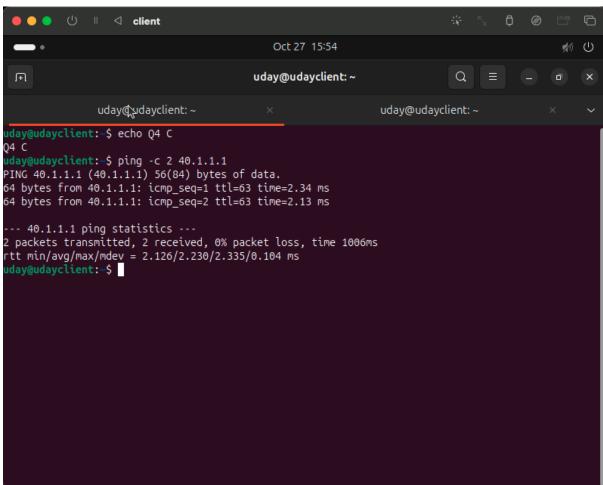
destination

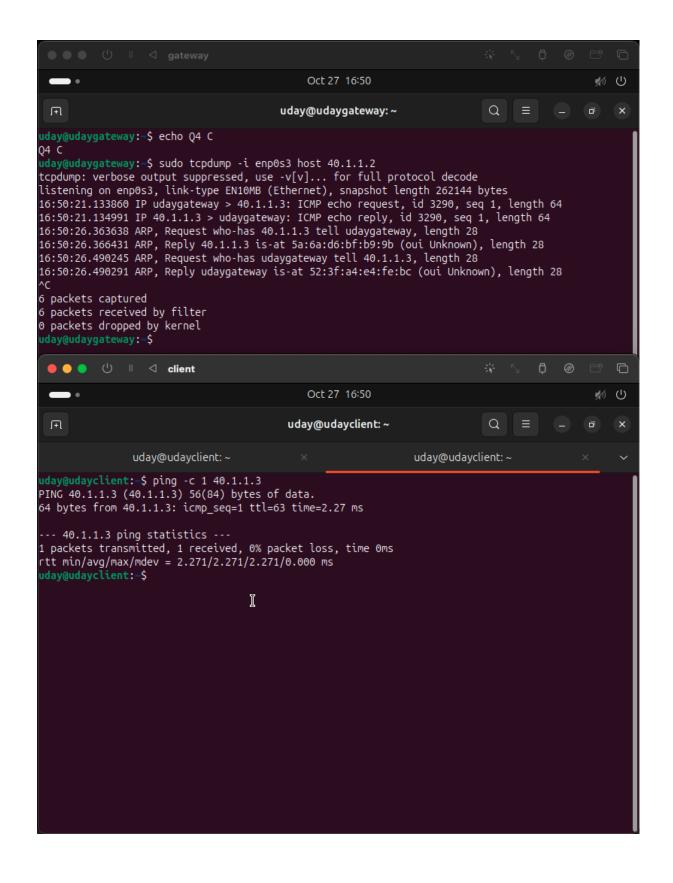
to:40.1.1.2

