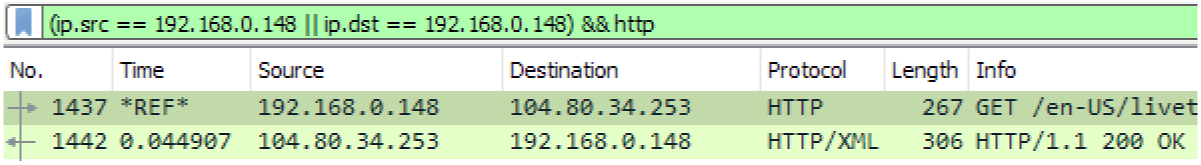
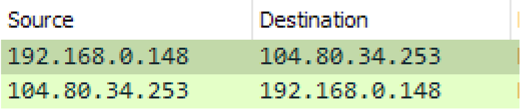
1. MDNS, DHCPv6, ARP, SSDP, TLSv1.2, TCP, UDP, NBNS, DNS
2. 0.044907 seconds. Used the default time display setting and marked the GET message as the reference.



(ip.src == 192.168.0.148 || ip.dst == 192.168.0.148) && http

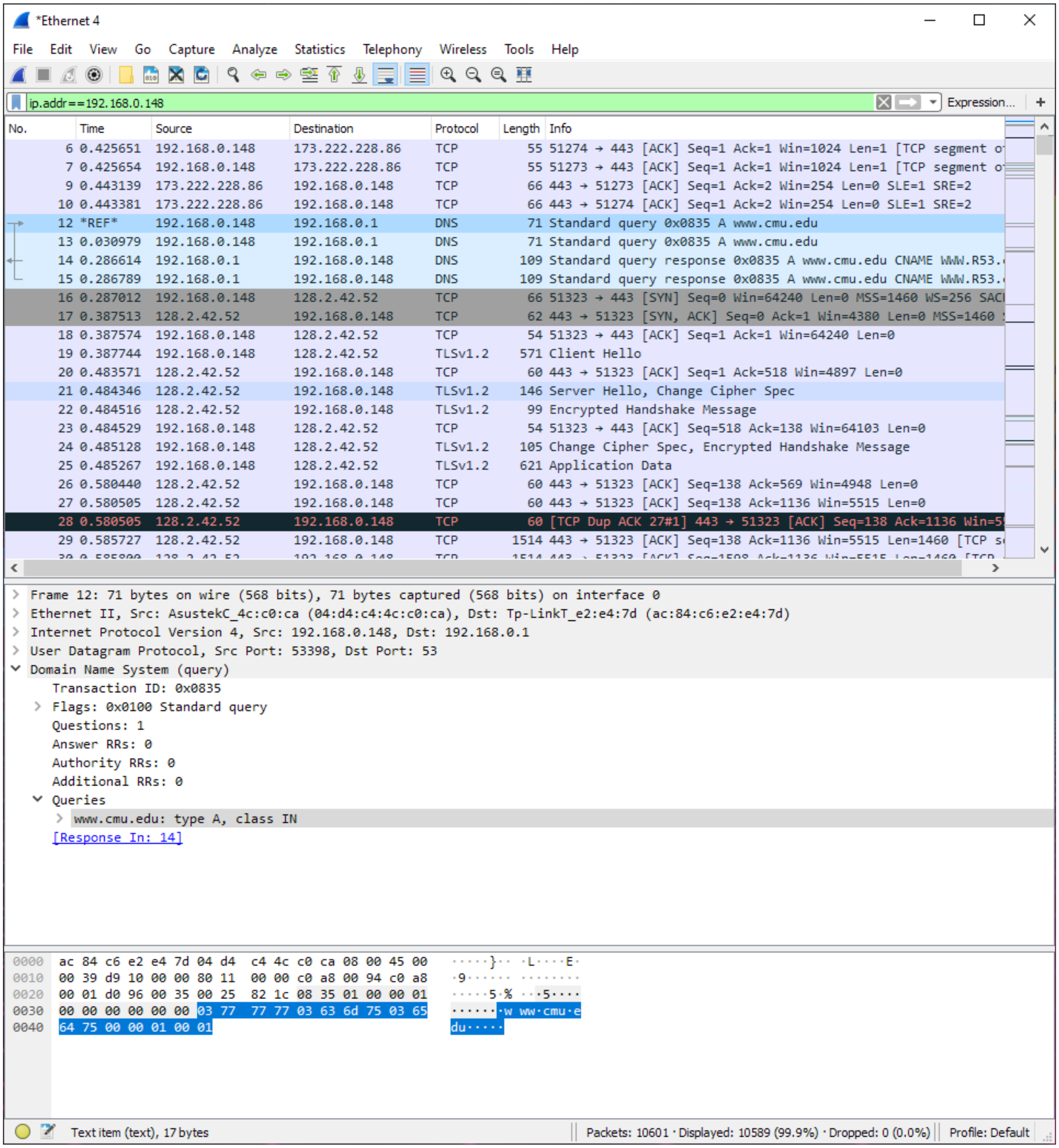
No.	Time	Source	Destination	Protocol	Length	Info
1437	*REF*	192.168.0.148	104.80.34.253	HTTP	267	GET /en-US/livet
1442	0.044907	104.80.34.253	192.168.0.148	HTTP/XML	306	HTTP/1.1 200 OK

