

OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

ASSIGNMENT 2: TRAFFIC TRACING AND SNIFFING

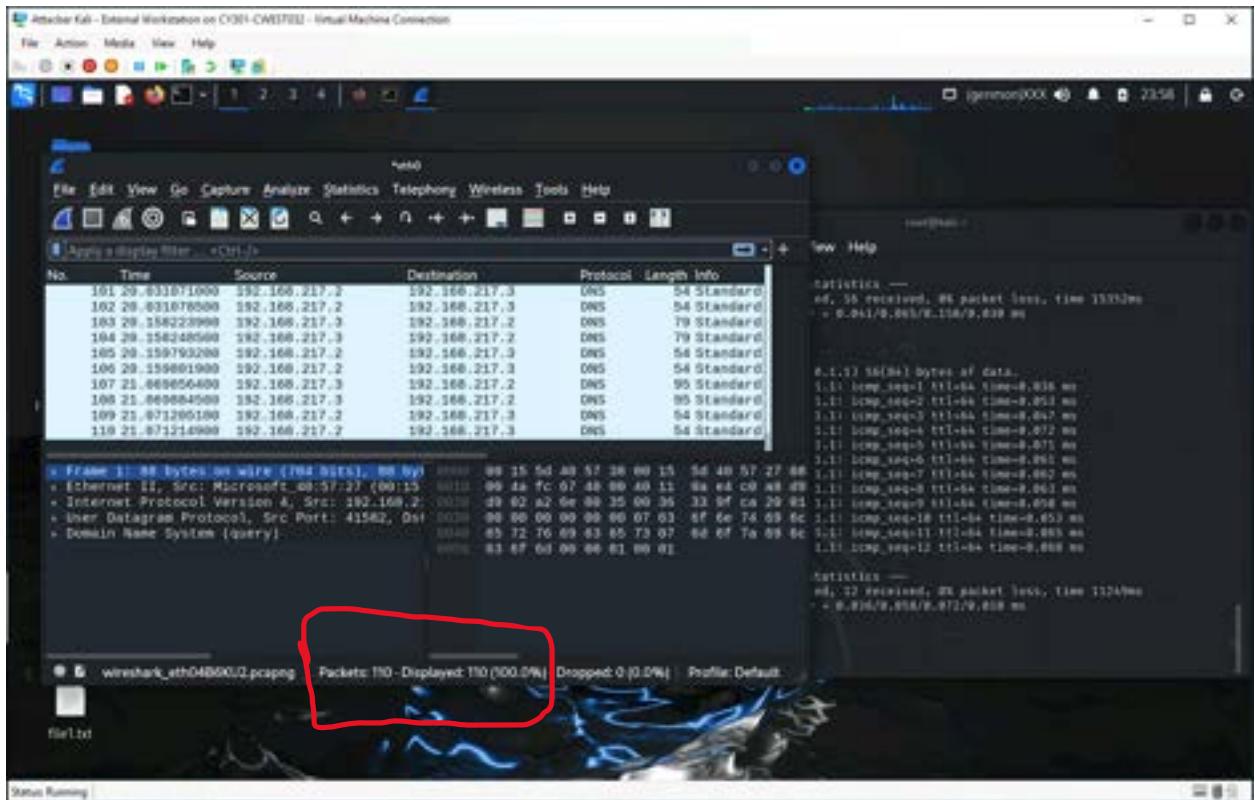
Chandler Aiden West

01226601

Below is the snippet of a sample lab report.

