

Cyber Security Major Project

Network Traffic Analysis Tool

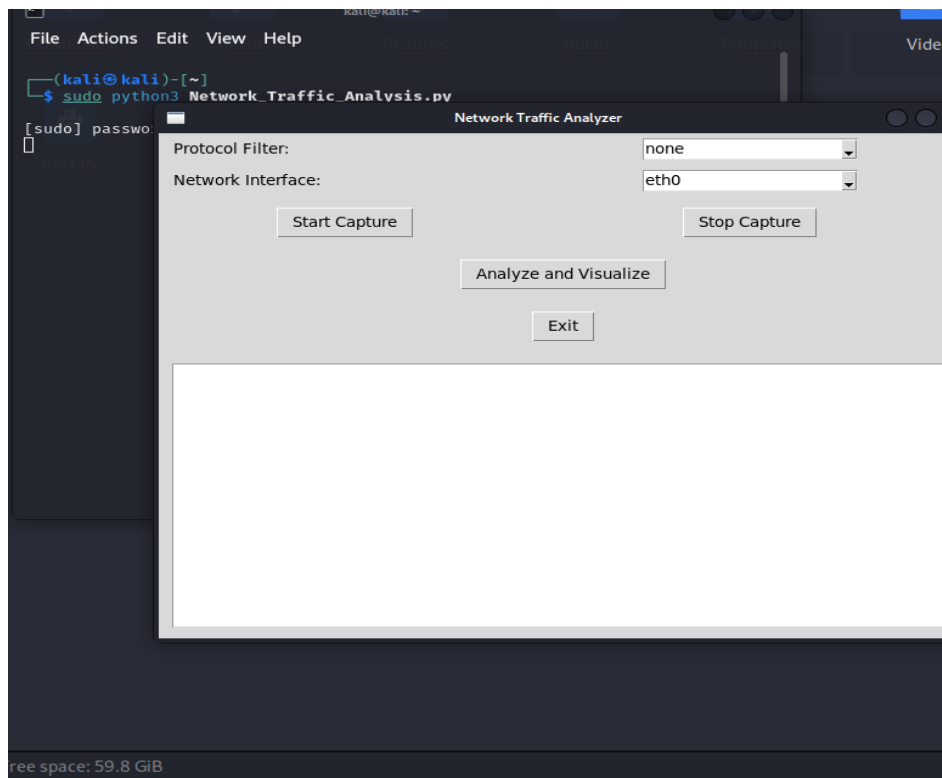
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The project has been made using Python and various Python libraries like tkinter, snappy, etc. to make the gui and analyse traffic.