3. Their IP address is 104.80.34.253. My computer's IP address is 192.168.0.148.



Source	Destination
192.168.0.148	104.80.34.253
104.80.34.253	192.168.0.148

4. Restarted WS, 133 total packets, all of them include my IP. *ip.addr==192.168.0.148*. Reversing the filter (*ip.addr!=192.168.0.148*) still results in 133 packets, but WS warns that != may have unexpected results. The proper filter should be something like *not ip.addr==192.168.0.148*. 131 packets do not contain my IP.
5. There were 4 DNS packets initially, TCP, but no HTTP requests. Looks like around 10600 packets in total.



*Ethernet 4
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Expression…
+

```
ip.addr==192.168.0.148
```

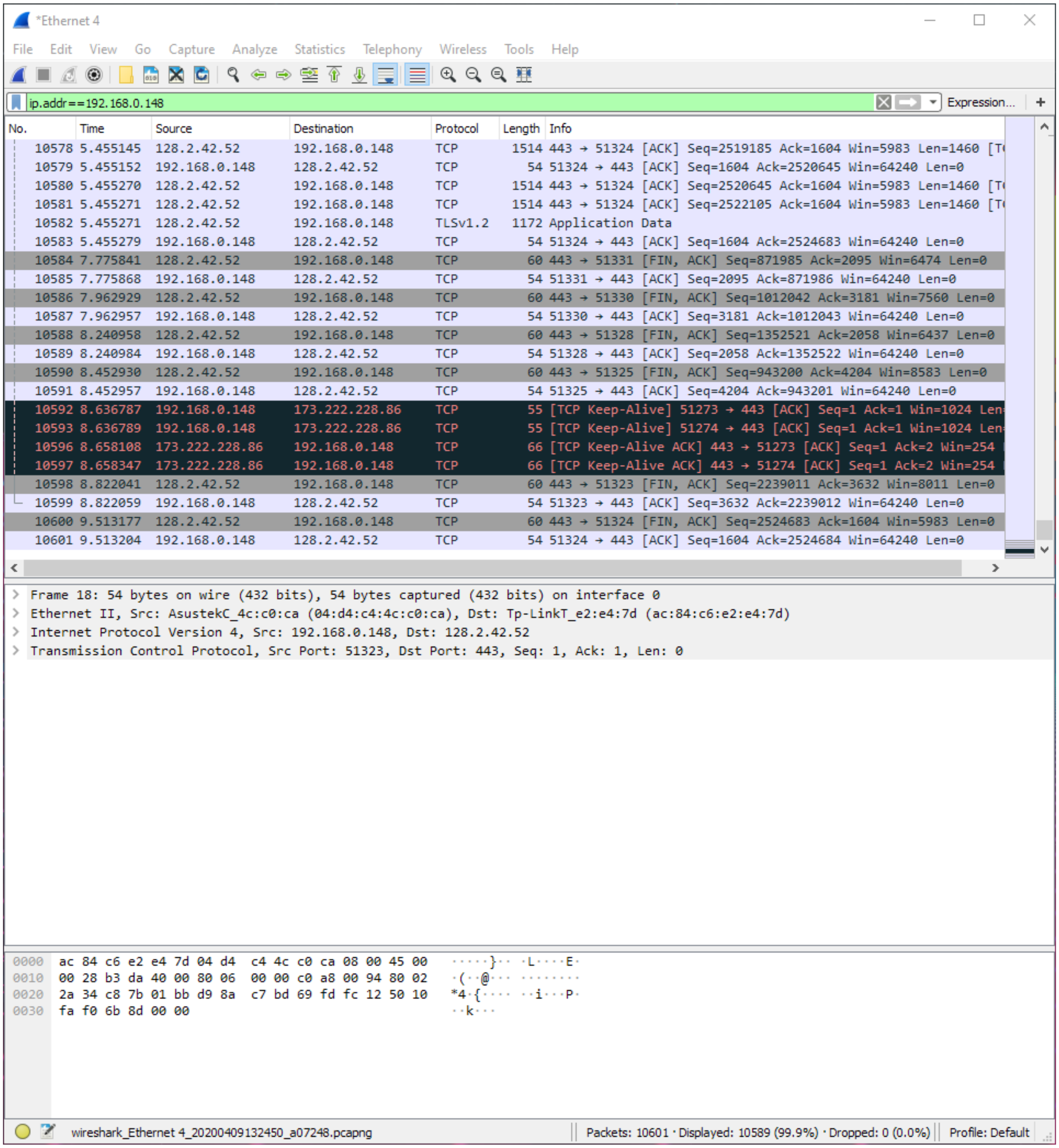
```
No.  Time      Source          Destination     Protocol Length Info
   6 0.425651  192.168.0.148   173.222.228.86  TCP        55 51274 → 443 [ACK] Seq=1 Ack=1 Win=1024 Len=1 [TCP segment o
   7 0.425654  192.168.0.148   173.222.228.86  TCP        55 51273 → 443 [ACK] Seq=1 Ack=1 Win=1024 Len=1 [TCP segment o
   9 0.443139  173.222.228.86  192.168.0.148   TCP        66 443 → 51273 [ACK] Seq=1 Ack=2 Win=254 Len=0 SLE=1 SRE=2
  10 0.443381  173.222.228.86  192.168.0.148   TCP        66 443 → 51274 [ACK] Seq=1 Ack=2 Win=254 Len=0 SLE=1 SRE=2
  12 *REF*     192.168.0.148   192.168.0.1     DNS        71 Standard query 0x0835 A www.cmu.edu
