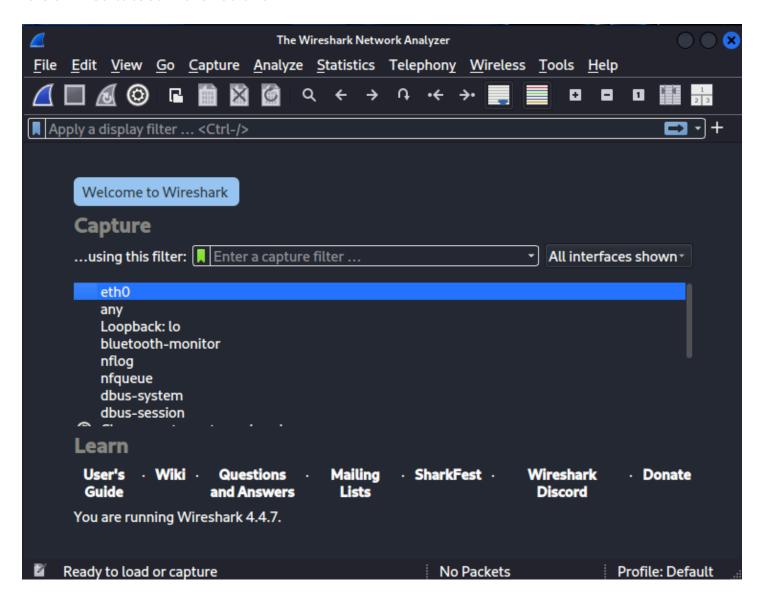
ELEVATE LABS CYBER SECURITY INTERNSHIP

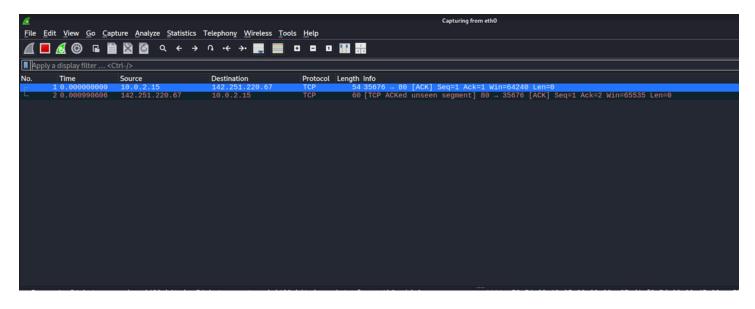
Task-5:

1.Install Wireshark.

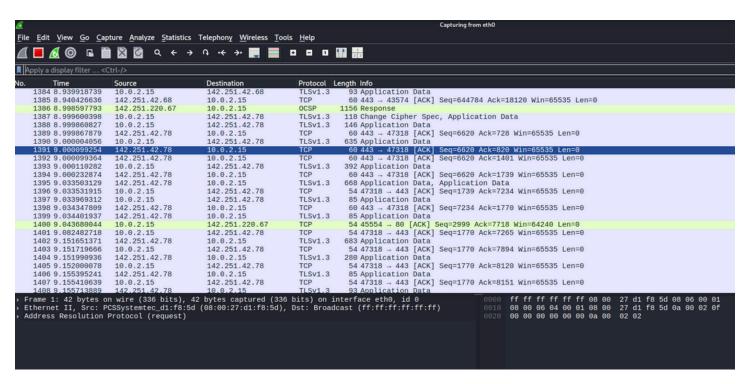
It is an inbuilt tool in the kali linux.



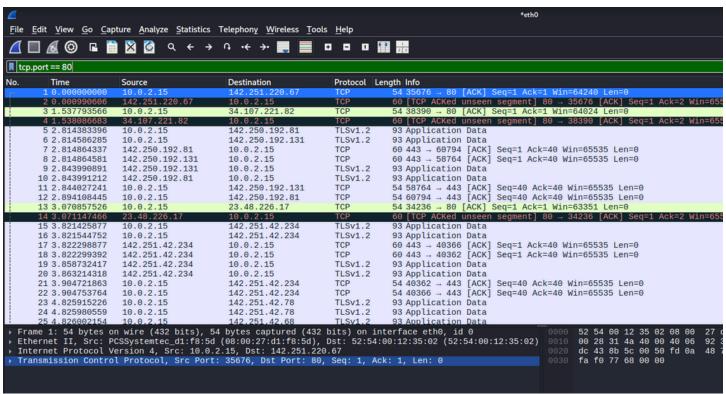
2.Start capturing on your active network interface.



3.Browse a website or ping a server to generate traffic.



