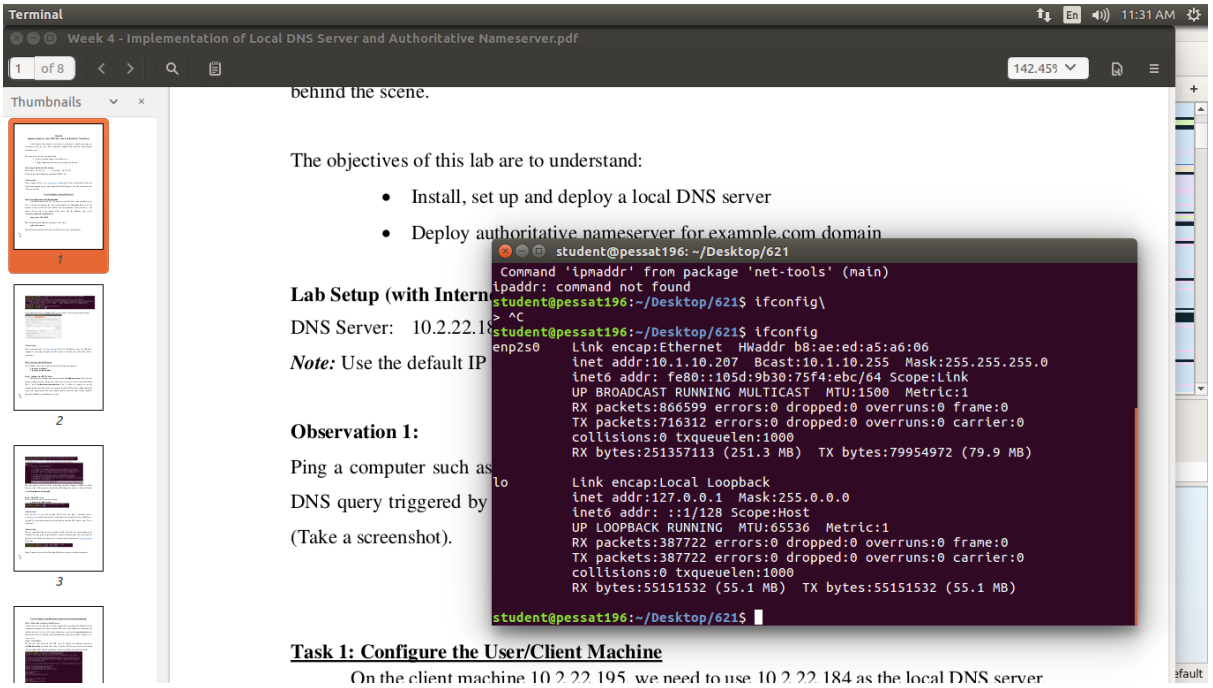
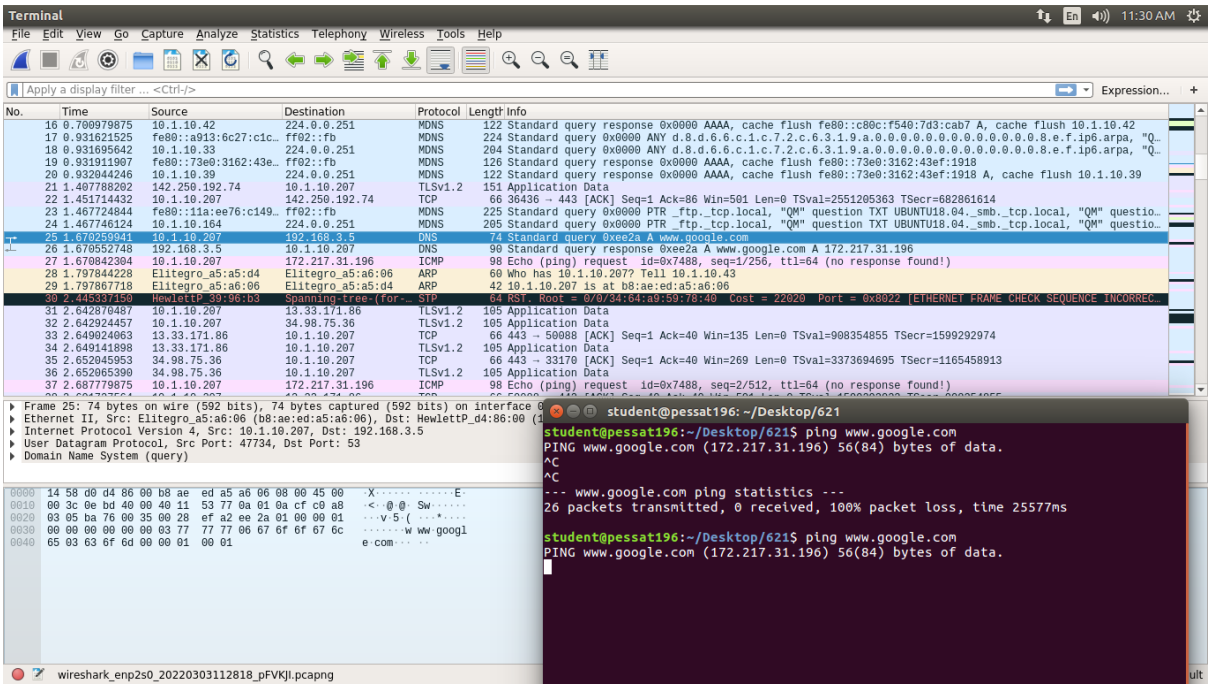
Name: Adithya M SRN: PES1UG20CS621 SECTION: K

