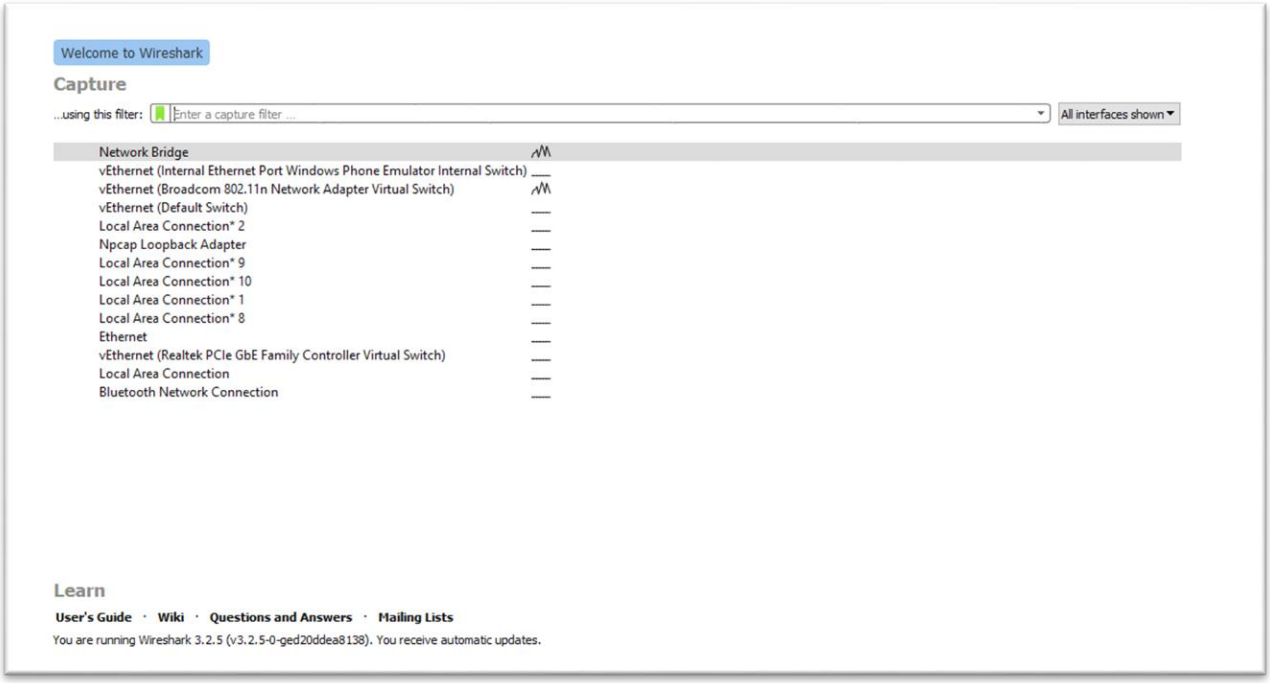
TASK 2

Capture the packets using Wireshark

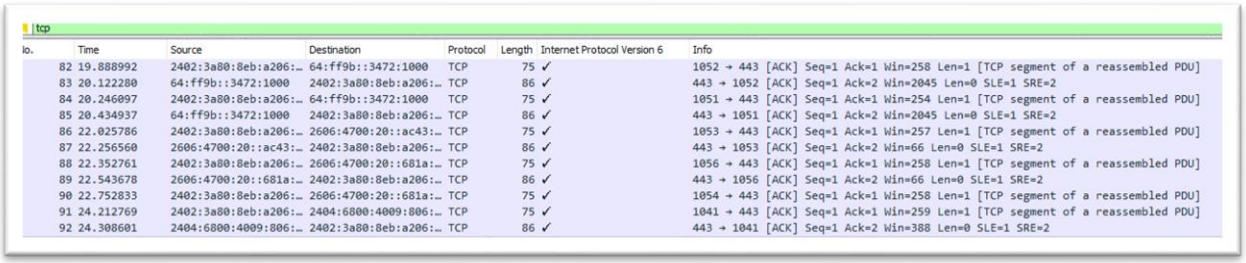
Welcome Screen of Wireshark

- Select Interface & start Capturing Packets



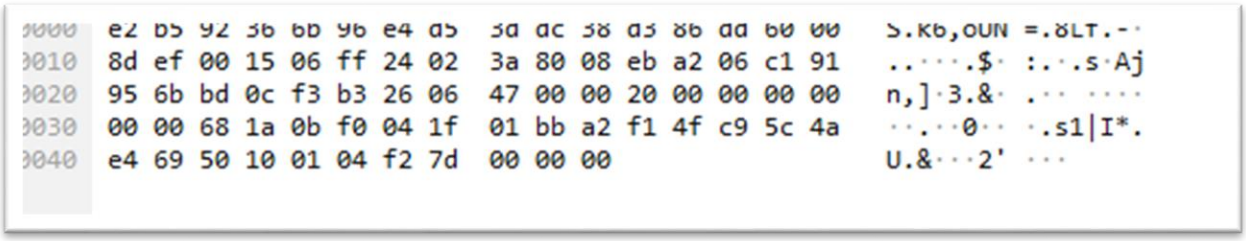
TCP Packets List

- Use capture filter `tcp` to capture only TCP packets



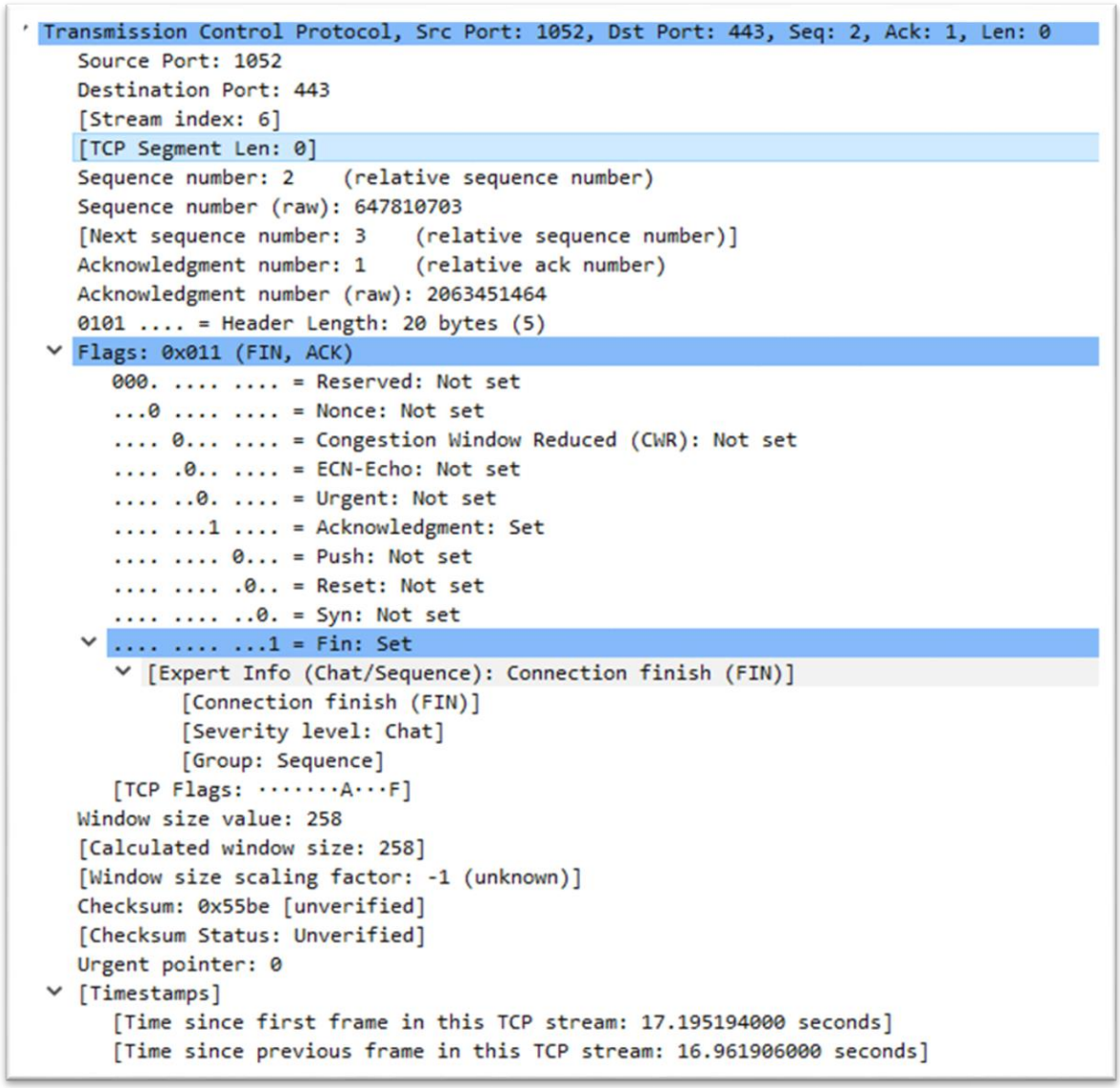
Packet Information

Packet Information in hexadecimal



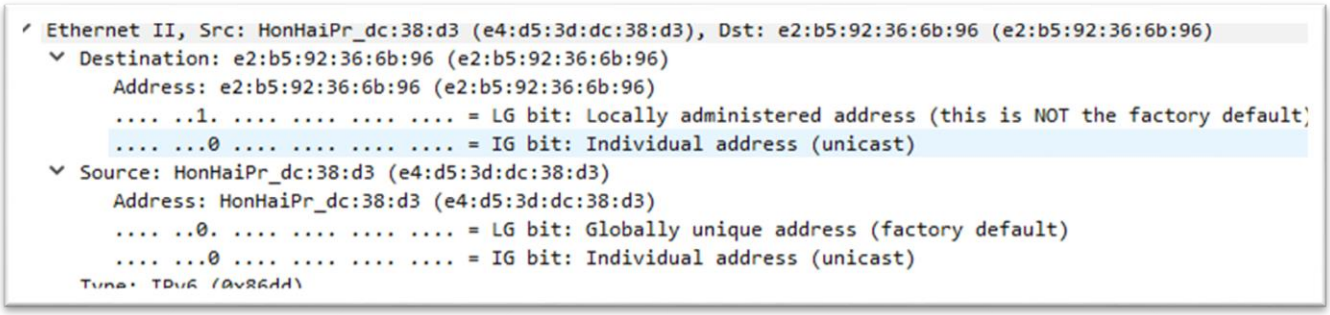