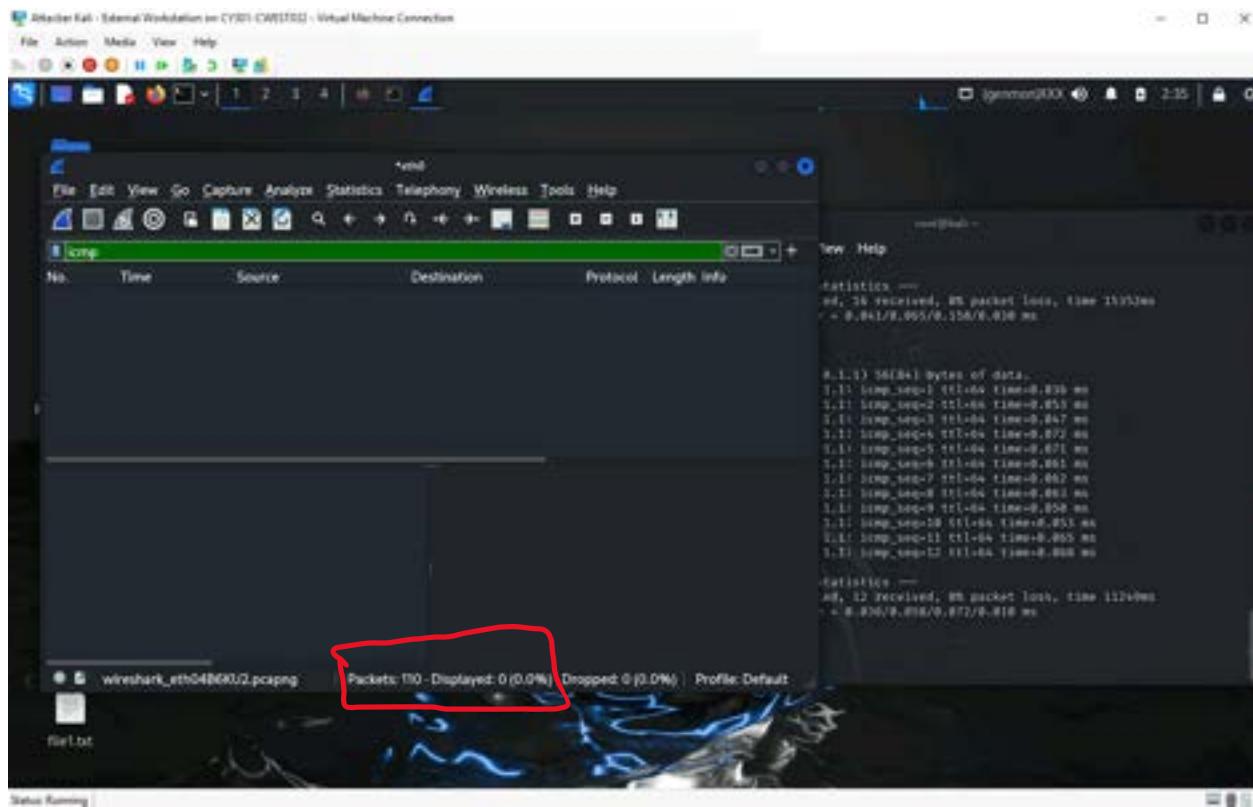
TASK A

Q1. How many packets are captured in total? How many packets are displayed?



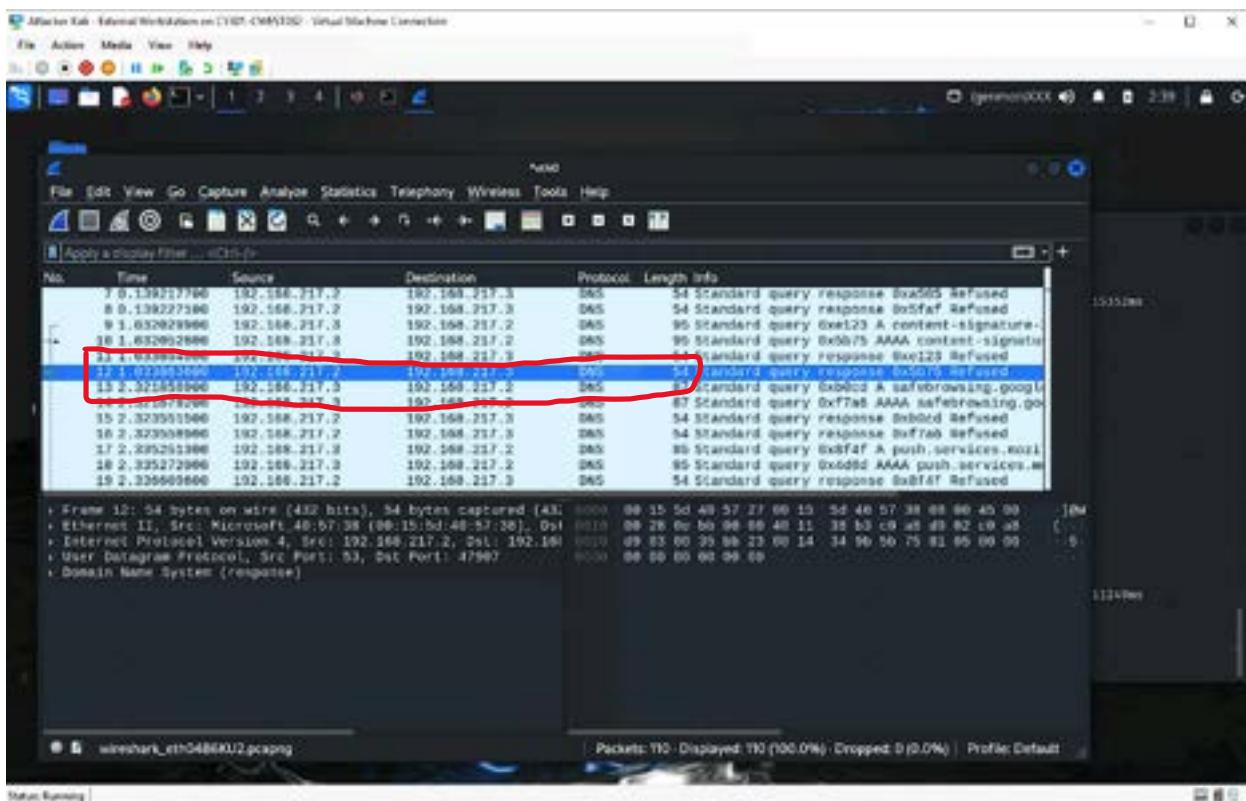
There are 110 packets captured in total and 110 packets displayed.

Q2. Apply “ICMP” as a display filter in Wireshark. Then repeat the previous question (Q1).