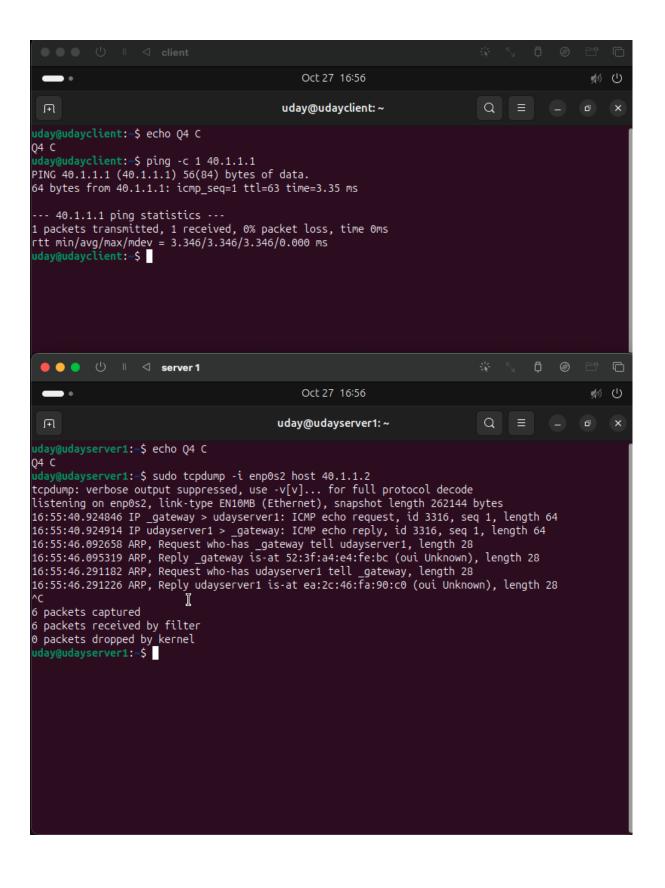
anywhere

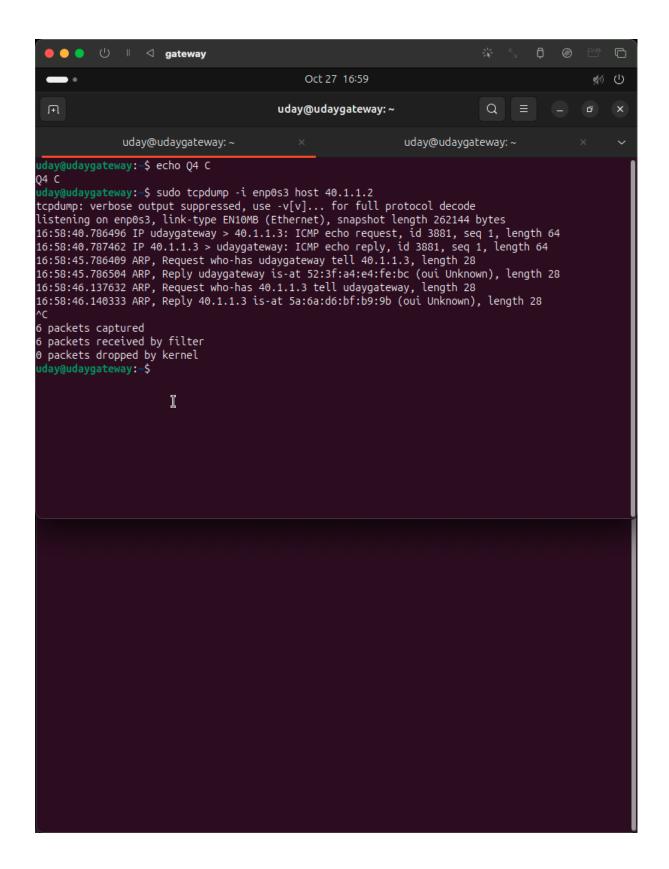
C)

