Experiment 2

Objective: Detecting Suspicious Activity: Analyze network traffic to identify suspicious patterns, such as repeated connection attempts or unusual communication between hosts.

Tool and Package Required:

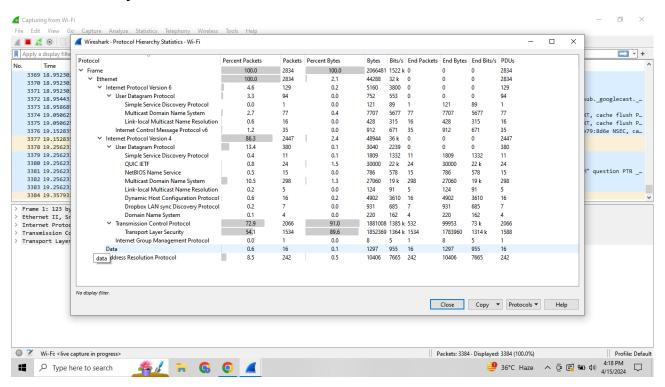
Sec-sick client.pcapng

Aurora.pcap

Arp_poison.pcap

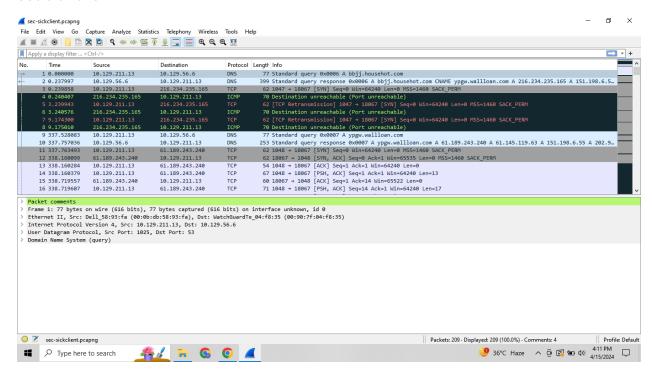
Step 1: Check the normal activity of different protocol on the network by checking protocol hierarchy and find the normal information being transferred under different protocols susch as TCP and UDP.

Protocol heirarchy:



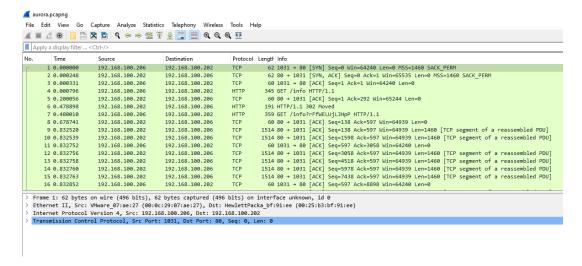
Step 2: Open sec-sickclient.pcapng and observer the suspisious data being trasnferred in TCP protocol and observe the path of the same.

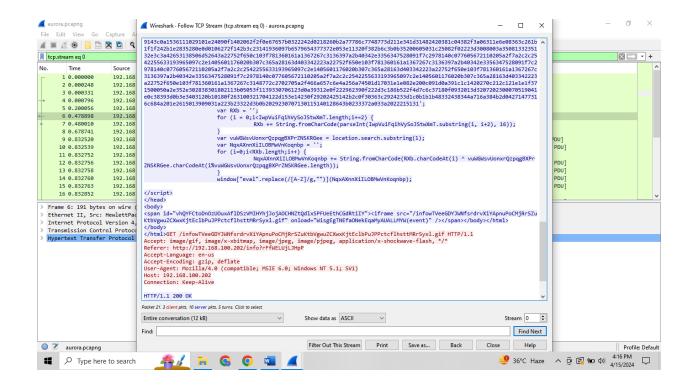
Sec sick client:



Step 3: Load the other package "Aurora.pcap" - Spear Phishing attack and observe the line no 6 for iframe attack

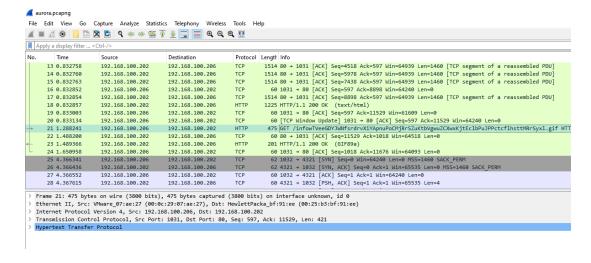
Line 6 I frame attack:





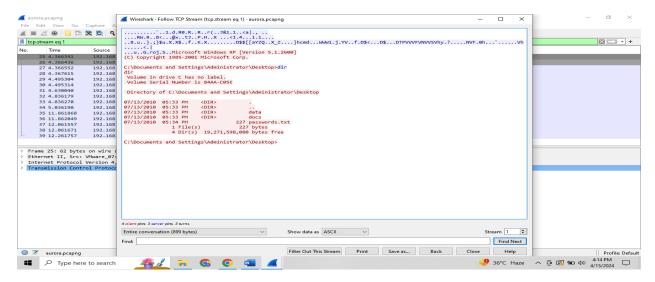
Step 4: Observe line 21 as some gif data is being transferred with unreadable language.

Line 21:



Step 5: Check the TCP data by following TCP stream of the same and observe that the hacker is trying to access the adming control by getting password and other credentials.

Line 25- TCP stream:



Step 6: Observe the suspicious activity by loading the package "arp_poison.pcap" and check that there is man in the middle attack is being happened in line no. 54, 55,56 and 57.