- 4. Stop capture after a minute.
- 5. Filter captured packets by protocol.



thernet II, Src: PCSSystemtec_d1:f8:5d (08:00:27:d1:f8:5d), Dst: 52:54:00:12:35:02 (52:54:00:12:35:02) 00:00 00 3f eb 28 40 00 40 11 85 63 00 00 00 0f ac 11 ? (0 0	Edit View Go Captur										
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	tls				
No.	Time	Source	Destination	Protocol L	ength Info
	5 2.814383396	10.0.2.15	142.250.192.81	TLSv1.2	93 Application Data
	6 2.814586285	10.0.2.15	142.250.192.131	TLSv1.2	93 Application Data
	9 2.843990891	142.250.192.131	10.0.2.15	TLSv1.2	93 Application Data
	10 2.843991212	142.250.192.81	10.0.2.15	TLSv1.2	93 Application Data
	15 3.821425877	10.0.2.15	142.251.42.234	TLSv1.2	93 Application Data
	16 3.821544752	10.0.2.15	142.251.42.234	TLSv1.2	93 Application Data
	19 3.858732417	142.251.42.234	10.0.2.15	TLSv1.2	93 Application Data
	20 3.863214318	142.251.42.234	10.0.2.15	TLSv1.2	93 Application Data
	23 4.825915226	10.0.2.15	142.251.42.78	TLSv1.2	93 Application Data
	24 4.825980559	10.0.2.15	142.251.42.78	TLSv1.2	93 Application Data
	25 4.826002154	10.0.2.15	142.251.42.68	TLSv1.2	93 Application Data
	29 4.847120846	142.251.42.78	10.0.2.15	TLSv1.2	93 Application Data
	30 4.860044111	142.251.42.78	10.0.2.15	TLSv1.2	93 Application Data
	31 4.869139626	142.251.42.68	10.0.2.15	TLSv1.2	93 Application Data
	59 24.946457694	10.0.2.15	34.49.51.44	TLSv1.2	93 Application Data
	60 24.946721116	10.0.2.15	151.101.129.91	TLSv1.2	100 Application Data
	61 24.946777490	10.0.2.15	34.160.144.191	TLSv1.2	100 Application Data
	62 24.946825427	10.0.2.15	34.149.100.209	TLSv1.2	93 Application Data
	63 24.946877619	10.0.2.15	35.190.72.216	TLSv1.2	93 Application Data
	69 24.962765186	35.190.72.216	10.0.2.15	TLSv1.2	93 Application Data
	70 24.968974784	34.49.51.44	10.0.2.15	TLSv1.2	93 Application Data
	71 24.969672710	34.160.144.191	10.0.2.15	TLSv1.2	100 Application Data
	72 24.969672938	34.149.100.209	10.0.2.15	TLSv1.2	93 Application Data
	73 24.975187086	151.101.129.91	10.0.2.15	TLSv1.2	100 Application Data

6. Identify at least 3 different protocols in the capture.

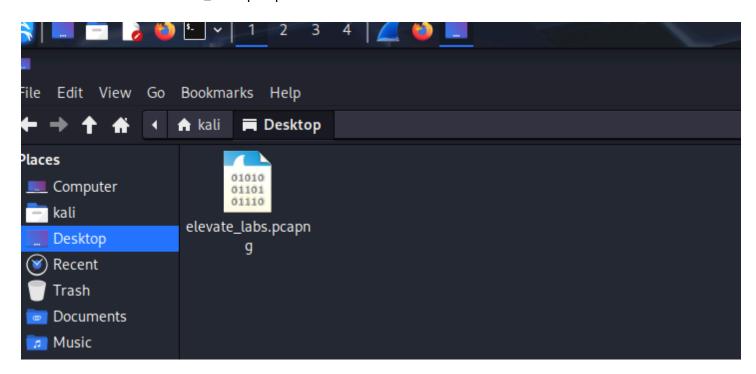
→ TCP

→ UDP

→ TLS

7. Export the capture as a .pcap file.

saved the file as elevate_labs.pcap



8. Summarize your findings and packet details.

The Wireshark packet capture analysis displays a network session featuring TCP, TLSv1.2, and Application Data packets, with communication between a local source IP and an external destination IP, suggesting a secure data exchange, possibly related to web or application traffic. Packet sizes vary from a few dozen to over a hundred bytes, with many including sequence and acknowledgment numbers, some indicating control packets with no data payload. A highlighted packet details a TCP segment with specific source and destination ports, a sequence number, an acknowledgment number, and a modest data payload, utilizing TLSv1.2 for encryption, indicative of a typical secure session with a combination of control and data transmissions.