COMPUTER NETWORKS LAB

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SECTION: BS(CS)-5B
LAB NO: 5 UDP

Q1:

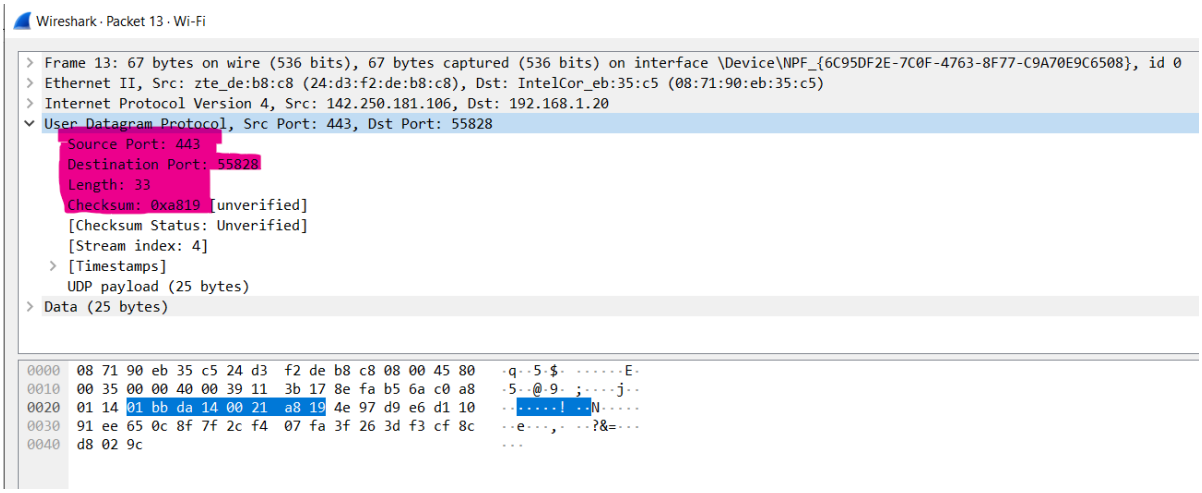
There are 4 Fields in UDP header:

• Source Port

• Destination Port

• Length

• Checksum



Q2:

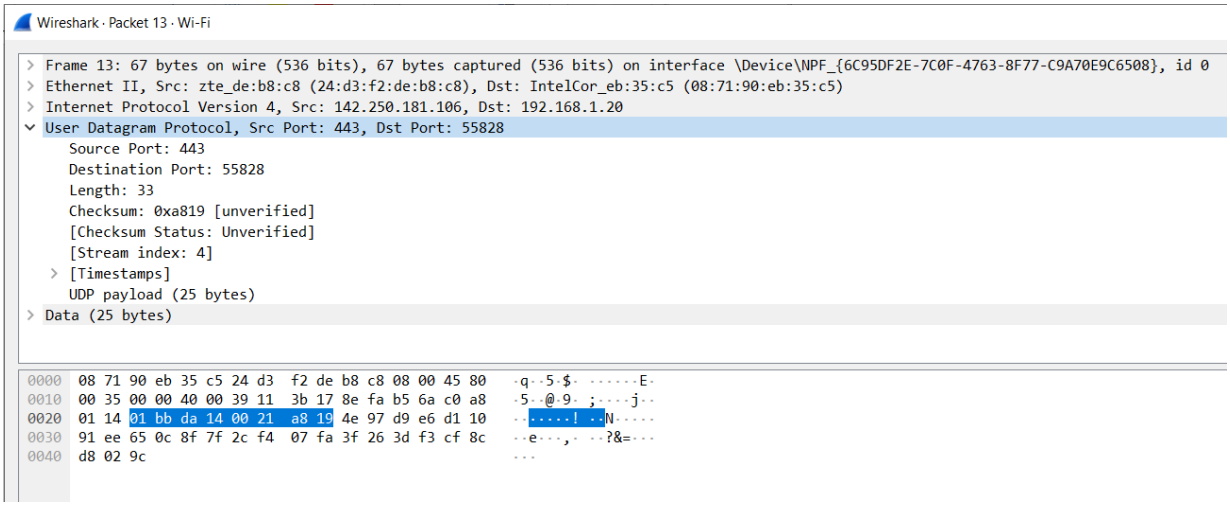
UDP header is 16 hexadecimal characters long; 16 hex = 64 bits = 8 bytes.