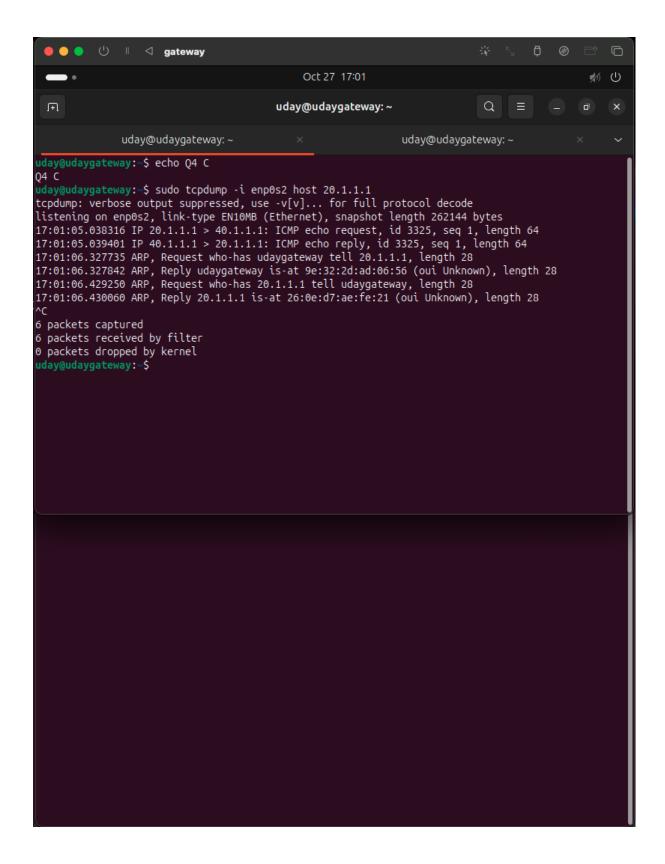






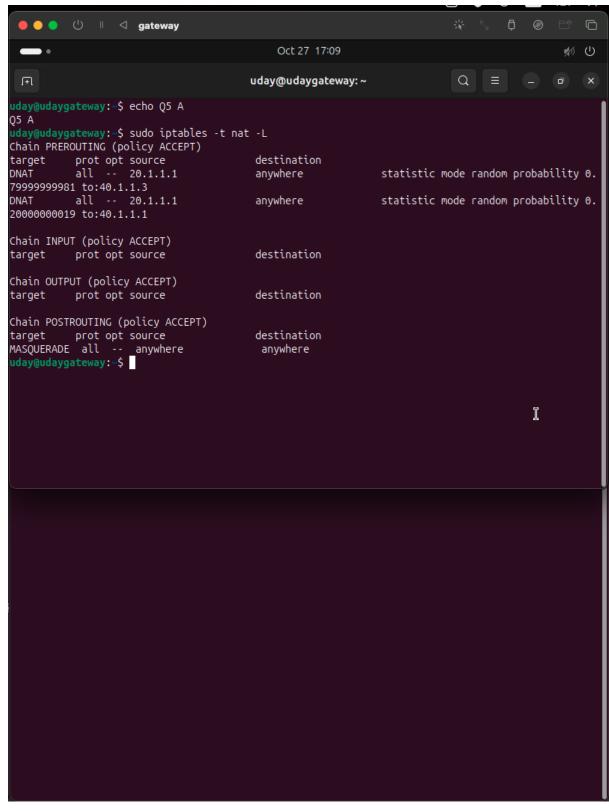


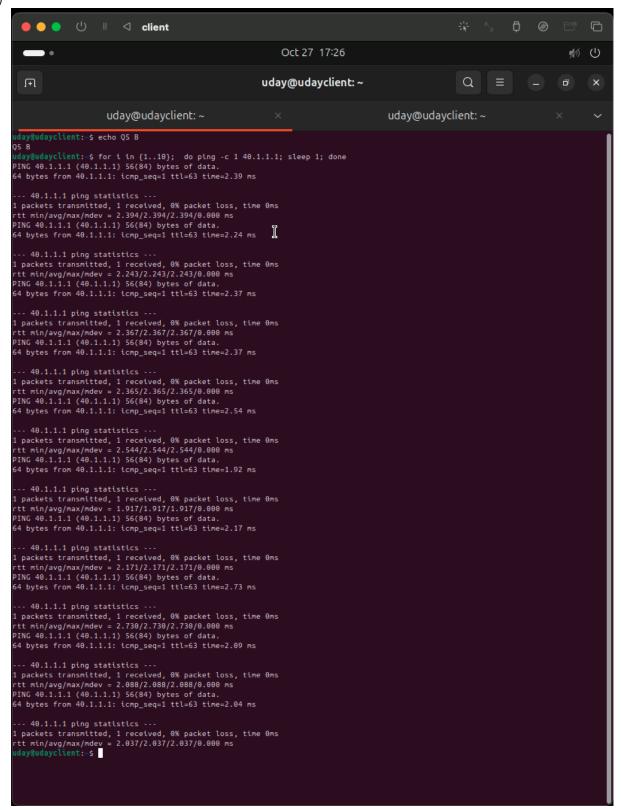


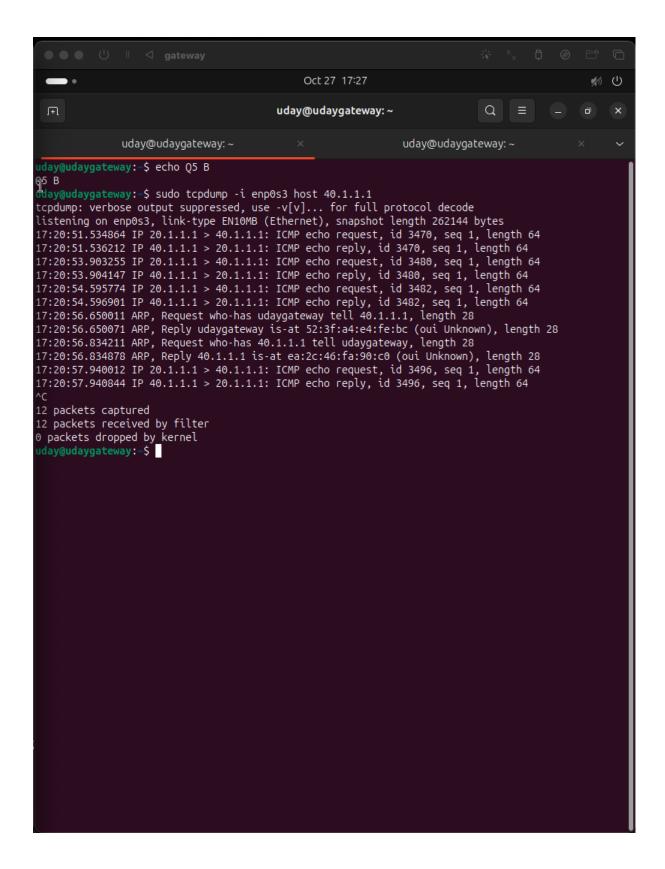


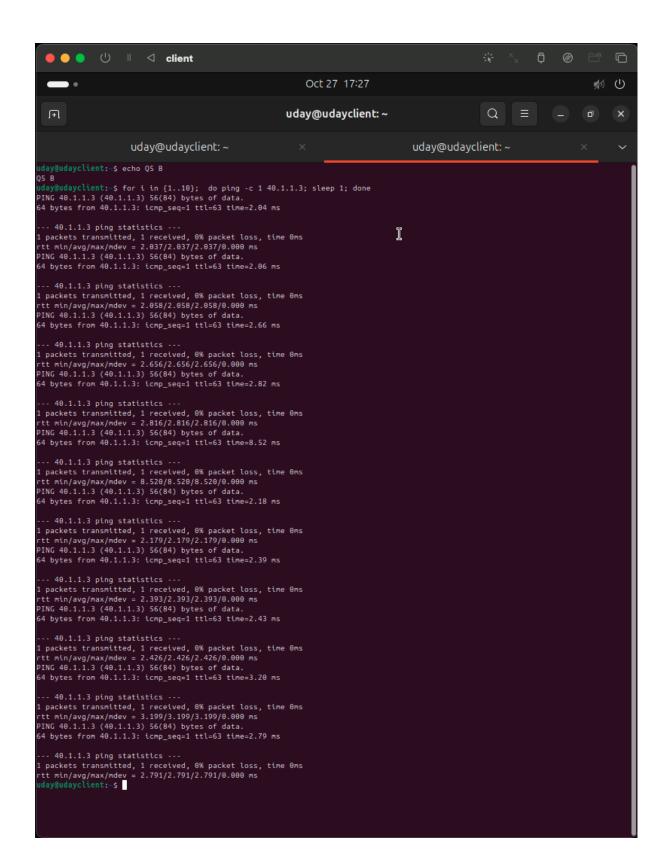