1. Client Side

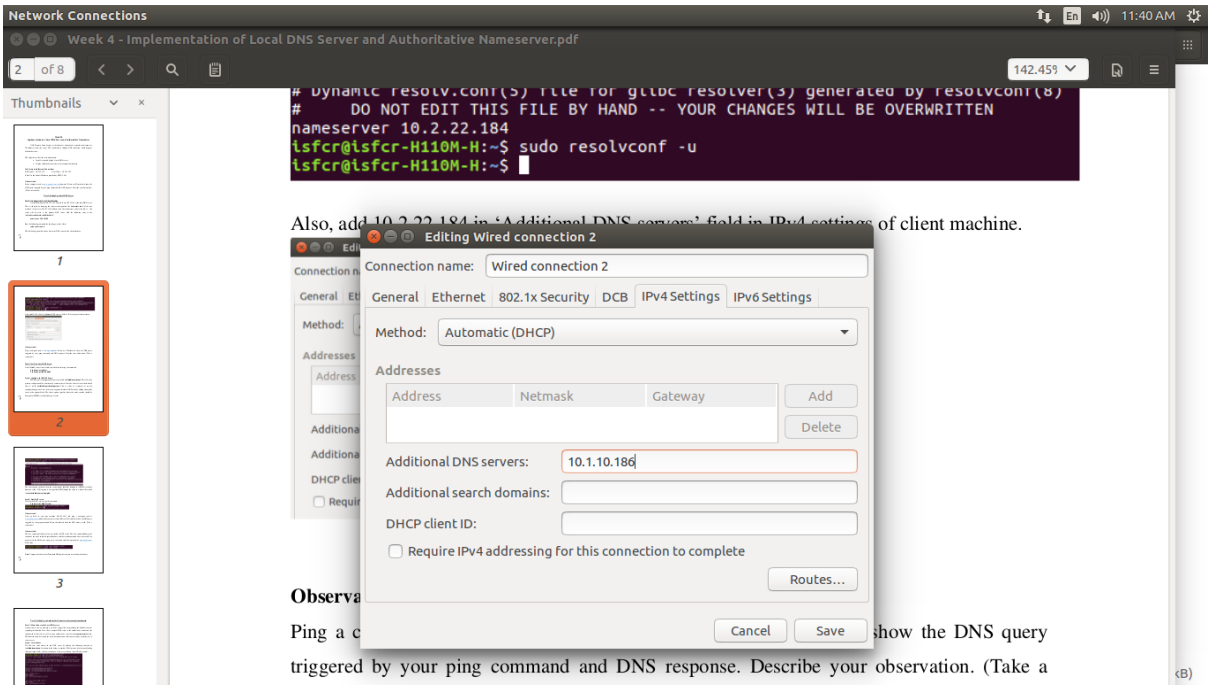
Client IP: 10.1.10.207