• Source Port (16bit or 8bytes)

• Destination Port (16bit or 8bytes)

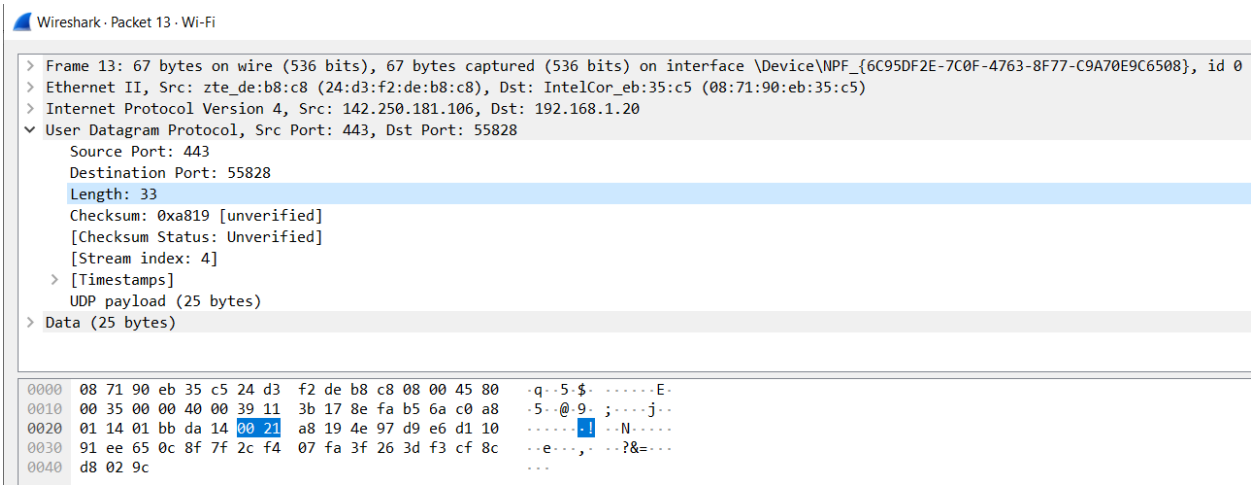
• Length (16bit or 8bytes)

• Checksum (16bit or 8bytes)



Q3:

Length field shows the size of the entire segment “header+payload”. We do not need to specify header length separately because all UDP headers are of the same size.
In my packet length = 33
So, payload => 33 - 8 = 25 bytes
Header = 8 bytes



Q4:

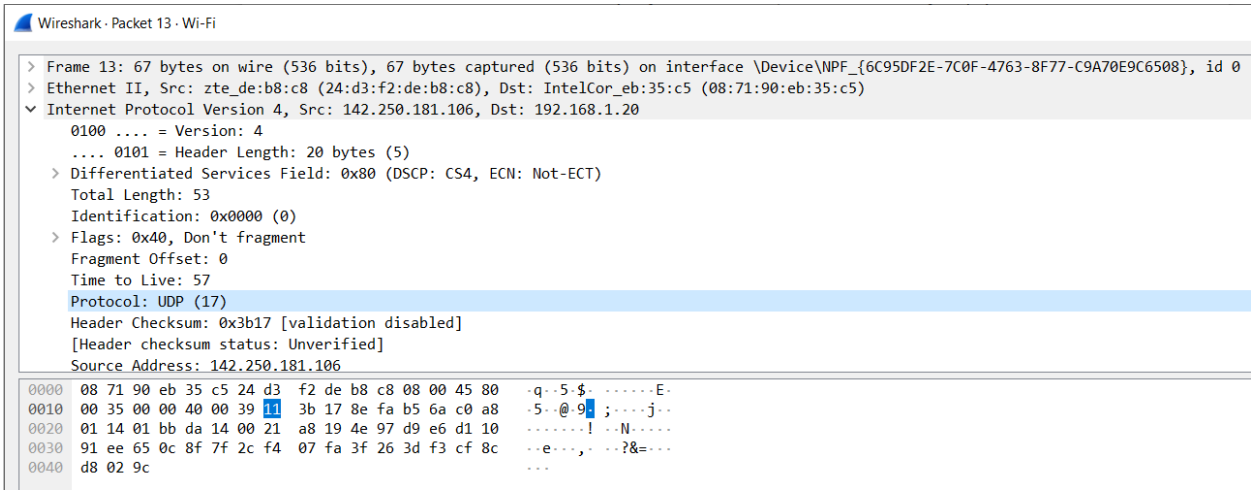
Maximum size of UDP payload is (2^16)-1, We also need to deduct extra 8 bytes for the header.
So, the maximum size of the payload can be 65527 bytes.

Q5:

Largest possible port number is (2^16)-1 => 65535 bytes.

Q6:

Protocol number for UDP is 11 in hexadecimal or 17 in decimal.



Q7:

As you can see below, the source port in 1st packet has become destination port in 2nd packet and the destination port in 1st packet has become source port in 2nd packet also same with Ips.