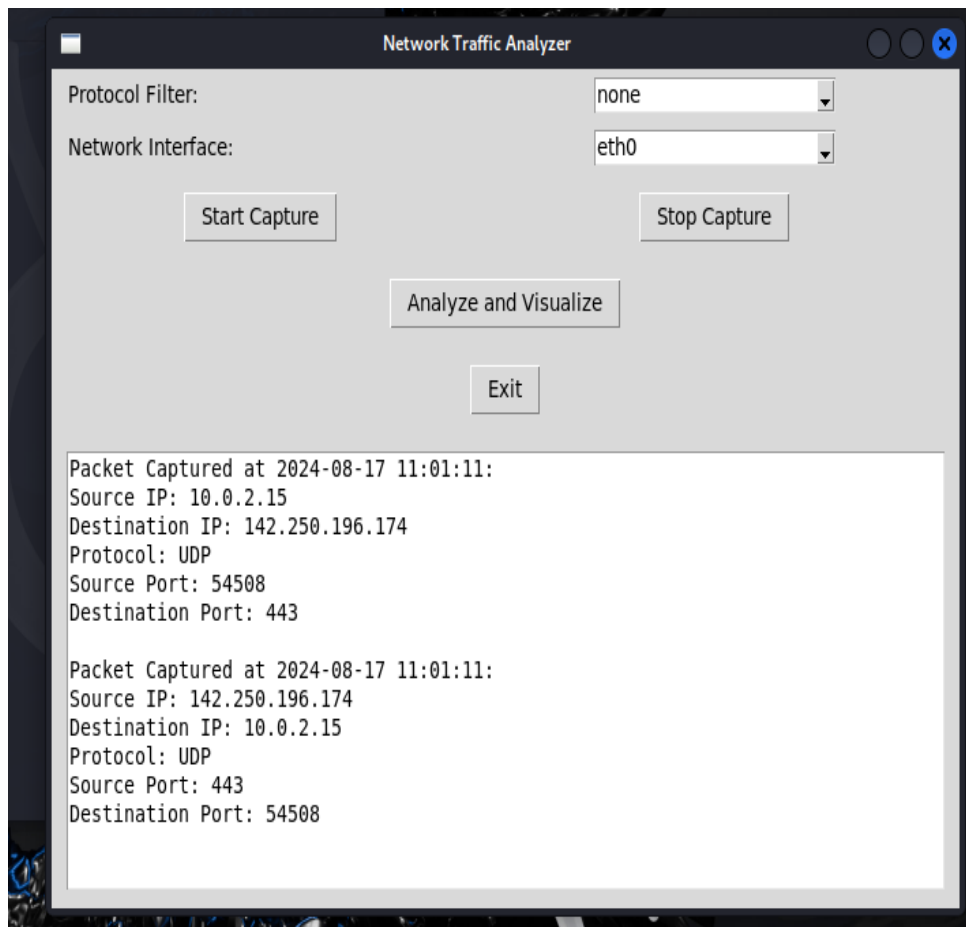
Steps to run the program –

1. Open the terminal in kali Linux.
2. Type “sudo python3 Network_Traffic_Analysis.py”.
3. It will ask for password, enter the password and hit enter.
4. A window will appear as such:

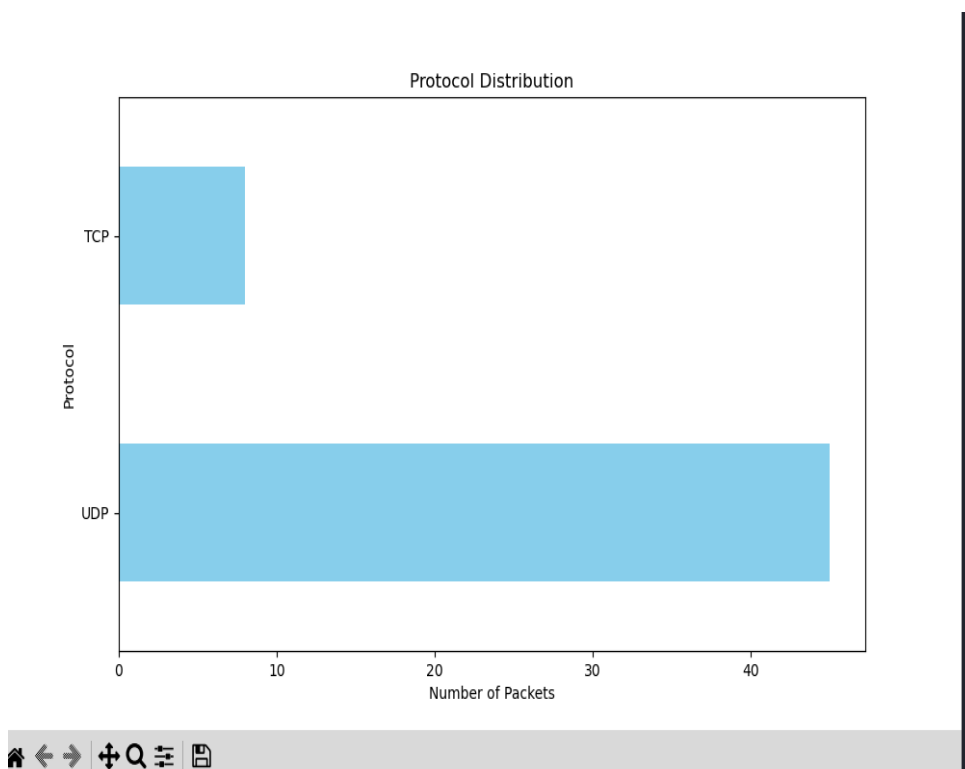
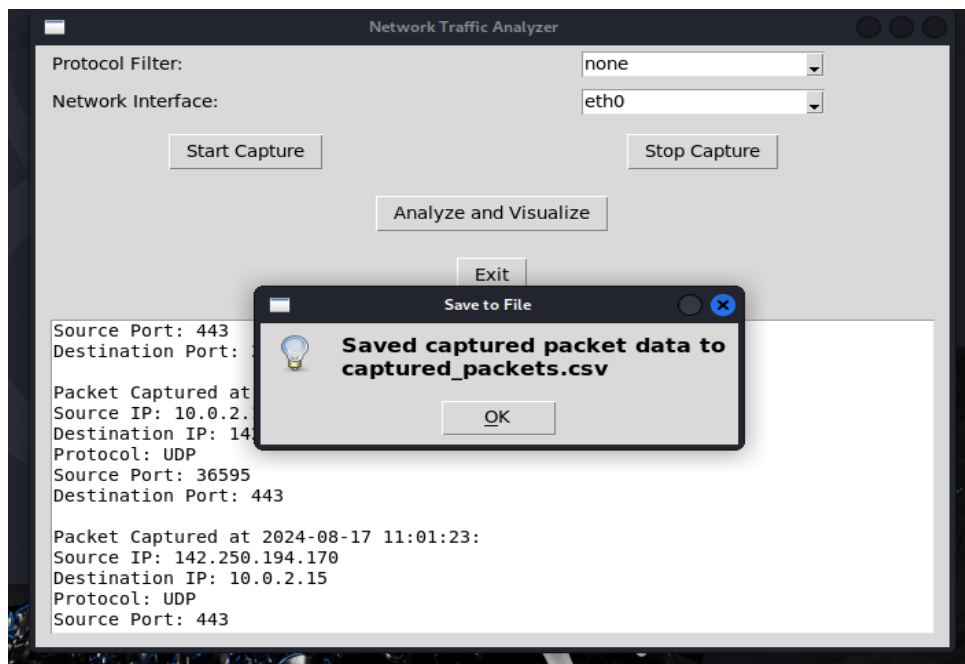