Question 5:

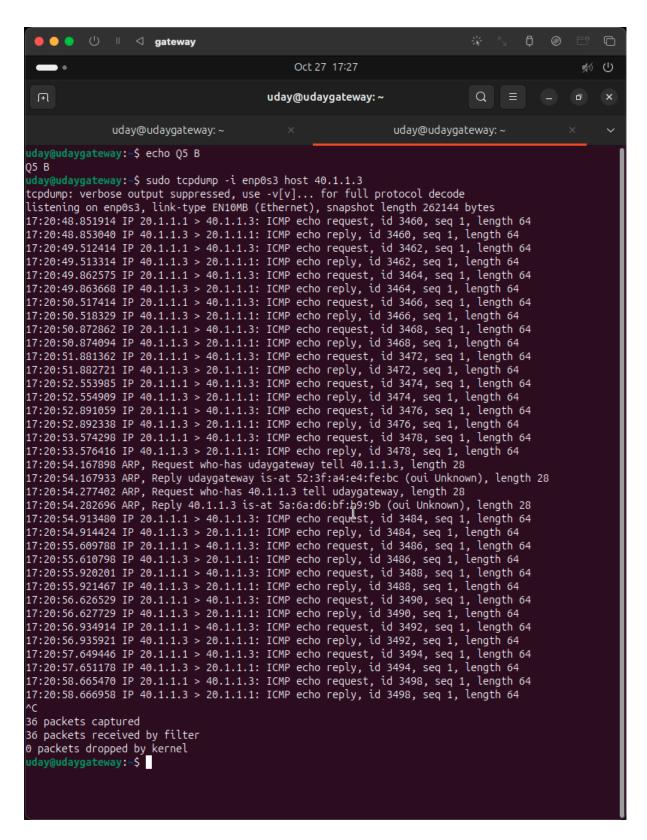
a)











As we can see there are 16 requests from server 2 (0.8 probability) whereas 4 from server 1 which is the one with the higher RTT.