  13 0.030979  192.168.0.148   192.168.0.1     DNS        71 Standard query 0x0835 A www.cmu.edu
  14 0.286614  192.168.0.1     192.168.0.148   DNS       109 Standard query response 0x0835 A www.cmu.edu CNAME WWW.R53.
  15 0.286789  192.168.0.1     192.168.0.148   DNS       109 Standard query response 0x0835 A www.cmu.edu CNAME WWW.R53.
  16 0.287012  192.168.0.148   128.2.42.52     TCP        66 51323 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SAC
  17 0.387513  128.2.42.52     192.168.0.148   TCP        62 443 → 51323 [SYN, ACK] Seq=0 Ack=1 Win=4380 Len=0 MSS=1460
  18 0.387574  192.168.0.148   128.2.42.52     TCP        54 51323 → 443 [ACK] Seq=1 Ack=1 Win=64240 Len=0
  19 0.387744  192.168.0.148   128.2.42.52     TLSv1.2   571 Client Hello
  20 0.483571  128.2.42.52     192.168.0.148   TCP        60 443 → 51323 [ACK] Seq=1 Ack=518 Win=4897 Len=0
  21 0.484346  128.2.42.52     192.168.0.148   TLSv1.2   146 Server Hello, Change Cipher Spec
  22 0.484516  128.2.42.52     192.168.0.148   TLSv1.2    99 Encrypted Handshake Message
  23 0.484529  192.168.0.148   128.2.42.52     TCP        54 51323 → 443 [ACK] Seq=518 Ack=138 Win=64103 Len=0
  24 0.485128  192.168.0.148   128.2.42.52     TLSv1.2   105 Change Cipher Spec, Encrypted Handshake Message
  25 0.485267  192.168.0.148   128.2.42.52     TLSv1.2   621 Application Data
  26 0.580440  128.2.42.52     192.168.0.148   TCP        60 443 → 51323 [ACK] Seq=138 Ack=569 Win=4948 Len=0