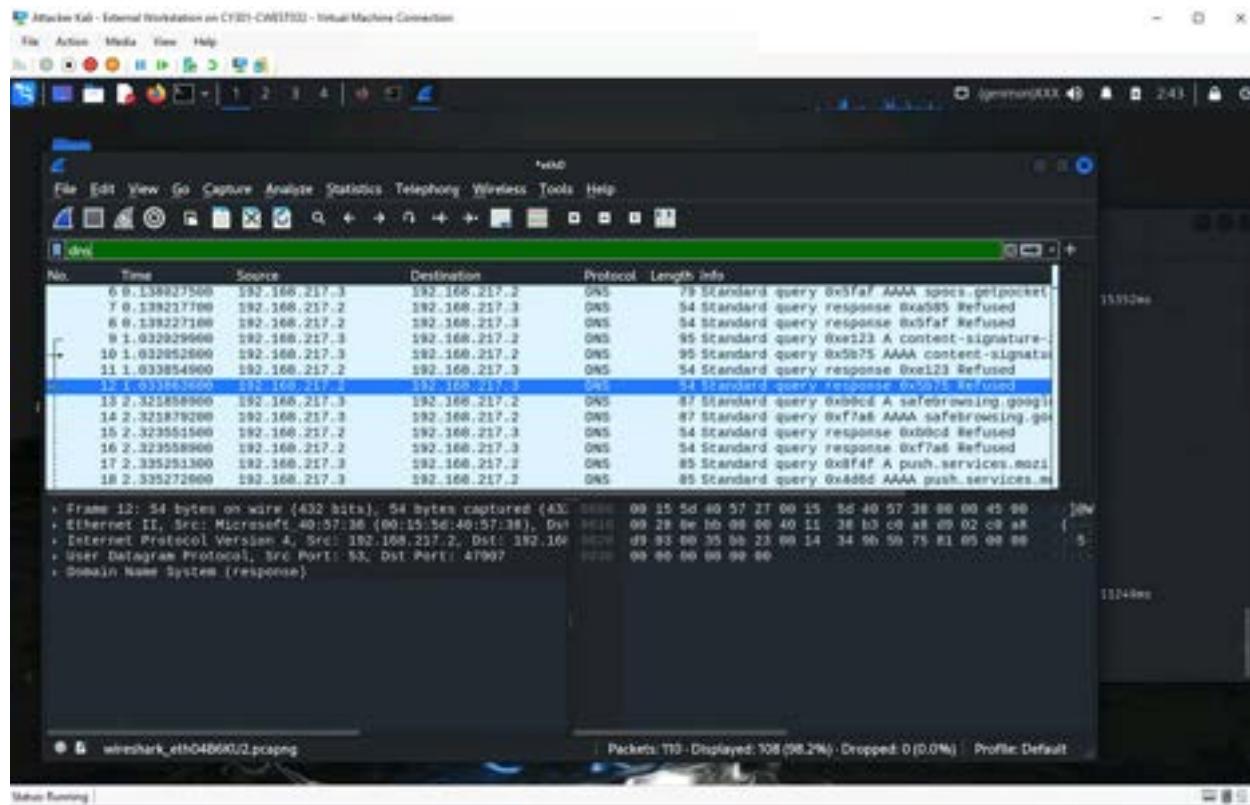
There are 110 packets captured and 0 packets displayed.

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



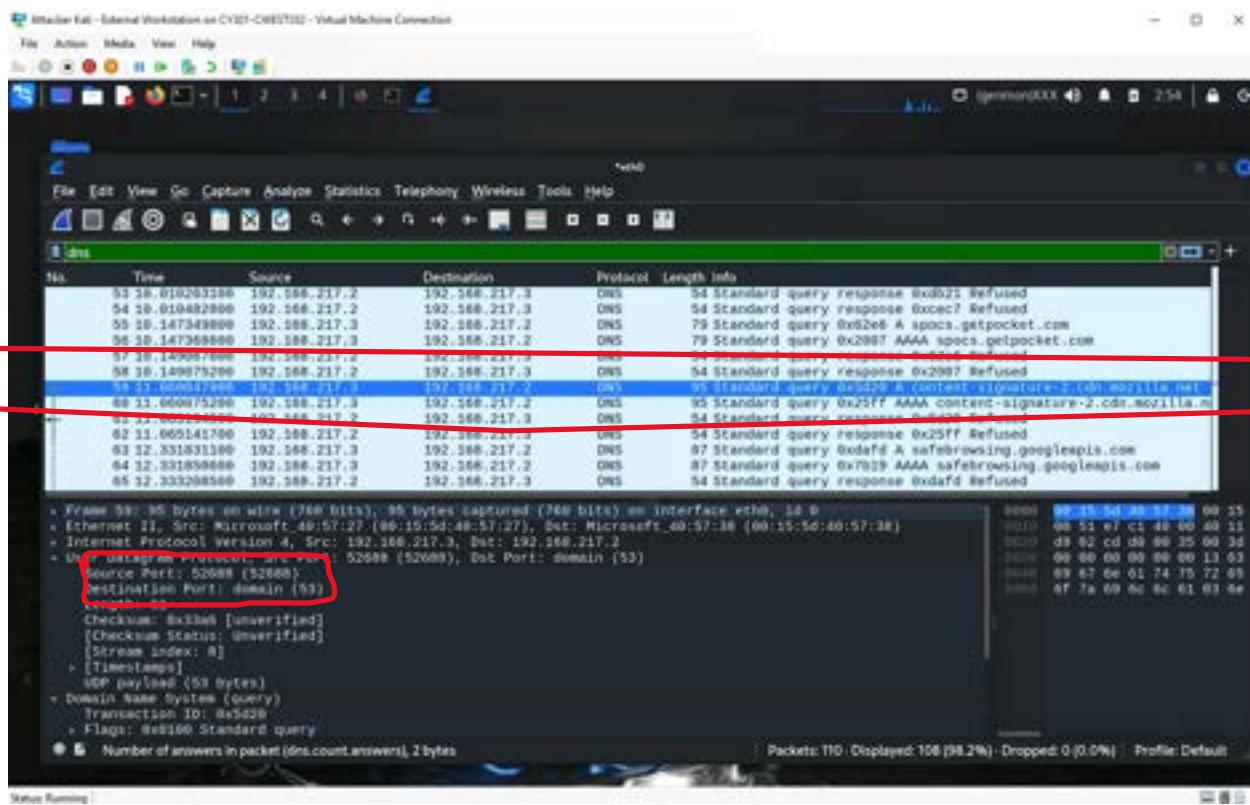
Source IP: 192.168.217.2 Destination IP: 192.168.217.3 Sequence Number: 12 Size: 54 bytes

Q4. Apply “DNS” as a display filter in Wireshark. How many packets are displayed?



