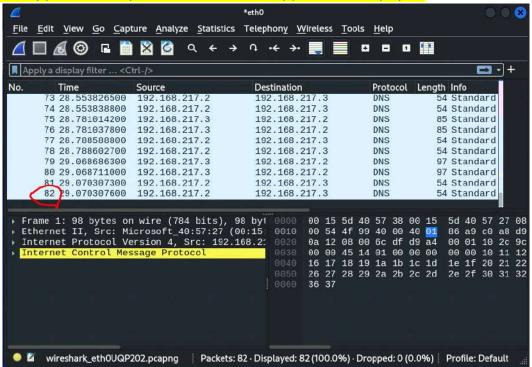
Assignment: Lab 2 – Traffic Tracing and Sniffing

CYSE 301 – Professor Vatsa

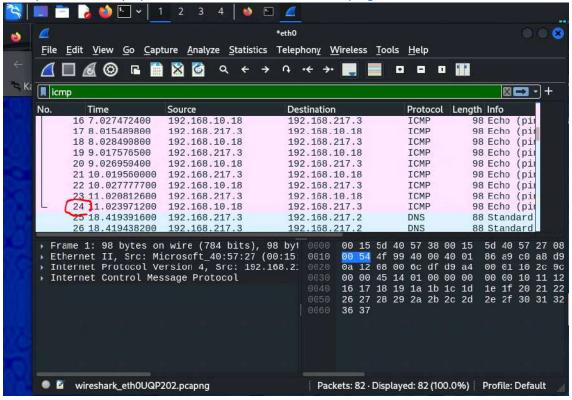
Brandon Creech (UIN: 01215415)

Old Dominion University

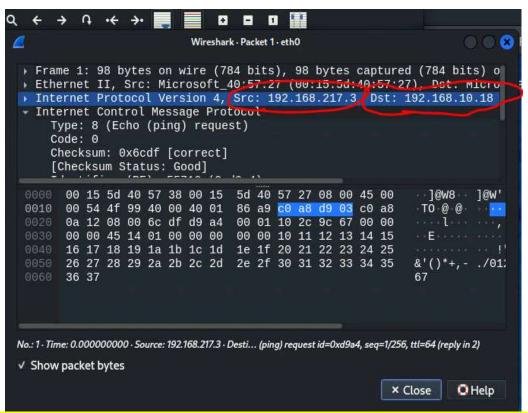
Q1. How many packets are captured in total? How many packets are displayed? There are a total of 82



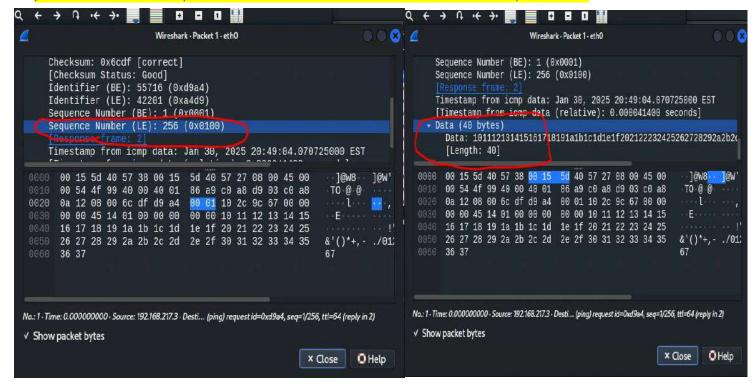
packets captured and displayed on the eth0 interface from the ping.



Q2: Apply "ICMP" as a display filter in Wireshark. Then repeat the previous question. After applying the "ICMP" display filter on Wireshark. There are now 24 packets being displayed through the filter.



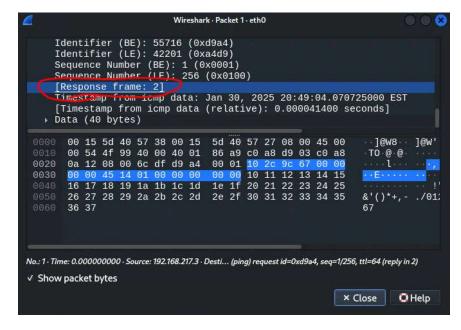
Q3. Select an Echo (replay) message from the list. What are the source and destination lps of this packer? What are the sequence number and the size of the data? What is the response time? Above is