  27 0.580505  128.2.42.52     192.168.0.148   TCP        60 443 → 51323 [ACK] Seq=138 Ack=1136 Win=5515 Len=0
  28 0.580505  128.2.42.52     192.168.0.148   TCP        60 [TCP Dup ACK 27#1] 443 → 51323 [ACK] Seq=138 Ack=1136 Win=5
  29 0.585727  128.2.42.52     192.168.0.148   TCP      1514 443 → 51323 [ACK] Seq=138 Ack=1136 Win=5515 Len=1460 [TCP s
```

```
> Frame 12: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface 0
> Ethernet II, Src: AsustekC_4c:c0:ca (04:d4:c4:4c:c0:ca), Dst: Tp-LinkT_e2:e4:7d (ac:84:c6:e2:e4:7d)
> Internet Protocol Version 4, Src: 192.168.0.148, Dst: 192.168.0.1
> User Datagram Protocol, Src Port: 53398, Dst Port: 53
v Domain Name System (query)
    Transaction ID: 0x0835
  > Flags: 0x0100 Standard query
    Questions: 1
    Answer RRs: 0
    Authority RRs: 0
    Additional RRs: 0
  v Queries
    > www.cmu.edu: type A, class IN
    [Response In: 14]
```

```
0000  ac 84 c6 e2 e4 7d 04 d4  c4 4c c0 ca 08 00 45 00   ·····}·· ·L····E·
0010  00 39 d9 10 00 00 80 11  00 00 c0 a8 00 94 c0 a8   ·9······ ········
0020  00 01 d0 96 00 35 00 25  82 1c 08 35 01 00 00 01   ·····5·% ··5····
0030  00 00 00 00 00 00 03 77  77 77 03 63 6d 75 03 65   ······ ·w ww·cmu·e
0040  64 75 00 00 01 00 01                               du·····
```

```
Text item (text), 17 bytes          Packets: 10601 · Displayed: 10589 (99.9%) · Dropped: 0 (0.0%)   Profile: Default
```