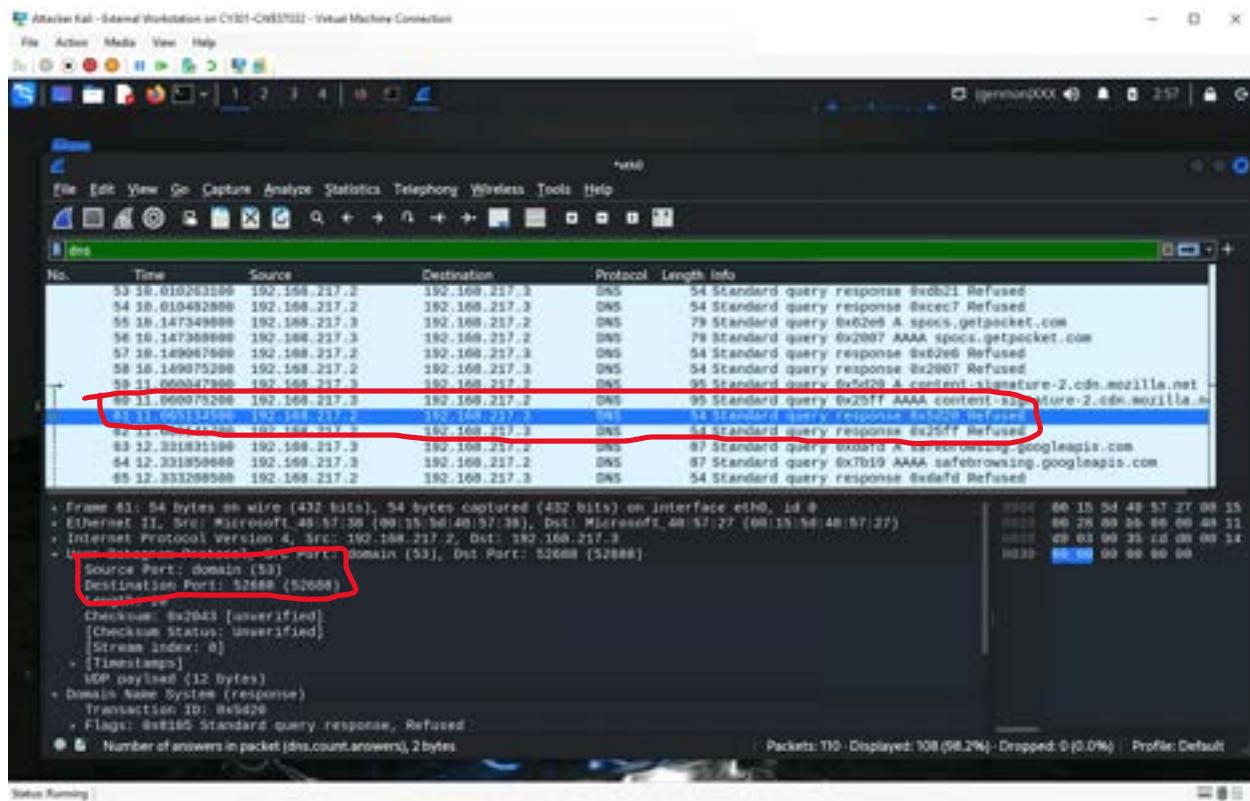
There are 110 packets and 108 packets are displayed.

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.



Domain Name: cdn.mozilla.net Source: 192.168.217.3:52688 Destination: 192.168.217.2:53

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?