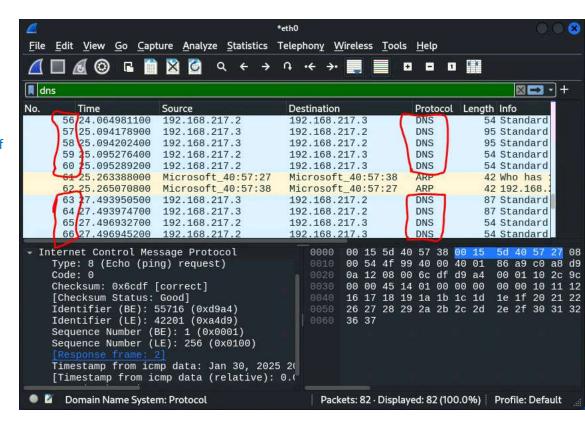
Packet 1 from the Echo message list. The source IP is 192.168.217.3 and the destination IP is 192.168.10.18.

The left screenshot is the sequence number, and the right screenshot is the data size, which both can be found under the packet's information list.

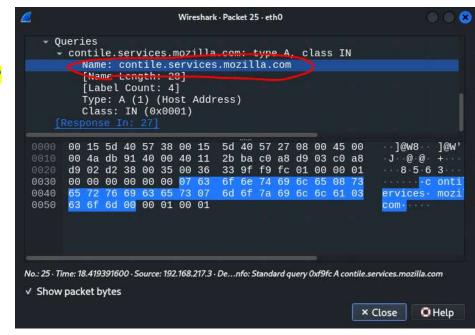
Lastly, the screenshot to the right is the response time of the packet.



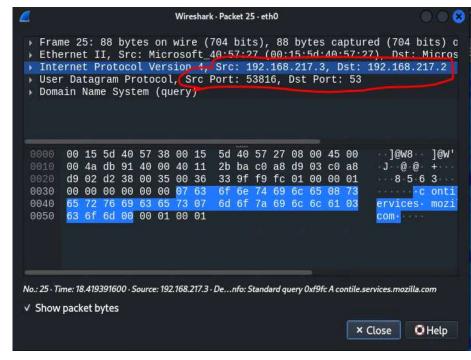
Q4. Apply "DNS" as a display filter in Wireshark. How many packets are displayed? After applying the "DNS" display filter on the packet list, some of the DNS packets are displayed in the screenshot above. The DNS packets on my list are numbers 25-60, and then 63-82. This means there are 56 DNS packets total.



Q5. Find a DNS query packet. What is the domain name this host is trying to resolve? What is the source IP and port number, destination IP and port number? Please express in the format: IP:port. After opening a DNS query packet, the screenshot to the right is the domain name that the host is trying to resolve.



This screenshot to the right is the source IP address and the destination IP address. Just below that line are the corresponding port numbers. The IP:port format would be 192.168.217.3:53816 → 192.168.217.2:53.



```
Wireshark · Packet 25 · eth0
Domain Name System (query)
    Transaction ID: 0xf9fc
  - Flags: 0x0100 Standard query
       0... .... e Response: Message is a query
       .000 0... ... = Opcode: Standard query (0)
... .0. ... = Truncated: Message is not truncated
       .... ...1 .... = Recursion desired: Do query recursively
       .... = Z: reserved (0)
       .... .... Unacceptable
    Questions: 1
   Answer RRs: 0
    Authority RRs: 0
    Additional RRs: 0
  Queries
     contile.services.mozilla.com: type A, class IN
         Name: contile.services.mozilla.com
0000 00 15 5d 40 57 38 00 15 5d 40 57 27 08 00 45 00 0010 00 4a db 91 40 00 40 11 2b ba c0 a8 d9 03 c0 a8 0020 d9 02 d2 38 00 35 00 36 33 9f f9 fc 01 00 00 01 0030 00 00 00 00 00 07 63 6f 6e 74 69 6c 65 08 73
                                                                  ]@W8 ]@W' E
J @ @ +
                                                                   8 5 6 3 .....
                                                                  ·····c ontile·s
0040 65 72 76 69 63 65 73 07 6d 6f 7a 69 6c 6c 61 03
                                                                  ervices· mozilla·
0050 63 6f 6d 00 00 01 00 01
                                                                  com····
```