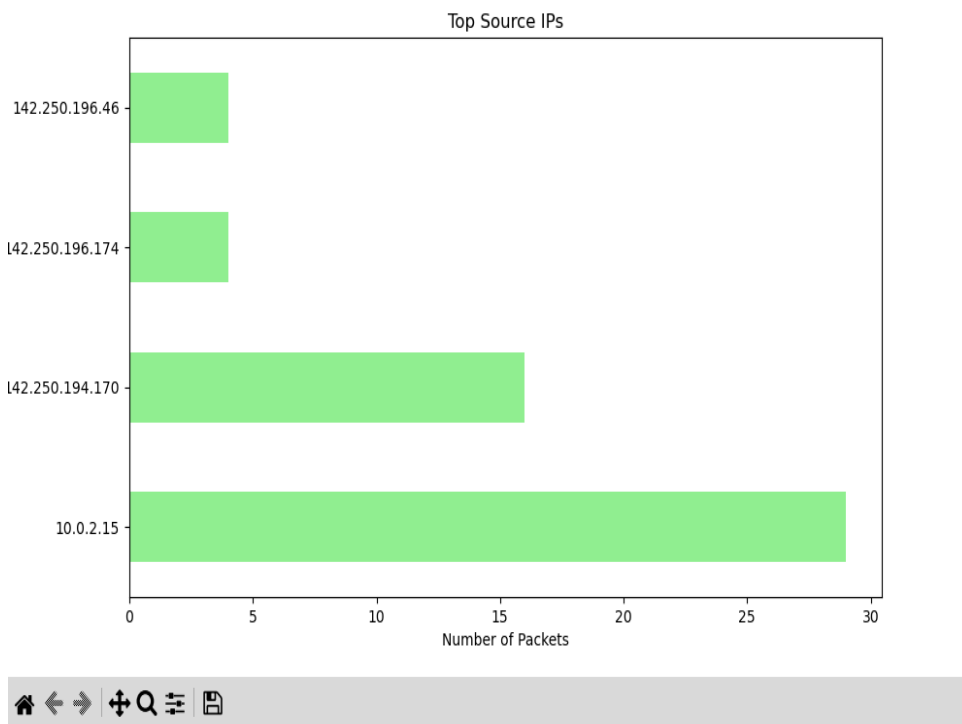
5. Select the required filters and click on the “Start Capture” button.

6. It will start capturing the packets.



7. After you are done capturing click on the "Stop Capture" button.
8. "Analyse and visualise" button will give you a graph of the analysis of the captured packet data and save the output in a csv file called "captured_packets".





~/captured_packets.csv (Read Only) - Mousepad

1	Timestamp	Source IP	Destination IP	Protocol	Source Port	Destination Port	Malicious
2	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
3	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
4	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
5	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
6	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
7	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
8	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
9	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
10	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
11	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
12	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
13	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
14	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
15	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
16	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
17	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
18	2024-08-17 11:01:30	10.0.2.15	142.250.194.170	UDP	36595	443	1
19	2024-08-17 11:01:30	142.250.194.170	10.0.2.15	UDP	443	36595	0
20	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
21	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
22	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
23	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
24	2024-08-17 11:01:30	142.250.196.174	10.0.2.15	UDP	443	54508	0
25	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
26	2024-08-17 11:01:30	142.250.196.174	10.0.2.15	UDP	443	54508	0
27	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
28	2024-08-17 11:01:30	142.250.196.174	10.0.2.15	UDP	443	54508	0
29	2024-08-17 11:01:30	10.0.2.15	142.250.196.174	UDP	54508	443	1
30	2024-08-17 11:01:30	142.250.196.174	10.0.2.15	UDP	443	54508	0
31	2024-08-17 11:01:30	10.0.2.15	142.250.196.46	TCP	57674	443	1
32	2024-08-17 11:01:30	142.250.196.46	10.0.2.15	TCP	443	57674	0

9. Exit button will exit the analyser.

Thank you!