Towards the end of the capture, there are several FIN, ACK packets signaling the site finishing up loading?


*Ethernet 4
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Expression...
+

```
ip.addr==192.168.0.148
```

```
No.   Time     Source         Destination    Protocol Length Info
10578 5.455145 128.2.42.52    192.168.0.148  TCP      1514 443 → 51324 [ACK] Seq=2519185 Ack=1604 Win=5983 Len=1460 [T
10579 5.455152 192.168.0.148  128.2.42.52    TCP        54 51324 → 443 [ACK] Seq=1604 Ack=2520645 Win=64240 Len=0
10580 5.455270 128.2.42.52    192.168.0.148  TCP      1514 443 → 51324 [ACK] Seq=2520645 Ack=1604 Win=5983 Len=1460 [T
10581 5.455271 128.2.42.52    192.168.0.148  TCP      1514 443 → 51324 [ACK] Seq=2522105 Ack=1604 Win=5983 Len=1460 [T
10582 5.455271 128.2.42.52    192.168.0.148  TLSv1.2  1172 Application Data
10583 5.455279 192.168.0.148  128.2.42.52    TCP        54 51324 → 443 [ACK] Seq=1604 Ack=2524683 Win=64240 Len=0
10584 7.775841 128.2.42.52    192.168.0.148  TCP        60 443 → 51331 [FIN, ACK] Seq=871985 Ack=2095 Win=6474 Len=0
10585 7.775868 192.168.0.148  128.2.42.52    TCP        54 51331 → 443 [ACK] Seq=2095 Ack=871986 Win=64240 Len=0
10586 7.962929 128.2.42.52    192.168.0.148  TCP        60 443 → 51330 [FIN, ACK] Seq=1012042 Ack=3181 Win=7560 Len=0
10587 7.962957 192.168.0.148  128.2.42.52    TCP        54 51330 → 443 [ACK] Seq=3181 Ack=1012043 Win=64240 Len=0
10588 8.240958 128.2.42.52    192.168.0.148  TCP        60 443 → 51328 [FIN, ACK] Seq=1352521 Ack=2058 Win=6437 Len=0
10589 8.240984 192.168.0.148  128.2.42.52    TCP        54 51328 → 443 [ACK] Seq=2058 Ack=1352522 Win=64240 Len=0
10590 8.452930 128.2.42.52    192.168.0.148  TCP        60 443 → 51325 [FIN, ACK] Seq=943200 Ack=4204 Win=8583 Len=0
10591 8.452957 192.168.0.148  128.2.42.52    TCP        54 51325 → 443 [ACK] Seq=4204 Ack=943201 Win=64240 Len=0
10592 8.636787 192.168.0.148  173.222.228.86 TCP        55 [TCP Keep-Alive] 51273 → 443 [ACK] Seq=1 Ack=1 Win=1024 Len
10593 8.636789 192.168.0.148  173.222.228.86 TCP        55 [TCP Keep-Alive] 51274 → 443 [ACK] Seq=1 Ack=1 Win=1024 Len
10596 8.658108 173.222.228.86 192.168.0.148  TCP        66 [TCP Keep-Alive ACK] 443 → 51273 [ACK] Seq=1 Ack=2 Win=254
10597 8.658347 173.222.228.86 192.168.0.148  TCP        66 [TCP Keep-Alive ACK] 443 → 51274 [ACK] Seq=1 Ack=2 Win=254
10598 8.822041 128.2.42.52    192.168.0.148  TCP        60 443 → 51323 [FIN, ACK] Seq=2239011 Ack=3632 Win=8011 Len=0
10599 8.822059 192.168.0.148  128.2.42.52    TCP        54 51323 → 443 [ACK] Seq=3632 Ack=2239012 Win=64240 Len=0
10600 9.513177 128.2.42.52    192.168.0.148  TCP        60 443 → 51324 [FIN, ACK] Seq=2524683 Ack=1604 Win=5983 Len=0
10601 9.513204 192.168.0.148  128.2.42.52    TCP        54 51324 → 443 [ACK] Seq=1604 Ack=2524684 Win=64240 Len=0
```

```
> Frame 18: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface 0
> Ethernet II, Src: AsustekC_4c:c0:ca (04:d4:c4:4c:c0:ca), Dst: Tp-LinkT_e2:e4:7d (ac:84:c6:e2:e4:7d)
> Internet Protocol Version 4, Src: 192.168.0.148, Dst: 128.2.42.52
> Transmission Control Protocol, Src Port: 51323, Dst Port: 443, Seq: 1, Ack: 1, Len: 0
```

```
0000  ac 84 c6 e2 e4 7d 04 d4  c4 4c c0 ca 08 00 45 00   ·····}·· ·L····E·
0010  00 28 b3 da 40 00 80 06  00 00 c0 a8 00 94 80 02   ·(··@··· ········
0020  2a 34 c8 7b 01 bb d9 8a  c7 bd 69 fd fc 12 50 10   *4·{···· ··i···P·
0030  fa f0 6b 8d 00 00                                  ··k···
```

wireshark_Ethernet 4_20200409132450_a07248.pcapng | Packets: 10601 · Displayed: 10589 (99.9%) · Dropped: 0 (0.0%) | Profile: Default