## How many bytes is UDP header? What are the different fields? How are the field values set?

Verify in Wireshark.

UDP header is of 8 bytes

The different fields are

- 1. Source Port (2 bytes): It is the port of the sending application
- 2. Destination Port (2 bytes): It is the port number of the receiving application.
- 3. Length (2 bytes): It is the length of the UDP header and payload
- 4. Checksum (2 bytes): It is the error-checking value for the header and data

## **Checksum Calculation:**

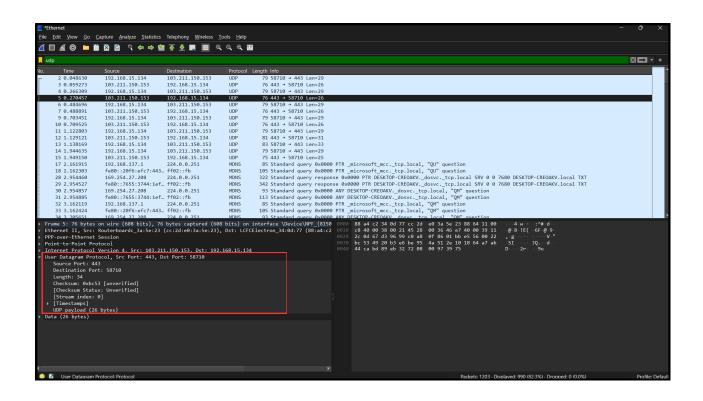
- 1. Extract header fields.
- 2. Compute the sum of 16-bit words.
- 3. Add overflow if necessary.
- 4. Take the one's complement of the result.

## **Checksum Verificaiton:**

• Calcualate the checksum in the receiving end, including both header and the transmitted checksum, if the result if 0xFFFF, header is correct.

Source Port	Destination Port
(2 bytes)	(2 bytes)
Length	Checksum
(2 bytes)	(2 bytes)

**UDP** Header



```
▼ User Datagram Protocol, Src Port: 5353, Dst Port: 5353
Source Port: 5353
Destination Port: 5353
Length: 51
Checksum: 0x1aa7 [unverified]
[Checksum Status: Unverified]
[Stream index: 2]
[Timestamps]
UDP payload (43 bytes)
```