Q6.Find the corresponding DNS response to the query you selected at the previous step, and what is the source IP and port number, destination IP and port number? What is the message replied from the DNS server? Source IP Address: 192.168.217.3

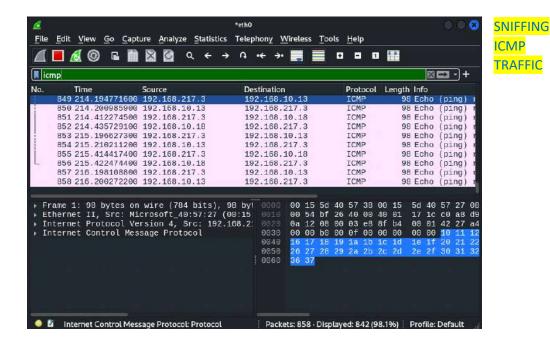
Port Number: 53816

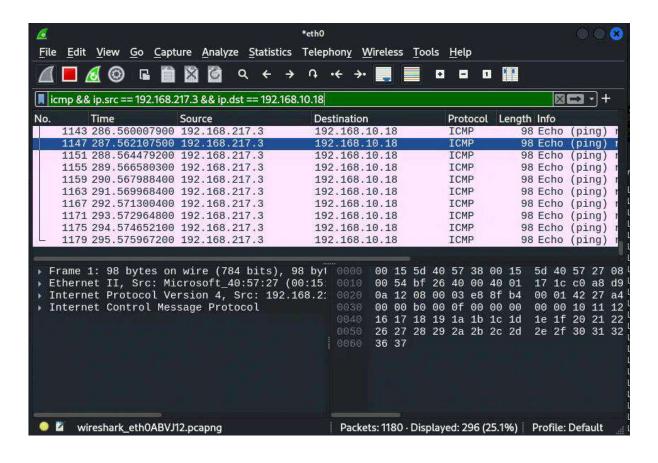
Destination IP Address: 192.168.217.2

Port Number: 53

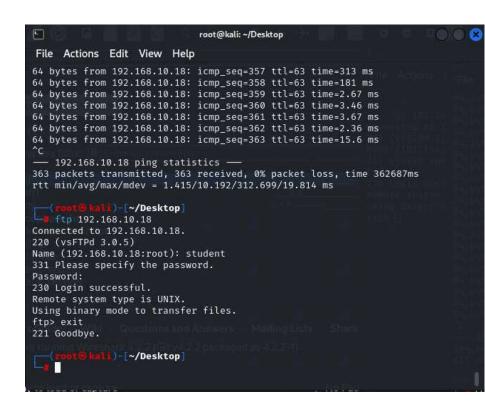
There was no message replied from the DNS server for me per screenshot above.

1. A.





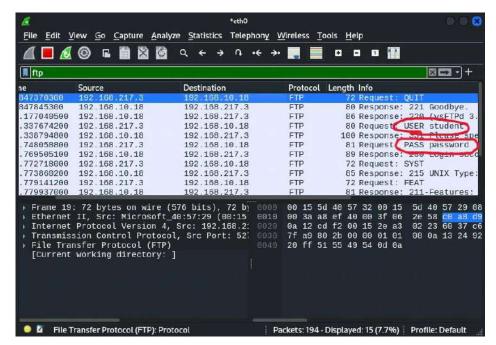
1. A.



SNIFFING FTP TRAFFIC



I found the password by utilizing the ftp Ubuntu IP command and finding the FTP packets after logging into the FTP server. The FTP packets with the USER student and PASS password was the info needed.



STEALING FILES WITH WIRESHARK

2. C.

```
root@kali: ~/Desktop
File Actions Edit View Help
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> exit
221 Goodbye.
     mot@kali)-[~/Desktop]
 ftp 192.168.10.18
Connected to 192.168.10.18.
220 (vsFTPd 3.0.5)
Name (192.168.10.18:root): brc26qv
331 Please specify the password.
Password:
530 Login incorrect.
ftp: Login failed
ftp> exit
221 Goodbye.
 —(root® kali)-[~/Desktop]
-# ftp 192.168.10.18
Connected to 192.168.10.18.
220 (vsFTPd 3.0.5)
Name (192.168.10.18:root): brc26qv
331 Please specify the password.
Password:
012154530 Login incorrect.
ftp: Login failed
ftp>
```

