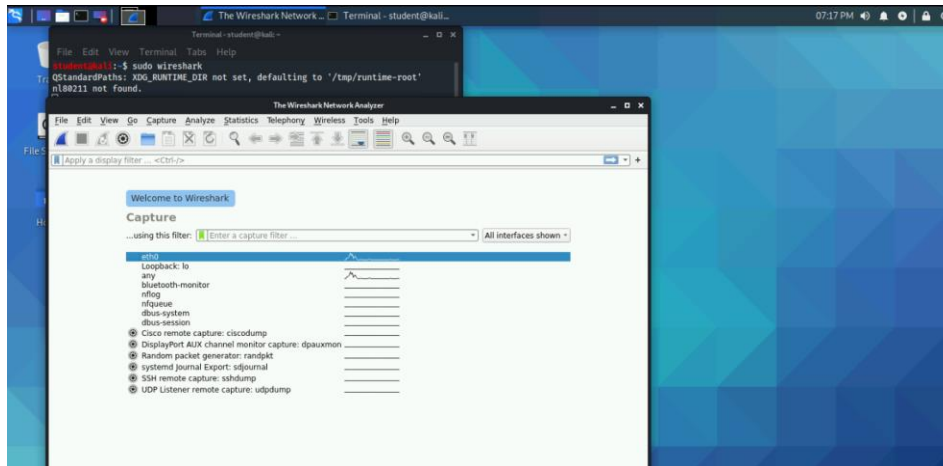


Task Description:

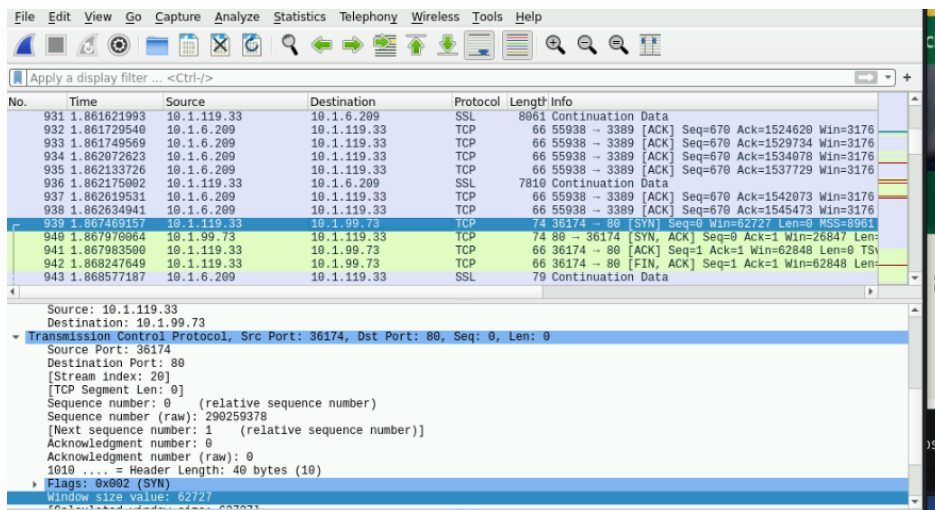
The main objective of this task is to capture and analyze network traffic and log.

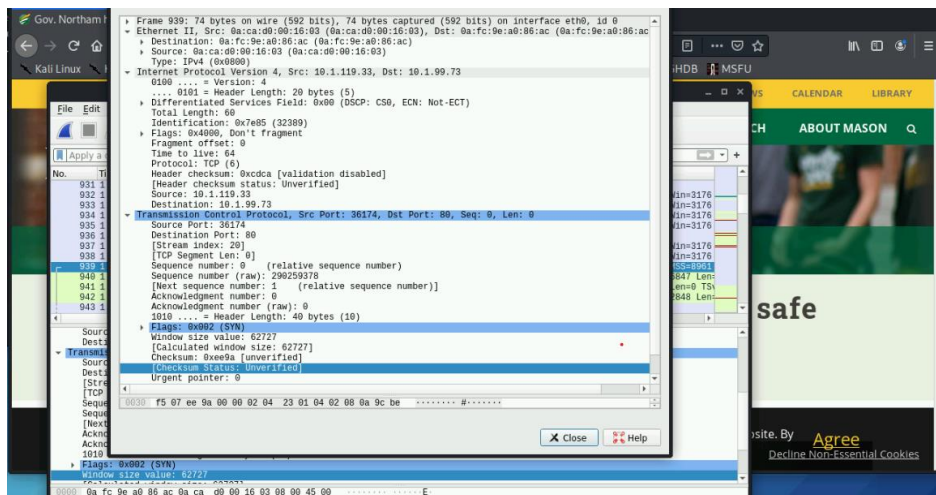
Execution and Screenshots

This lab will require the VACR Kali Linux machine which is equipped with Wireshark. The initial setup of this lab is just turning on the given virtual machine. The machine was already logged in with student user. Then when VM is up and running, we will start Wireshark as follows.