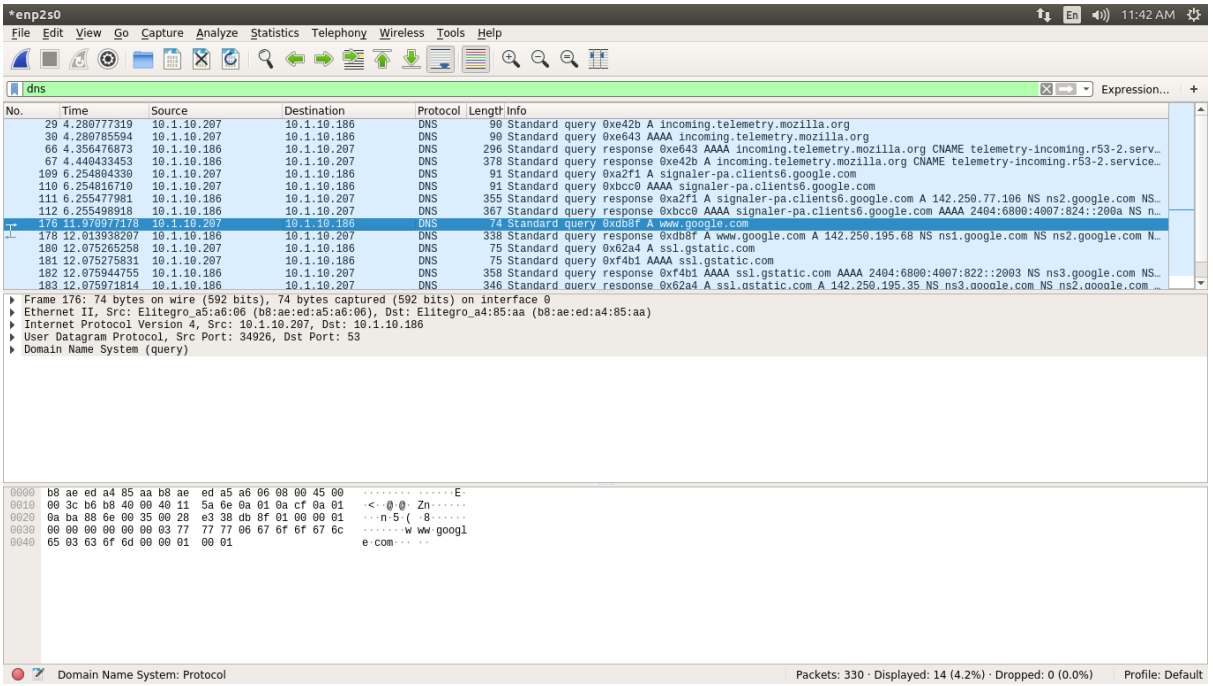
Observation 1



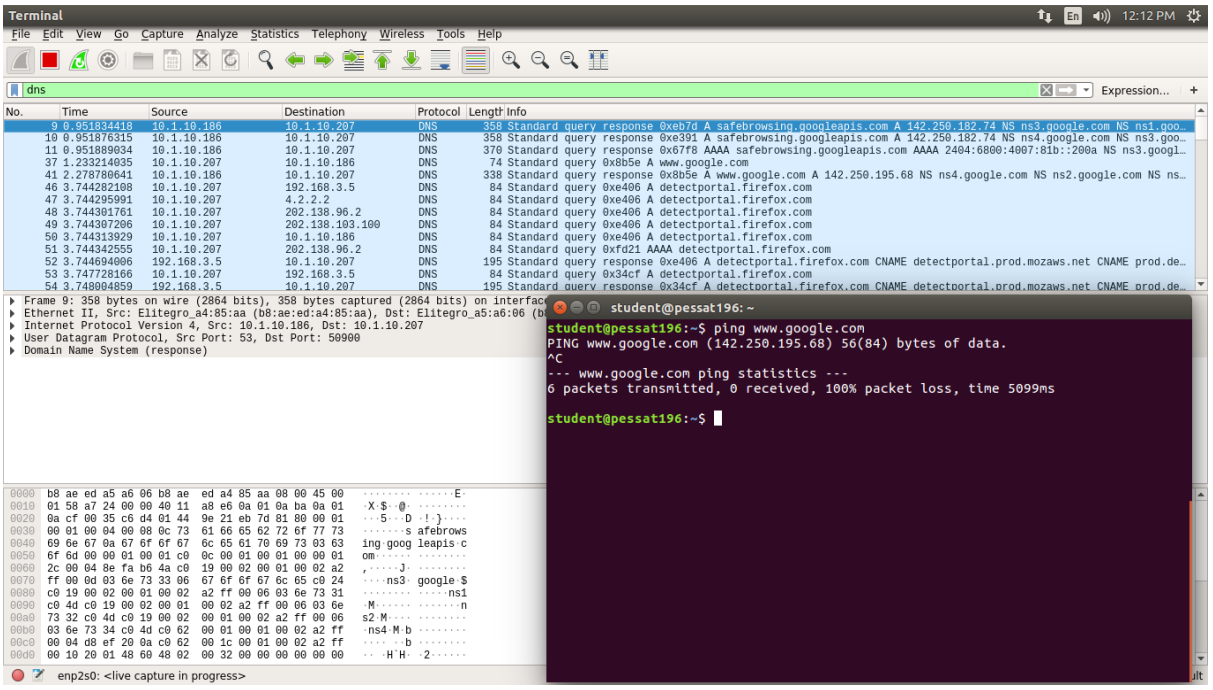
Setting Up 10.1.10.186 (Server) as Additional DNS Server:

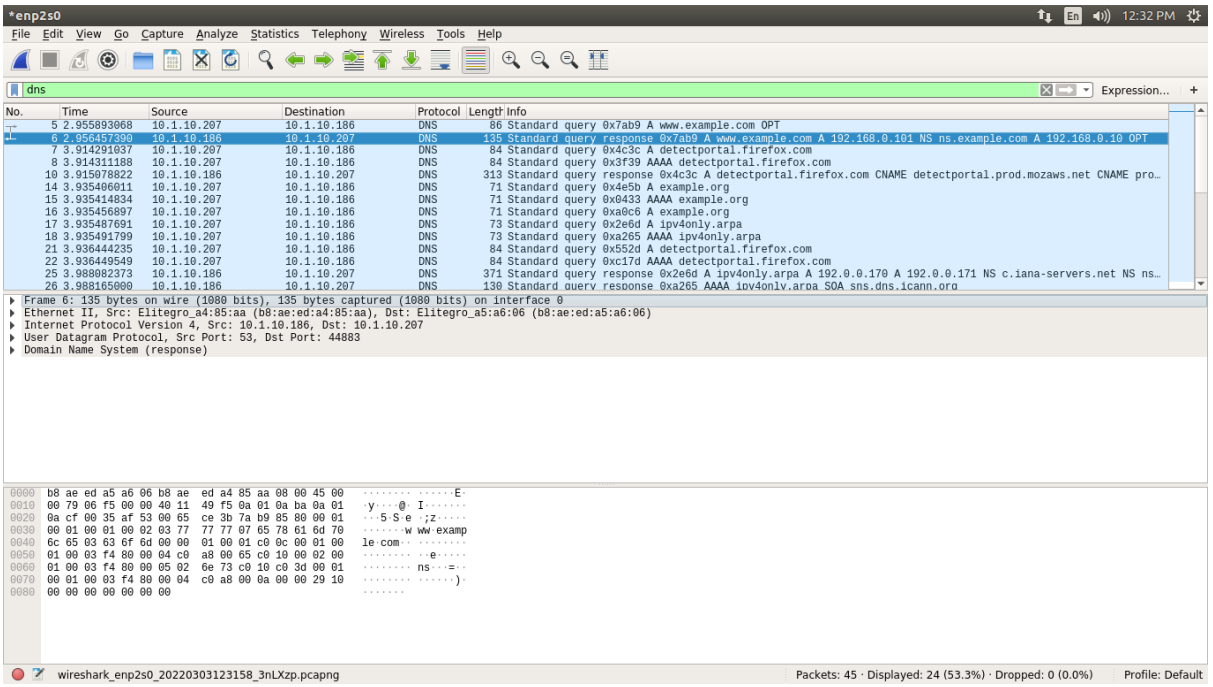


Observation 2:



