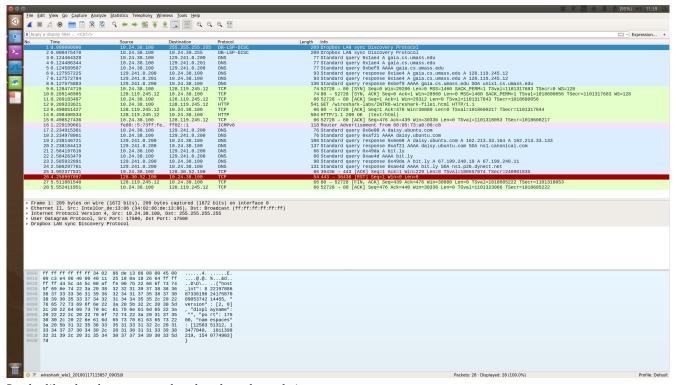
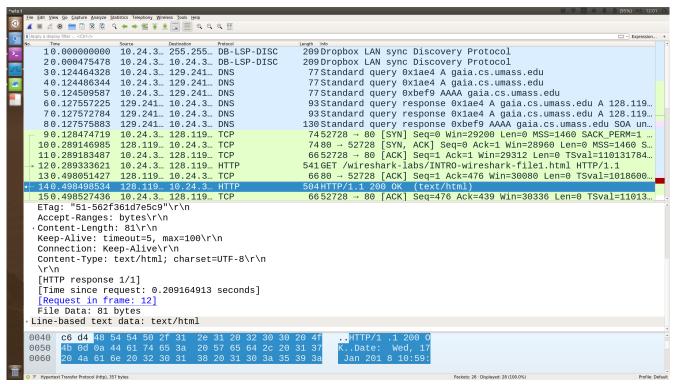
## Question 1



Looks like the three protocols related to the website access are:

- $\bullet$  DNS
- HTTP
- $\bullet$  TCP

## Question 2



Going into to response entry, we can see that the time passed since request was about 0.2092 s.

## Question 3

Looking at the source and destination of the HTTP GET request, we see that the source (my computer) has internet address 10.24.38.100 and that the website has internet address 128.119.245.12.

## Question 4

```
74 52728 - 80 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TS...
74 80 - 52728 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1466 SAC...
66 52728 - 80 [ACK] Seq=1 Ack=1 Win=28950 Len=0 TSVal=1101317843 ...
541 GET /Wireshark-labs/INTRO-Wireshark-file1.html HTTP/4.1
66 80 - 52728 [ACK] Seq=1 Ack=476 Win=30080 Len=0 TSVal=101860021...
504 HTTP/1.1 200 OK (text/html)
66 52728 - 80 [ACK] Seq=476 Ack=439 Win=30336 Len=0 TSVal=1101318...
118 Router Advertisement from 00:05:73:a0:00:08
76 Standard query 06:080 A daisy whints.
                9 0.128474719
10 0.289146985
11 0.289183487
                                                                                                                                           10.24.38.100
128.119.245.12
10.24.38.100
                                                                                                                                                                                                                                                                                                              128.119.245.12
                                                                                                                                                                                                                                                                                                              10.24.38.100
128.119.245.12
                  13 0 . 498051427
                                                                                                                                           128.119.245.12
                                                                                                                                                                                                                                                                                                                                                                                                                                                           HTTP
                  140.498498534
                                                                                                                                                                                                                                                                                                           10.24.38.100
128.119.245.12
ff02::1
129.241.0.200
129.241.0.200
10.24.38.100
10.24.38.100
129.241.0.200
129.241.0.200
10.24.38.100
                  15 0 . 498527436
                                                                                                                                           10.24.38.100
fe80::5:73ff:fea0:c8
                  161.229199661
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ICMPv6
                                                                                                                                          fe80::5:73ff:1
10.24.38.100
10.24.38.100
129.241.0.200
129.241.0.200
10.24.38.100
129.241.0.200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    118 Router Advertisement from 00:05:73:a0:00:c8
76 Standard query 0xaf21 AAAA daisy.ubuntu.com
76 Standard query exponse 0x6e08 A daisy.ubuntu.com
188 Standard query response 0xaf21 AAAA daisy.ubuntu.com A 162.213.33...
137 Standard query response 0xaf21 AAAA daisy.ubuntu.com SOA nsi.c...
66 Standard query 0x49da A bit.ly
66 Standard query 0xae44 AAAA bit.ly
98 Standard query response 0x49da A bit.ly A 67.199.248.10 A 67.1...
                  17 2.234915301
18 2.234978061
                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNS
                  19 2.238146721
                  19 2.238146721
20 2.238184413
21 2.584197616
22 2.584263479
23 2.585922891
Frame 12: 541 bytes on wire (4328 bits), 541 bytes captured (4328 bits) on interface 0 Ethernet II, Src: IntelCor_de:13:86 (34:02:86:de:13:86), Dst: Cisco_9f:f0:c8 (00:00:0c:9f:f0:c8) Internet Protocol Version 4, Src: 10:24.38.100, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 52728, Dst Port: 80, Seq: 1, Ack: 1, Len: 475
         ypertext Transfer Protocol
GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
Host: gaia.cs.umass.edu\r\n
Connection: keep-alive\r\n
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/63.0.3239.84 Chrome/63.0.3239.84 Safari/537.36\r\n
Upgrade-Insecure-Requests: 1\r\n
Accept: Lext/Hnl, application/xhtml+xml, application/xml;q=0.9, image/webp, image/apng, */*;q=0.8\r\n
Accept-Encoding: gzip, deflate\r\n
Accept-Encoding: gzip. deflate\r\n
Acce
            \tag{Kr\n} [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html] [Response in frame: 14]
```

Figure 1: HTTP GET

```
- 12 0.289333821 10.24.38.100 128.119.245.12 HTTP 5416ET /wireshark.labs/INTRO-wireshark.file1.html HTTP/1.1 130.498.081427 128.119.245.12 10.24.38.100 TCP 66.80 57278 [ACK) Sog-1 Ack+476 win-30080 Lene of TSval=101860021.

- 140.408508363 128.3119.245.12 10.24.38.100 HTTP 504 HTTP/1.1 200 (K (45Y.7/HTml) 1504 HTTP/1.1 200 (K (45Y.7/HTml) 1504 HTTP/1.1 1200 (K (45
```

Figure 2: HTTP OK