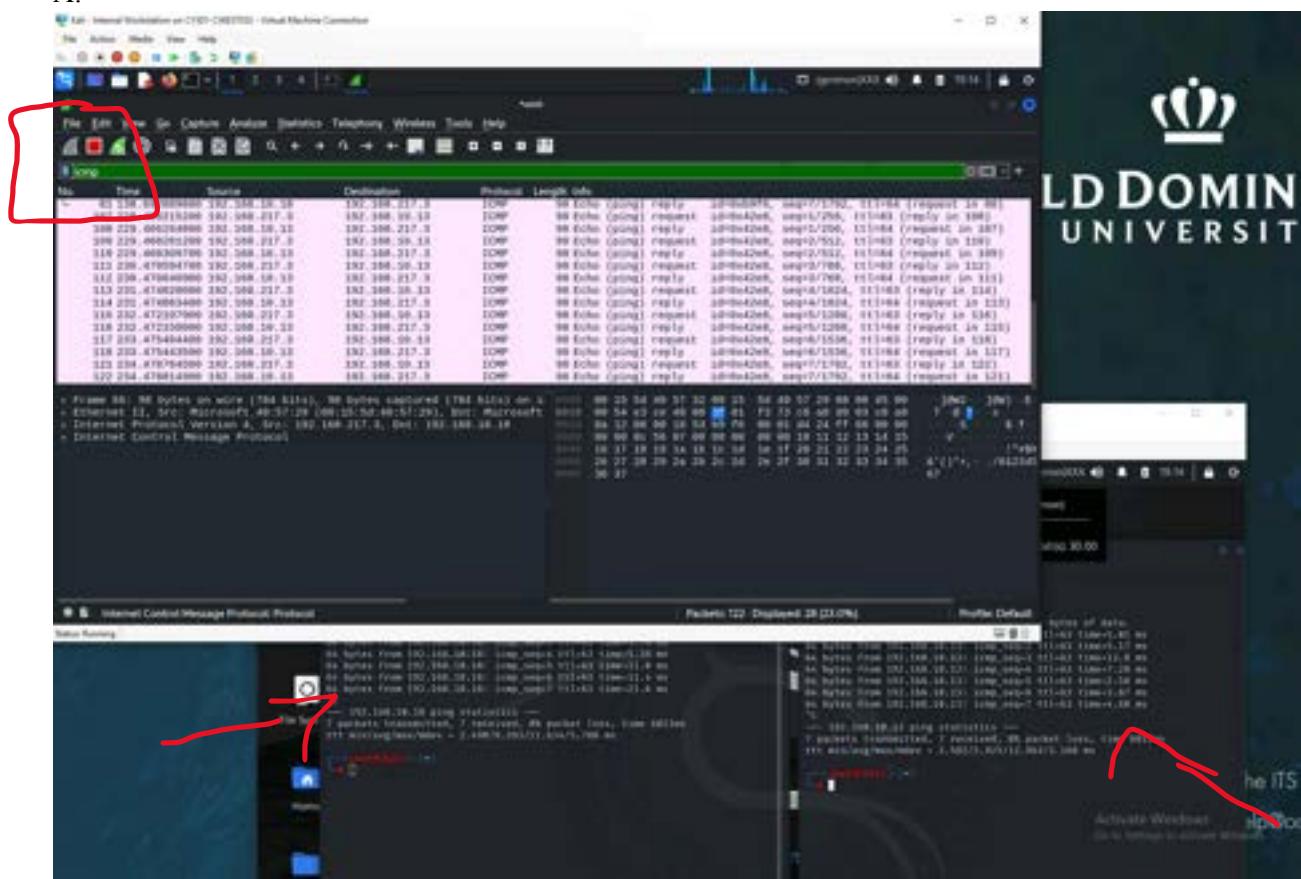


Source: 192.168.217.2:53 Destination: 192.168.217.3:52688 Message: Refused

TASK B

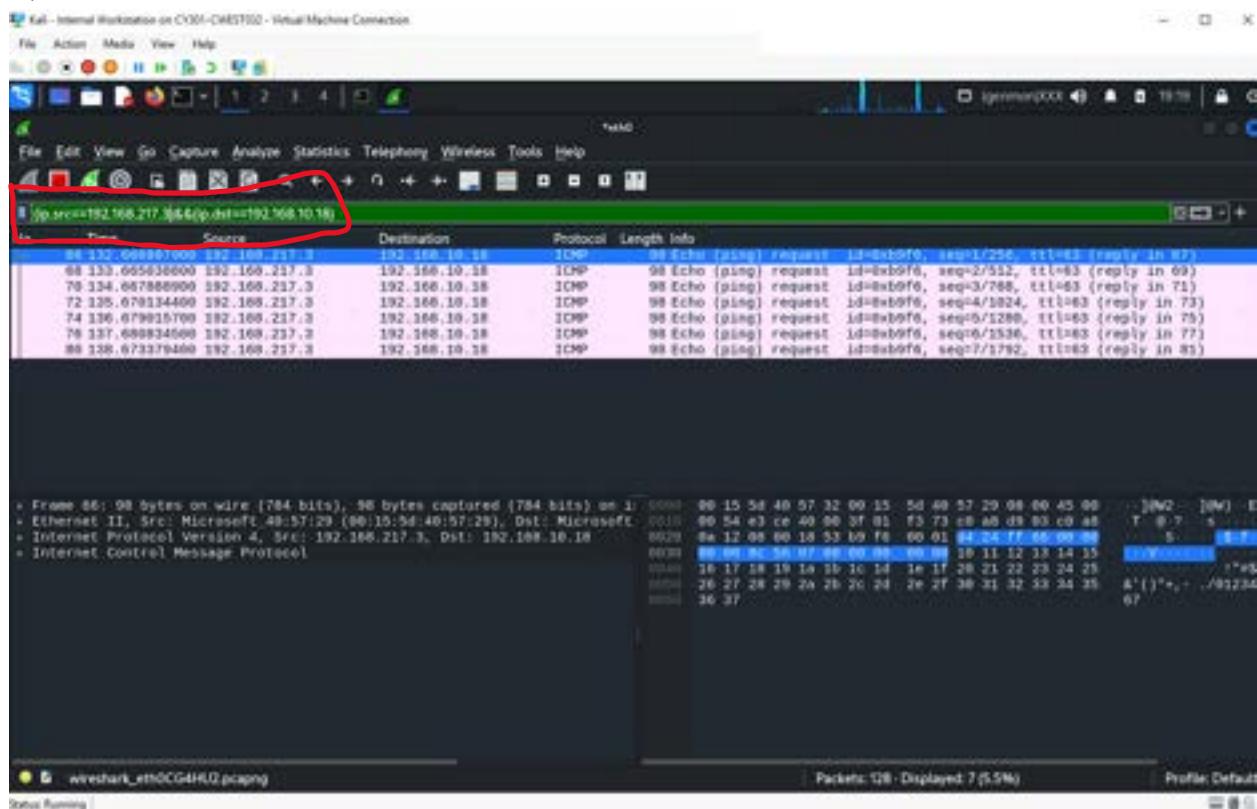
1. Sniff ICMP traffic

A:



Pinged both Internal Kali and Ubuntu and applied the icmp filter to wireshark.