Observation 3:





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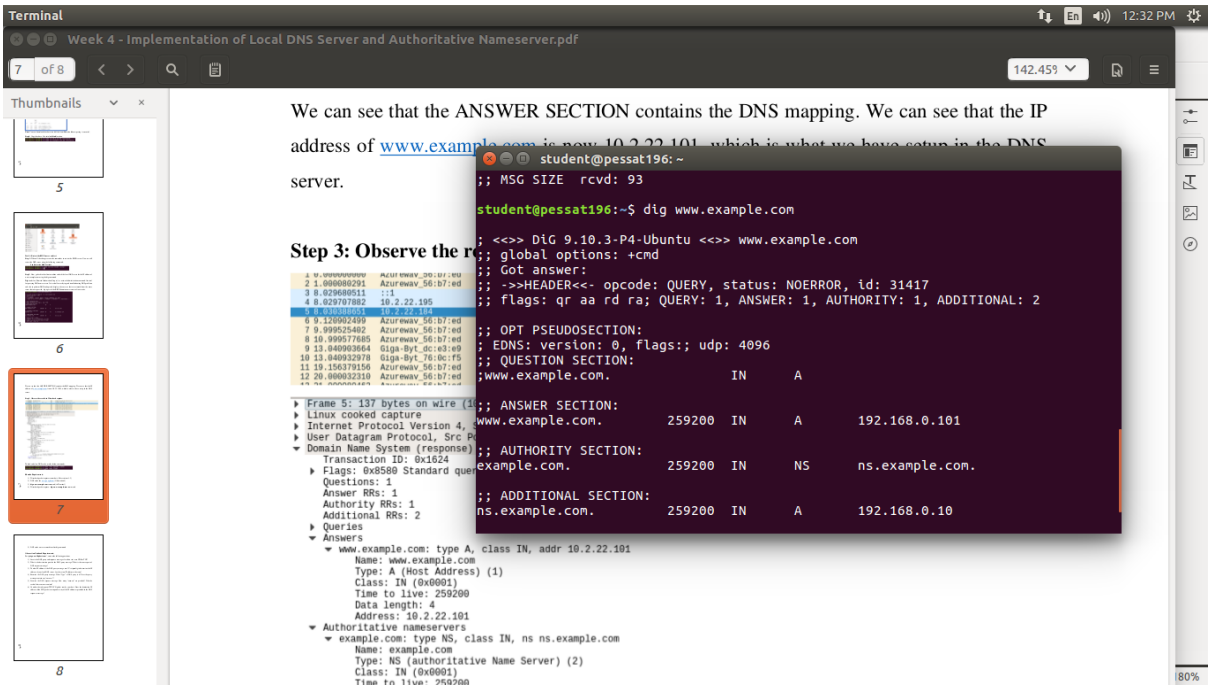
