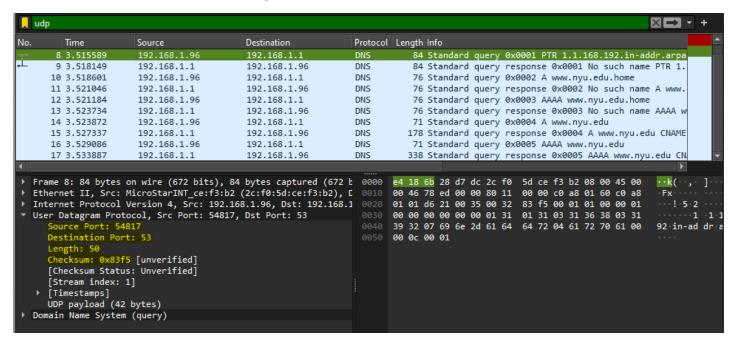
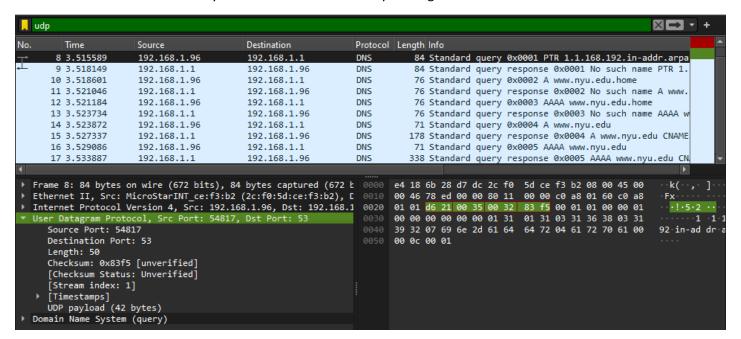


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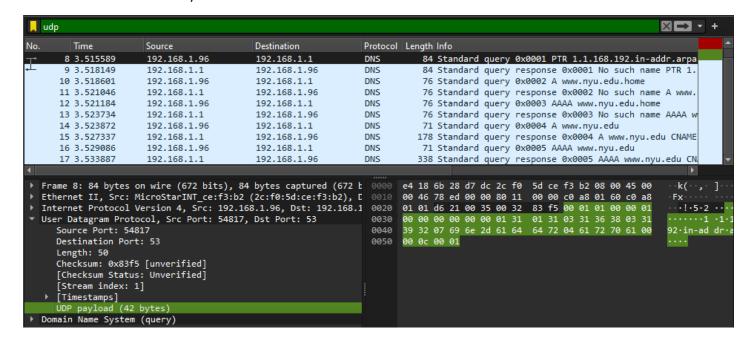
- 1.1. Packet Number: 8
- 1.2. The type of application-layer payload or protocol message : DNS.
- 1.3. The header contains only 4 fields.
- 1.4. Source Port, Destination Port, Length, Checksum.



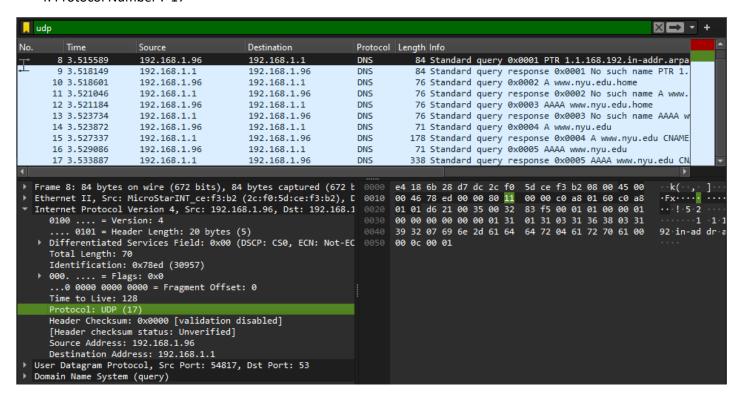
2. Each of header fields is 2 bytes. Total UDP header is 8 bytes long.



3. $(2^{16} - 1)$ – Header Length = Max Payload Size 65535 - 8 = 65527 bytes.



4. Protocol Number: 17



5.1. First UDP Segment Packet Number: 8

5.2. Second UDP Segment Packet Number: 9

The source port of a UDP packet sent by the host corresponds to the destination port of a reply packet, and vice versa.

