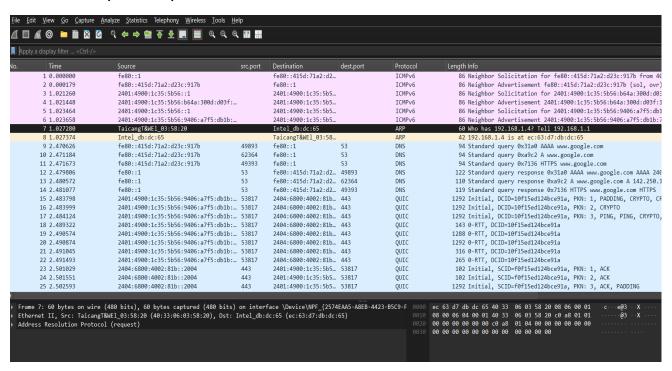
Task 5: Capture and Analyse Network Traffic Using Wireshark.

Objective: Capture live network packets and identify basic protocols and traffic types.

Tools: Wireshark (free).

Deliverables: A packet capture (.pcap) file and a short report of protocols identified.

1. All Captured packets:

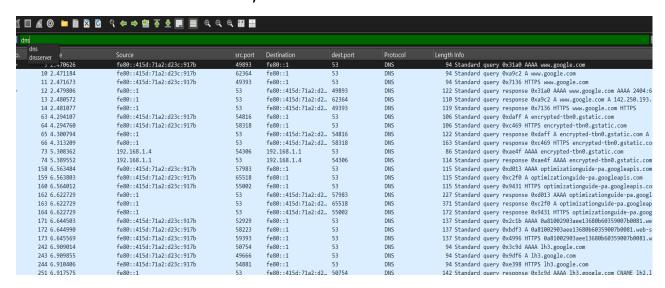


2. Filtering captured packets based on protocols:

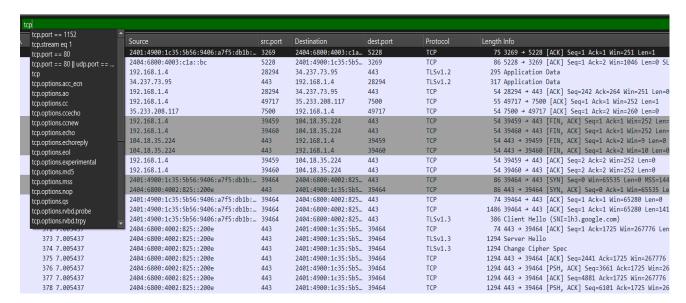
a. ARP: Address Resolution Protocol:

ll arp						
lo. Time	Source	src.port	Destination	dest.port	Protocol	Length Info
7 1.027280	TaicangT&WEl_03:58:20		Intel_db:dc:65		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
8 1.027374	Intel_db:dc:65		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65
156 6.212194	TaicangT&WEl_03:58:20		Intel_db:dc:65		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
157 6.212247	<pre>Intel_db:dc:65</pre>		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65
4152 11.236839	TaicangT&WEl_03:58:20		Intel_db:dc:65		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
4153 11.236890	<pre>Intel_db:dc:65</pre>		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65
5698 15.991984	TaicangT&WEl_03:58:20		Intel_db:dc:65		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
5699 15.992027	<pre>Intel_db:dc:65</pre>		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65
5876 20.816975	TaicangT&WEl_03:58:20		Intel_db:dc:65		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
5877 20.817007	<pre>Intel_db:dc:65</pre>		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65
6326 26.676004	TaicangT&WEl_03:58:20		Intel_db:dc:65		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
6327 26.676071	Intel_db:dc:65		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65
6373 30.772217	TaicangT&WEl_03:58:20		<pre>Intel_db:dc:65</pre>		ARP	60 Who has 192.168.1.4? Tell 192.168.1.1
6374 30.772286	Intel_db:dc:65		TaicangT&WEl_03:58		ARP	42 192.168.1.4 is at ec:63:d7:db:dc:65

b. DNS: Domain Name System



c. TCP: Transmission Control Protocol



Findings:

- a. Arp was used to resolve find mac address related to ip address.
- b. DNS was used to resolve the ip address related to the domain.
- TCP was used to establish a connection between client and server.