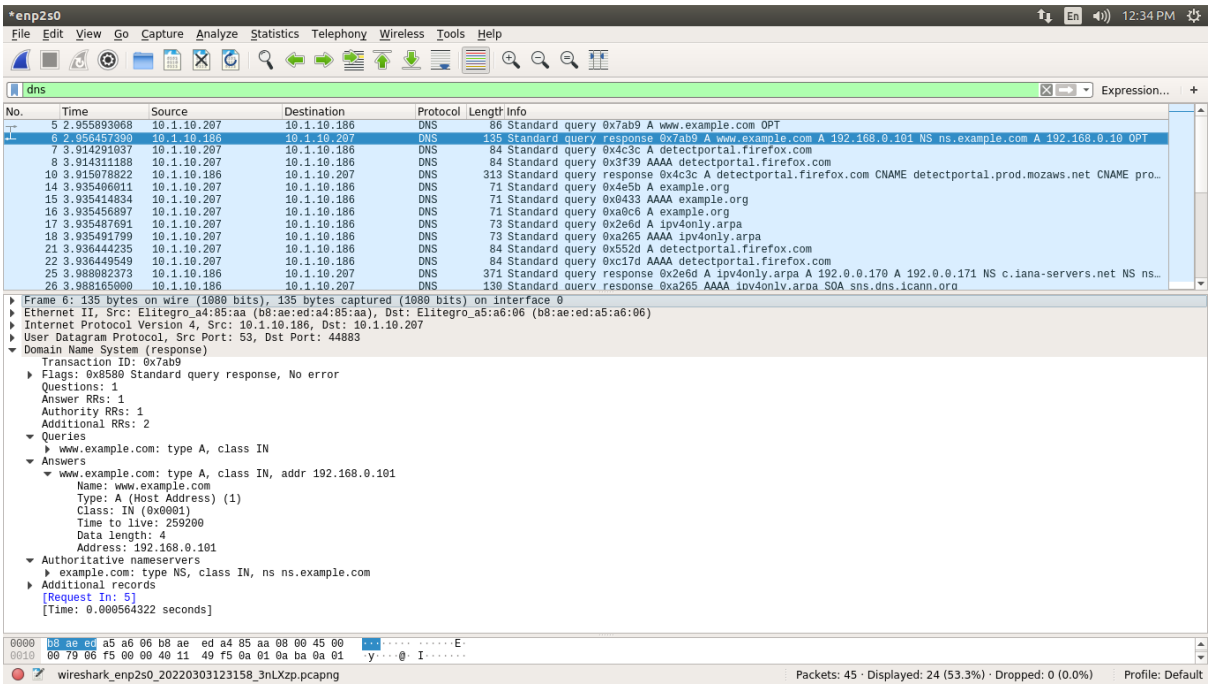
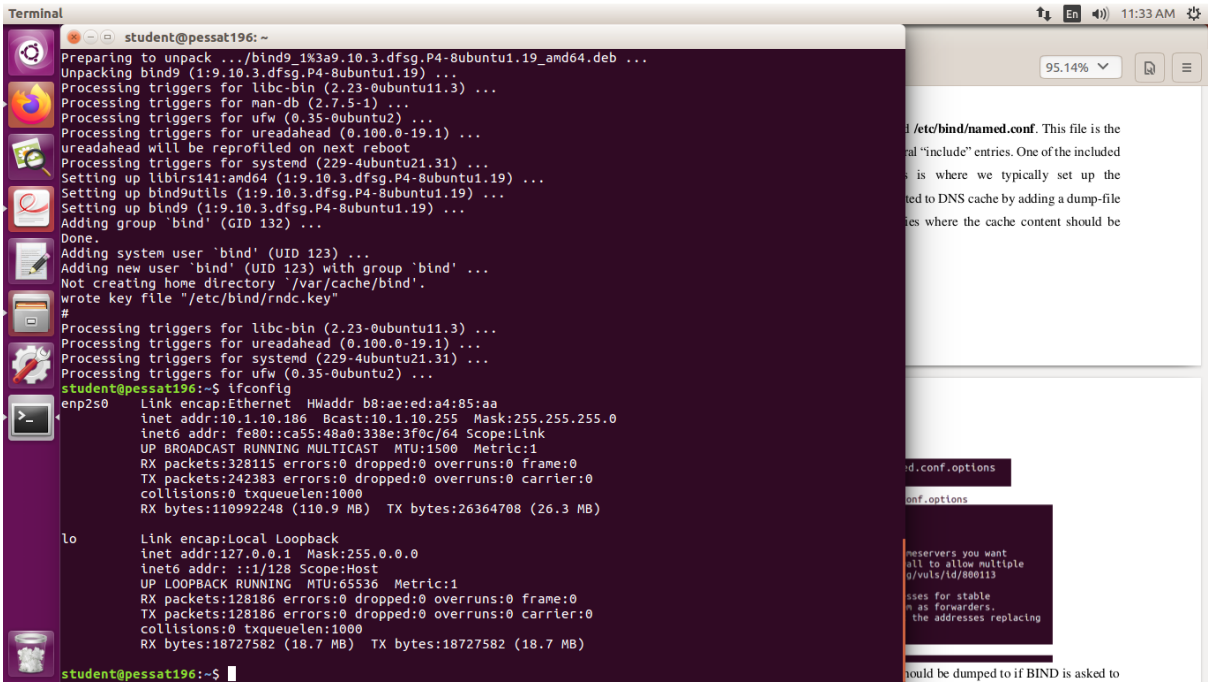