I browsed www2.gmu.edu and clicked on one of the packets which is shown below



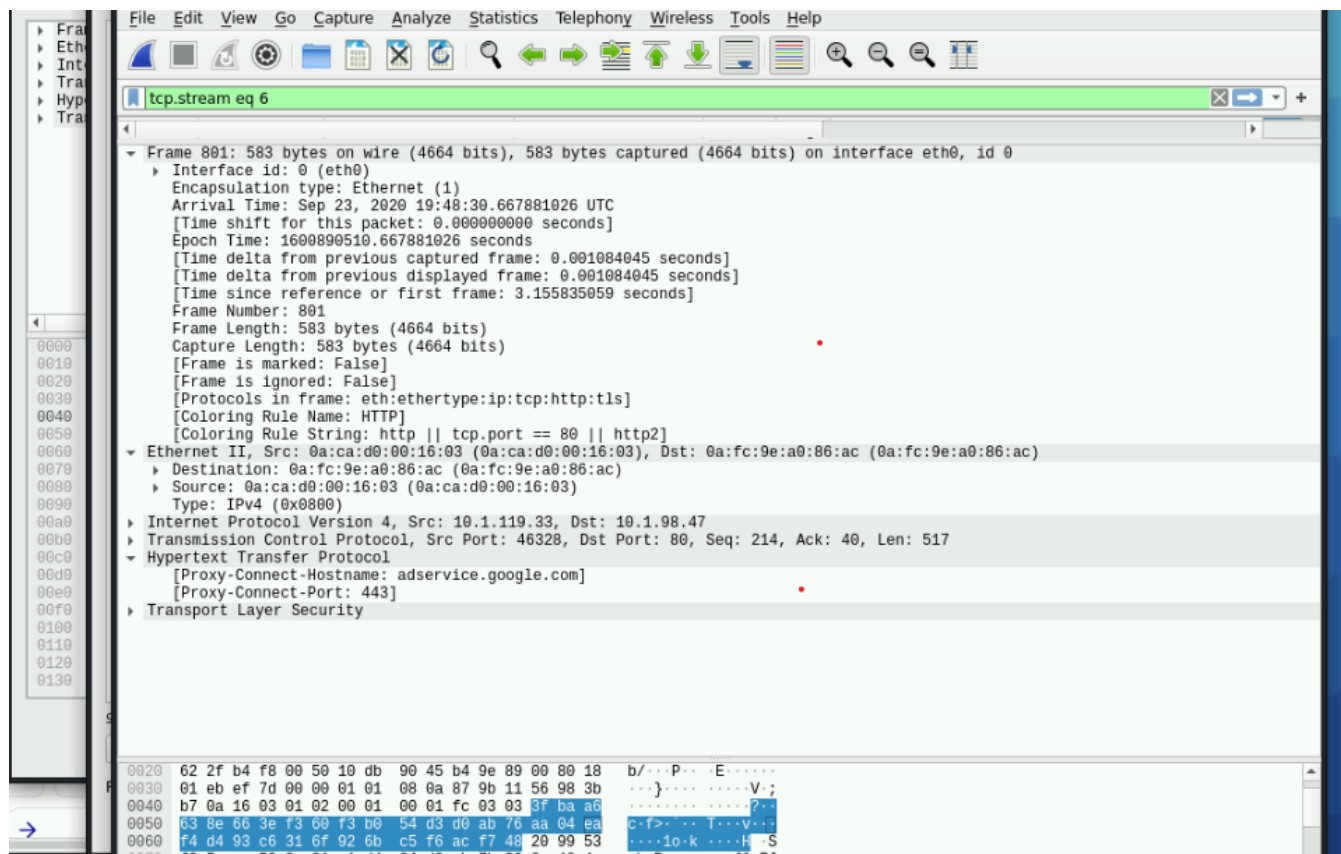


Length of packet: 74 bytes

Source IP:10.1.119.33

Destination IP: 10.1.99.73

Again, I went to google.com and the outcome was as follows:



Observations

Whenever entered any web address in the web browser the packets started coming in until I stopped capturing the packets.

From the above packet capture

- Length of the packet: 583 bytes
- Sender's and receiver's IP addresses: Src: 10.1.119.33, Dst: 10.1.98.47
- Protocol used: TCP
- Source's MAC Address: 0a:ca:d0:00:16:03 (0a:ca:d0:00:16:03)
- Destination's MAC Address: 0a:fc:9e:a0:86:ac (0a:fc:9e:a0:86:ac)

Answers to Questions

The shown Destination IP is found to be Destination: 10.1.98.47.

I think its incorrect because it is hashed and converted to different IP because the ip for google.com ranges from 172.217.0.0-172.217.255.255.

