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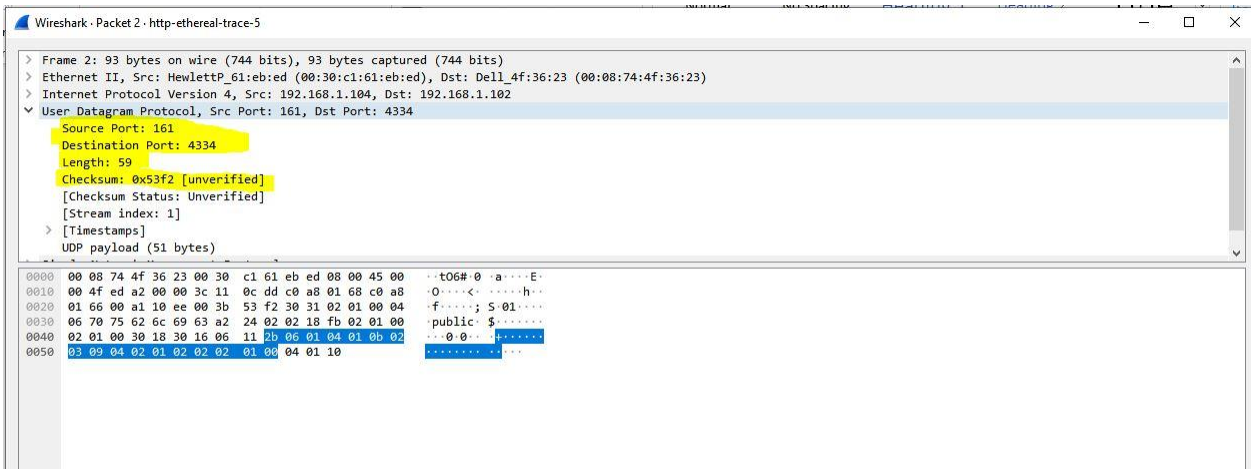
Roll no: 19P-0061

Section: 5-B

UDP TASKS

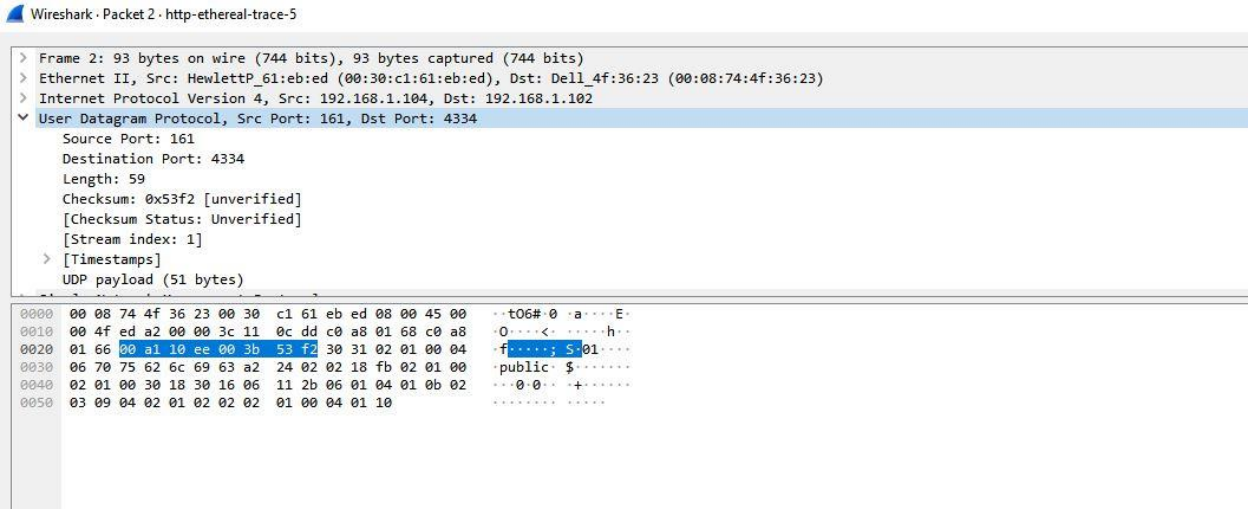
1. 4 Fields in UDP header:

- Source Port
- Destination Port
- Length
- Checksum



2.

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

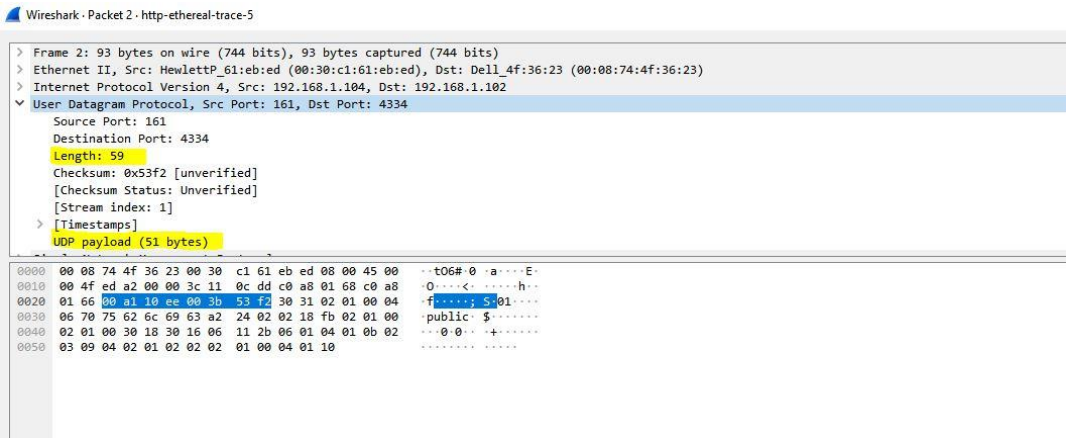


3.

Value in the length field is size in bytes of the entire segment i.e., ***"header+payload"***.

We do not need to specify header length separately because all UDP headers are of the same size.

My captured packet shows length = 59 and payload = 51; 59 - 8 = 51 bytes.



4.

Max size of UDP payload is

(2^16)-1

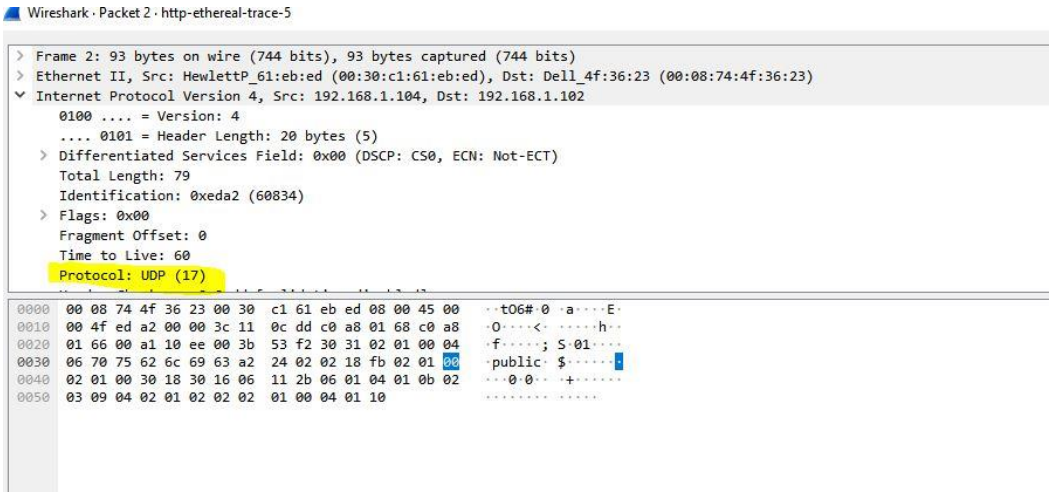
We also need to deduct an extra 8 bytes for the header. So, the maximum size of the payload can be 65527 bytes.

5.

The largest possible port number is ***(2^16)-1*** which is equal to ***65535 bytes***.

6.

The protocol number for UDP is 11 in hexadecimal which is equal to 17 in decimal.

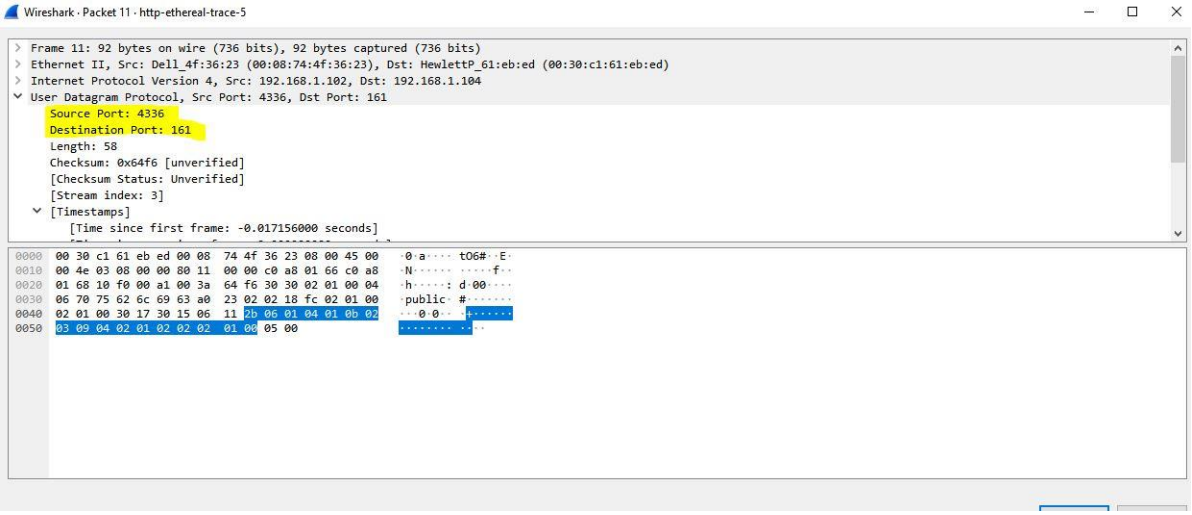


7.

Packet 1

Source port:4336

Destination Port:161



Packet 2

Source Port:161

Destination Port:4337