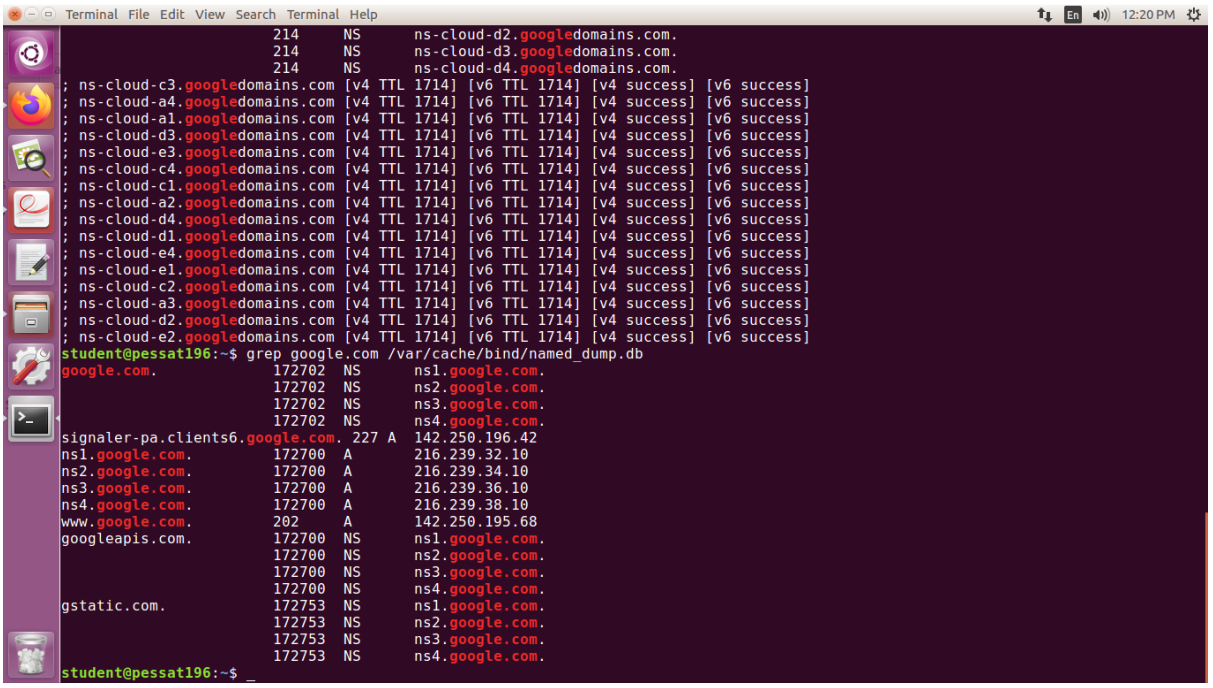


2. Server Side

IP address is 10.1.10.186



Dump.db



Observation Notebook Requirements:

1) Locate the DNS query and response messages. Are they sent over UDP or TCP?

Ans: UDP

2) What is the destination port for the DNS query message? What is the source port of DNS response messages?

Ans: 53

3) To what IP address is the DNS query message sent? Use ipconfig to determine the IP address of your local DNS server. Are these two IP addresses the same?

Ans: 10.1.10.186

4) Examine the DNS query message. What “Type” of DNS query is it? Does the query message contain any “answers”?

Ans: Type A as it requests for an authoritative record. No answer

5) Examine the DNS response message. How many “answers” are provided? What do each of these answers contain?

Ans:
CNAME RR: Tells that the hostname flipkart.com refers to the canonical hostname www.flipkart.com.
A type RR: Provides the IP Address of the canonical hostname.

6) Consider the subsequent TCP SYN packet sent by your host. Does the destination IP address of the SYN packet correspond to any of the IP addresses provided in the DNS response message?

Ans: Destination IP Address corresponds to the IP address of flipkart.com