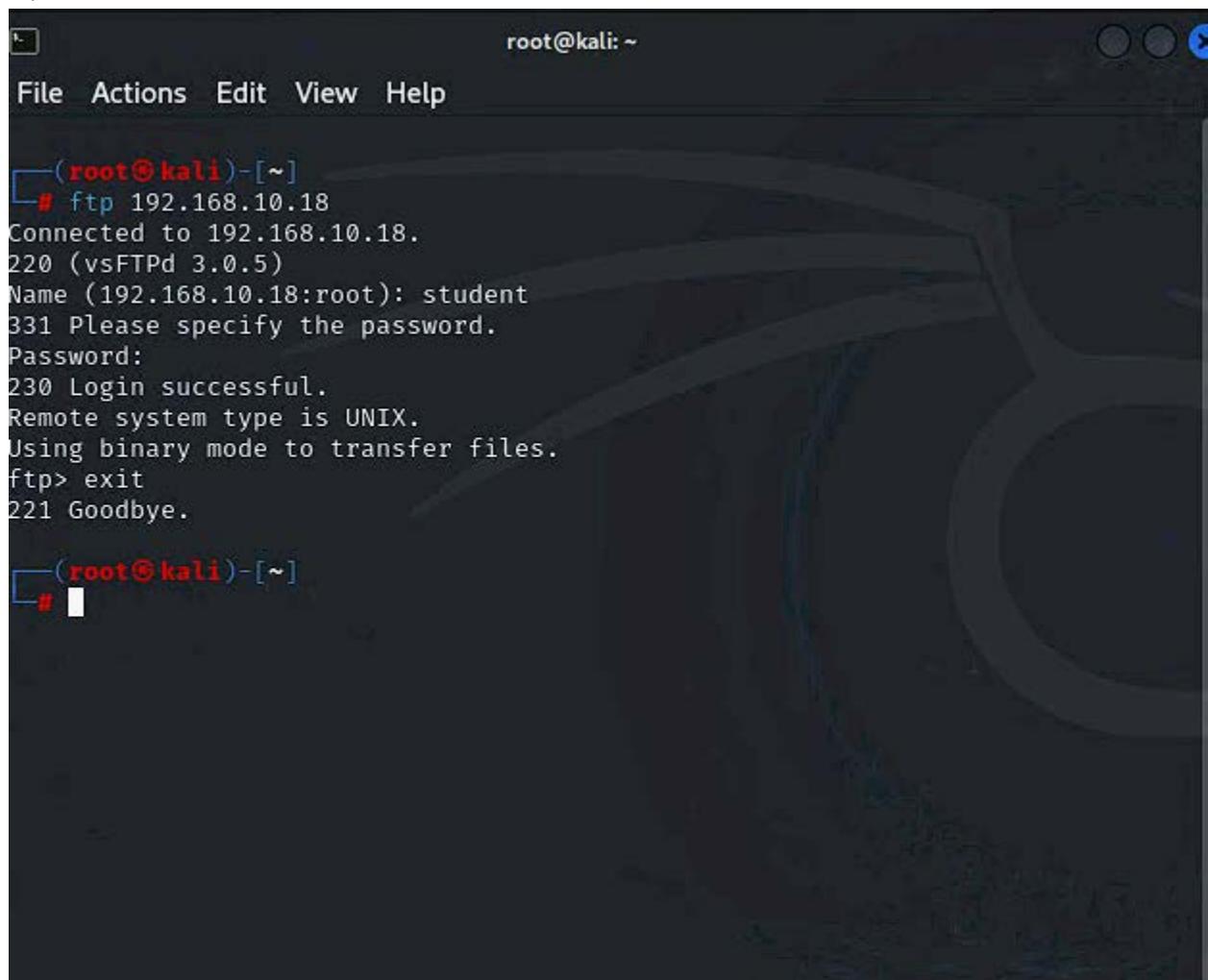
B:



Put this in the filter to see data in between external Kali and Ubuntu.

2. Sniff FTP traffic

A:



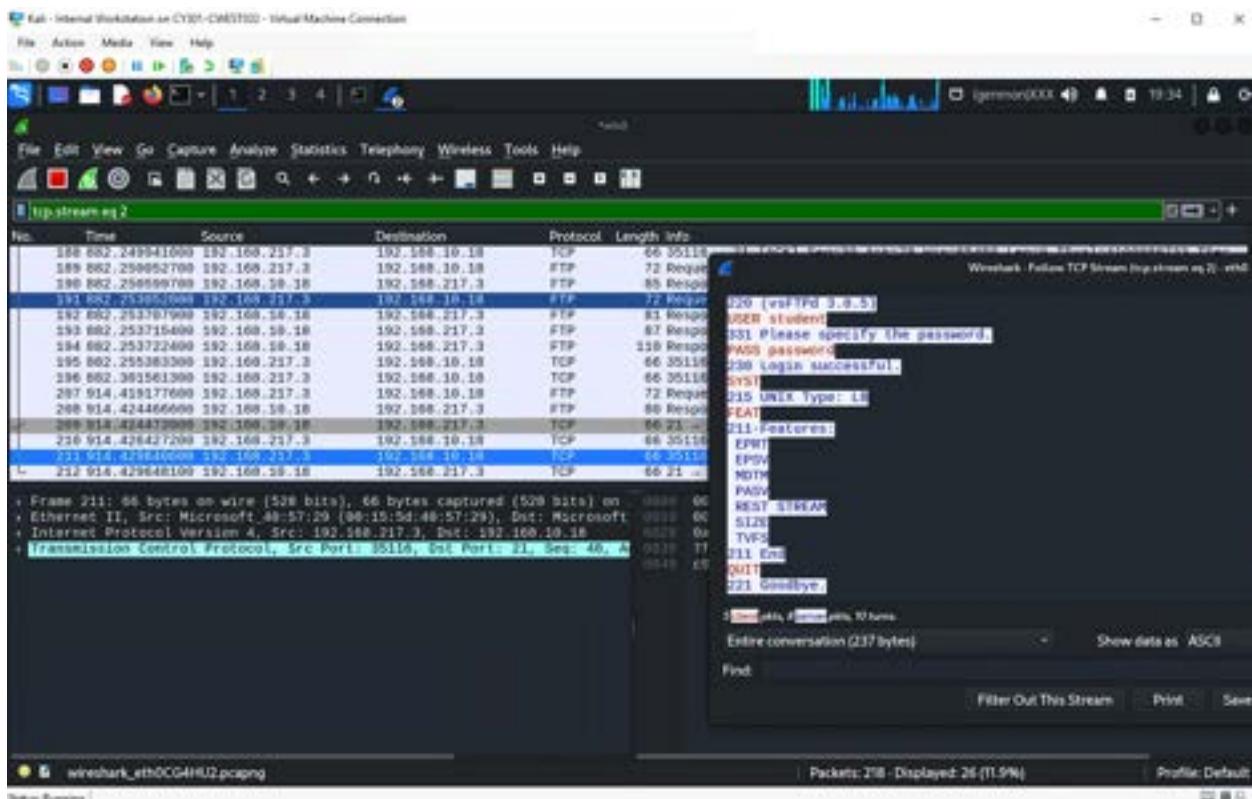
root@kali: ~

File Actions Edit View Help

```
[root@kali ~]# ftp 192.168.10.18
Connected to 192.168.10.18.
220 (vsFTPd 3.0.5)
Name (192.168.10.18:root): student
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> exit
221 Goodbye.

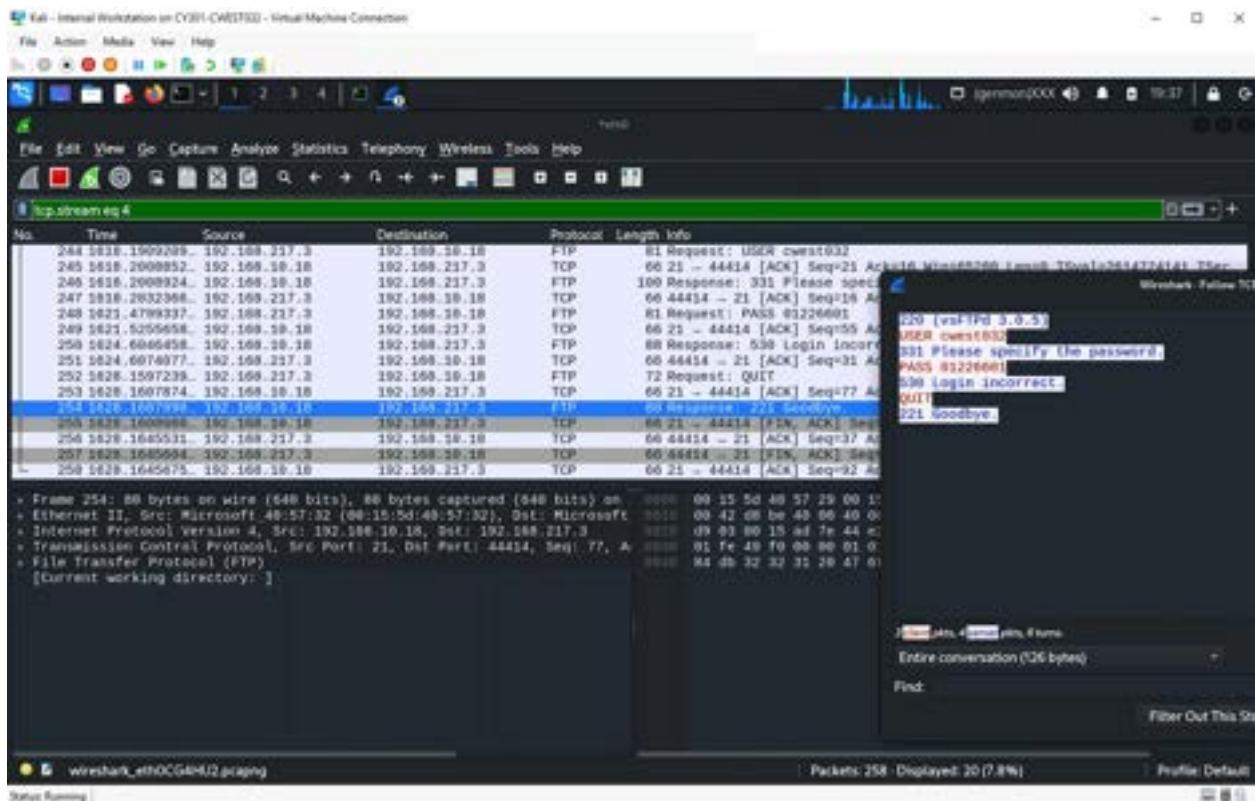
[root@kali ~]#
```

B:



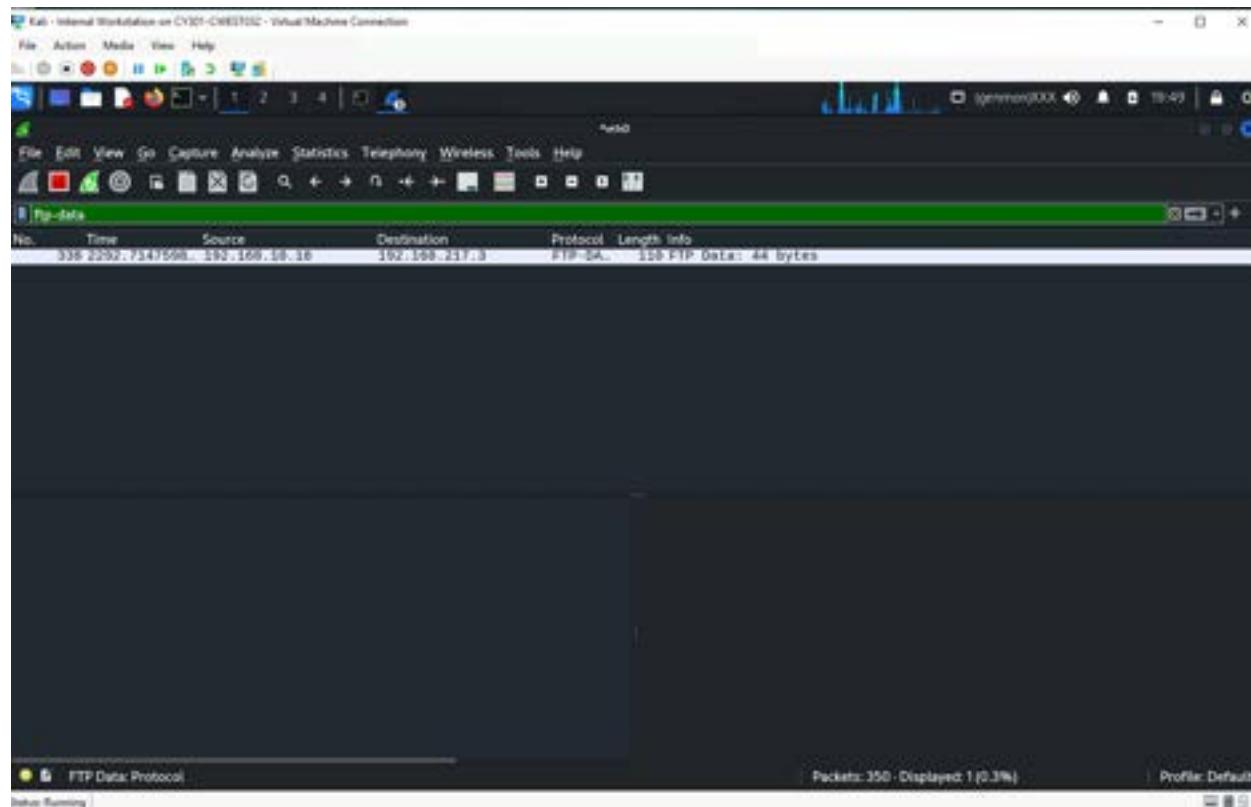
I captured the internal kali packets with wireshark and followed a tcp packet that went from external kalis ip to internal kali sip. Then it showed me what the username and password were for the connection.

C:

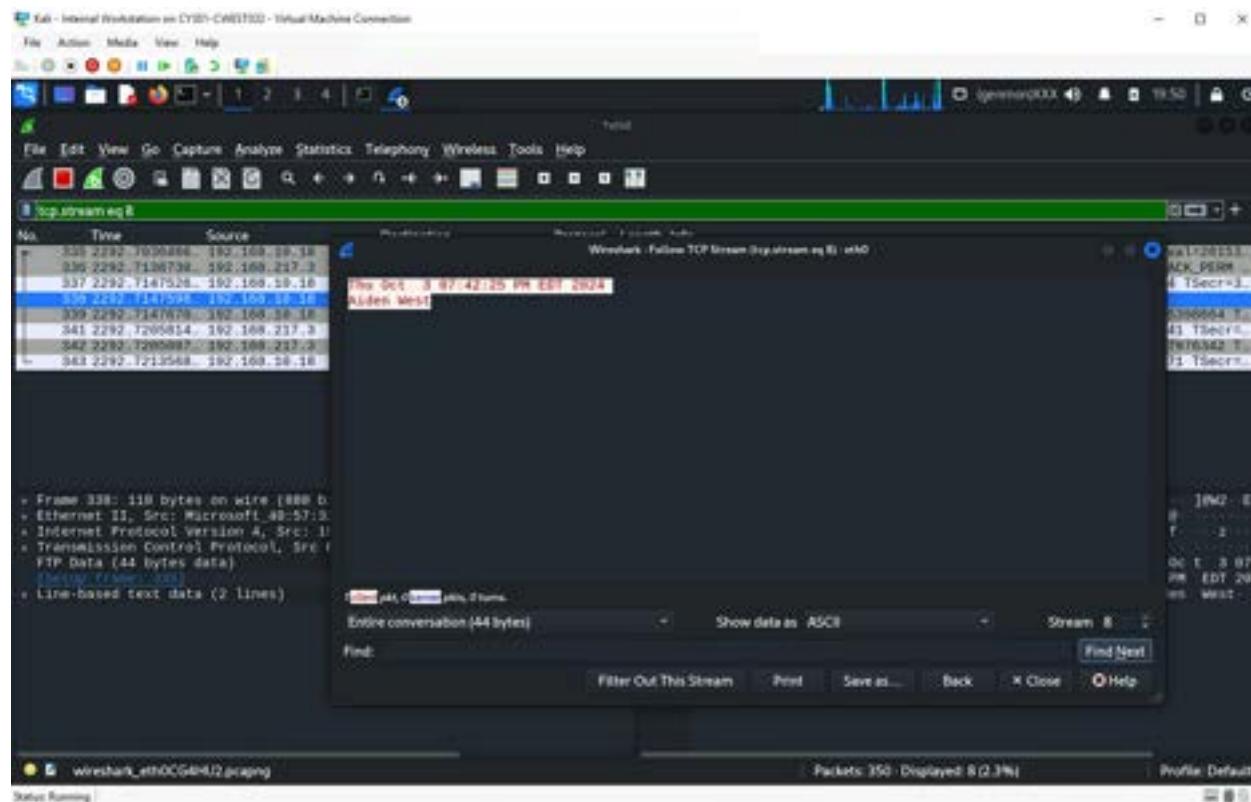


EXTRA CREDIT

1:



2:



3:

