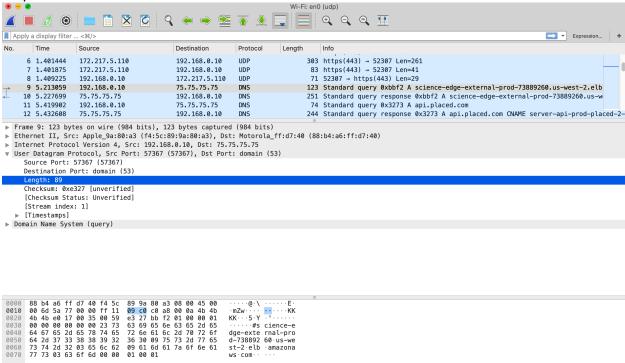
Step3:



1. What does the Length field include? The UDP payload, UDP payload and UDP header, or UDP payload, UDP header, and lower layer headers? UDP payload and UDP header

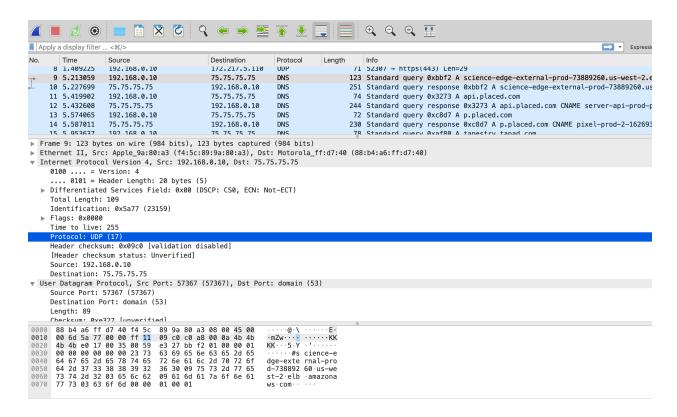
Packets: 38 · Displayed: 38 (100.0%) · Dropped: 0 (0.0%) Profile: Default

- How long in bits is the UDP checksum?
- 3. How long in bytes is the entire UDP header?8bytes

Step4:

Length (udp.length), 2 bytes

1. Give the value of the IP Protocol field that identifies the upper layer protocol as UDP.



2. Examine the UDP messages and give the destination IP addresses that are used when your computer is neither the source IP address nor the destination IP address. (If you have only your computer as the source or destination IP address then you may use the supplied trace.)

```
∼$ ifconfig
lo0: flags=8049<UP,L00PBACK,RUNNING,MULTICAST> mtu 16384 options=1203<RXCSUM,TXCSUM,TXSTATUS,SW_TIMESTAMP>
        inet 127.0.0.1 netmask 0xff000000
        inet6 ::1 prefixlen 128
inet6 fe80::1%lo0 prefixlen 64 scopeid 0x1
nd6 options=201PERFORMNUD, DAD>
gif0: flags=8010<POINTOPOINT,MULTICAST> mtu 1280
stf0: flags=0<> mtu 1280
XHC20: flags=0<> mtu 0
en0: flags=8863<UP, BROADCAST, SMART, RUNNING, SIMPLEX, MULTICAST> mtu 1500
        options=400<CHANNEL_IO>
        ether f4:5c:89:9a:80:a3
        inet 192.168.0.10 netmask 0xffffff00 broadcast 192.168.0.255
        media: autoselect
        status: active
p2p0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 2304
        options=400<CHANNEL_IO>
        ether 06:5c:89:9a:80:a3
        media: autoselect
        status: inactive
awdl0: flags=8943<UP, BROADCAST, RUNNING, PROMISC, SIMPLEX, MULTICAST> mtu 1484
        options=400<CHANNEL_IO>
        ether 06:ea:87:75:33:21
        inet6 fe80::4ea:87ff:fe75:3321%awdl0 prefixlen 64 scopeid 0x7
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
llw0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        options=400<CHANNEL_IO>
        ether 06:ea:87:75:33:21
        inet6 fe80::4ea:87ff:fe75:3321%llw0 prefixlen 64 scopeid 0x8
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
en1: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1500
        options=460<TS04,TS06,CHANNEL_IO>
        ether 82:13:12:68:f3:80
        media: autoselect <full-duplex>
        status: inactive
en2: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1500
        options=460<TS04,TS06,CHANNEL_IO>
        ether 82:13:12:68:f3:81
         media: autoselect <full-duplex>
```

3. What is the typical size of UDP messages in your trace?

Below 200bytes