Observe the TCP packets and inside that observe the headers from Transport layer, Network layer and Data link layer.

Transport Layer Headers



Network Layer Headers

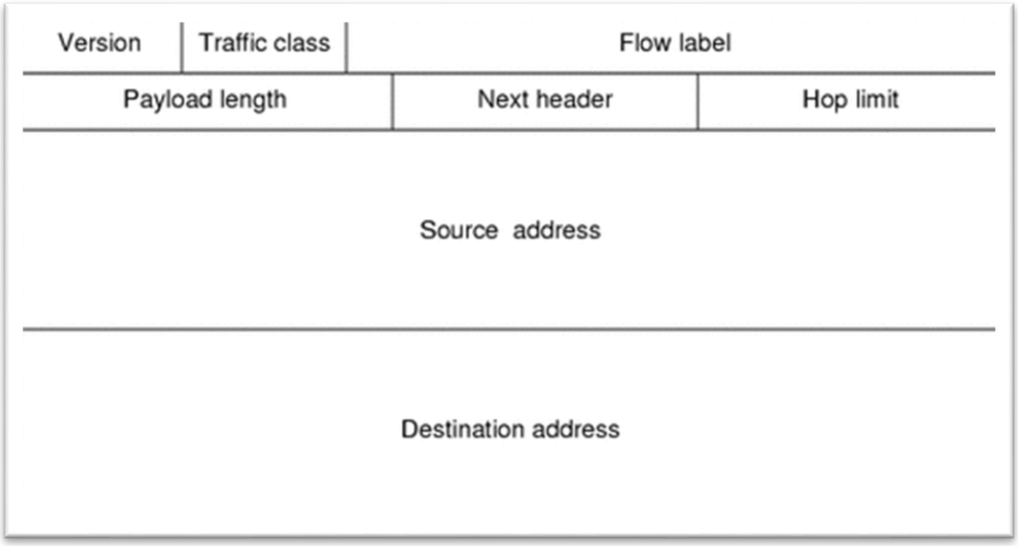
Data Link Layer Headers



Observe what is inside the IP header.

IPV6 Header

- Format



- IPV6 Header Information

```
Internet Protocol Version 6, Src: 2402:3a80:8eb:a206:c191:956b:bd0c:f3b3, Dst: 64:ff9b::3472:1000
    0110 .... = Version: 6
  .... 0000 0000 .... .... .... .... .... = Traffic Class: 0x00 (DSCP: CS0, ECN: Not-ECT)
      .... 0000 00.. .... .... .... .... .... = Differentiated Services Codepoint: Default (0)
      .... .... ..00 .... .... .... .... .... = Explicit Congestion Notification: Not ECN-Capable Transport (0)
    .... .... .... 0010 0101 1000 0010 1101 = Flow Label: 0x2582d
    Payload Length: 20
    Next Header: TCP (6)
    Hop Limit: 255
    Source: 2402:3a80:8eb:a206:c191:956b:bd0c:f3b3
    Destination: 64:ff9b::3472:1000
    [Destination Embedded IPv4: 52.114.16.0]
```