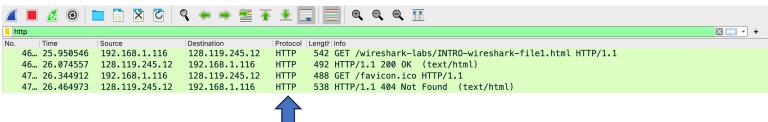
Author Ruben Ortega Screen shot of Wireshark after clicking the link to umass



- 1. The protocols that are shown in the trace file are just HTTP. Since we were instructed to filter HTTP in the previous step. If it wasn't filtered I saw all the protocols listed.
- The delay was .124011 seconds 17:44:10.245609 17:44:10.121598

```
| Number | N
```

3. The internet address of gaia.cs.umass.edu is 128.119.245.12 and the internet address of my computer is 192.168.1.116

```
| Mi-Fi: en0 and anpi0 | Mi-Fi: en0 anpi0 | Mi-Fi
```

```
Hypertext 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 Upgrade-Insecure-Requests: 1\r\n

> [Timestamps]

No.

Time

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/116.0.0.0

4. The browser that issued the request is built with software components of Mozilla and Apple's Webkit and that is Google Chrome.

5. The destination port is port 80

```
Frame 4644: 542 bytes on wire (4336 bits), 542 bytes captured (4336 bits) on interface en0, id 0
Ethernet II, Src: Apple_d2:e3:78 (d4:57:63:d2:e3:78), Dst: ARRISGro_0b:de:d1 (e0:22:02:0b:de:d1)
Internet Protocol Version 4, Src: 192.168.1.116, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 50645, Dst Port: 80, Seq: 1, Ack: 1, Len: 488
 Source Port: 50645
 Qestination Port: 80
 [Stream index: 29]
 [Conversation completeness: Complete, WITH_DATA (31)]
 [TCP Segment Len: 488]
                        (relative sequence number)
 Sequence Number: 1
 Sequence Number (raw): 408215055
 [Next Sequence Number: 489
                               (relative sequence number)]
 Acknowledgment Number: 1
                              (relative ack number)
 Acknowledgment number (raw): 274230228
 0101 .... = Header Length: 20 bytes (5)
Flags: 0x018 (PSH, ACK)
 Window: 4096
 [Calculated window size: 262144]
 [Window size scaling factor: 64]
 Checksum: 0x0552 [unverified]
 [Checksum Status: Unverified]
 Urgent Pointer: 0
```

6. Print the two HTTP messages (GET and OK)

Source

/var/folders/58/348fxrmx281cz01js2nqm5kh0000gn/T/wireshark 2 interfacesXGNGB2.pcapng 4787 total packets, 4 shown

```
Protocol Length Info
   4644 17:44:10.121598
                              192.168.1.116
                                                      128.119.245.12
                                                                               HTTP
                                                                                         542
                                                                                                 GET /
wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Frame 4644: 542 bytes on wire (4336 bits), 542 bytes captured (4336 bits) on interface en0, id 0 Ethernet II, Src: Apple_d2:e3:78 (d4:57:63:d2:e3:78), Dst: ARRISGro_0b:de:d1 (e0:22:02:0b:de:d1)
Internet Protocol Version 4, Src: 192.168.1.116, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 50645, Dst Port: 80, Seq: 1, Ack: 1, Len: 488
Hypertext Transfer Protocol
        Time
                              Source
                                                      Destination
                                                                               Protocol Length Info
   4683 17:44:10.245609
                              128.119.245.12
                                                      192.168.1.116
                                                                               HTTP
                                                                                         492
                                                                                                 HTTP/1.1
200 OK (text/html)
Frame 4683: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface en0, id 0
Ethernet II, Src: ARRISGro_0b:de:d1 (e0:22:02:0b:de:d1), Dst: Apple_d2:e3:78 (d4:57:63:d2:e3:78)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.116
Transmission Control Protocol, Src Port: 80, Dst Port: 50645, Seq: 1, Ack: 489, Len: 438
Hypertext Transfer Protocol
Line-based text data: text/html (3 lines)
```

Destination