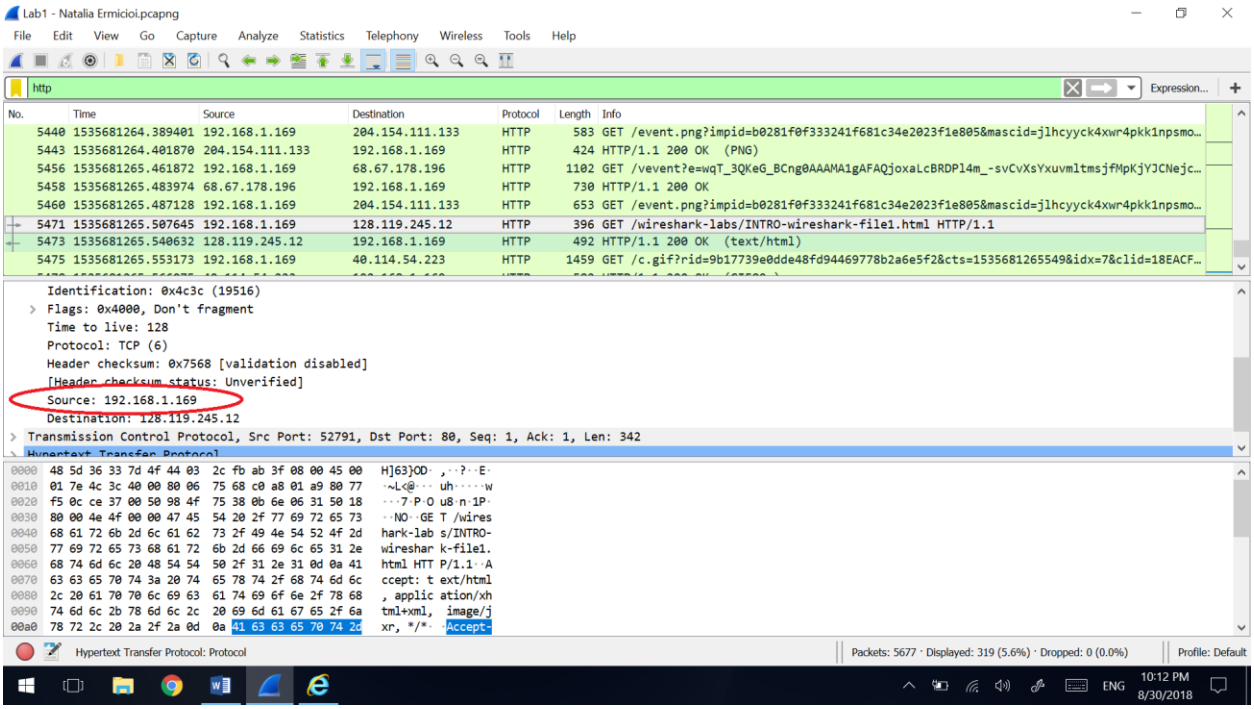
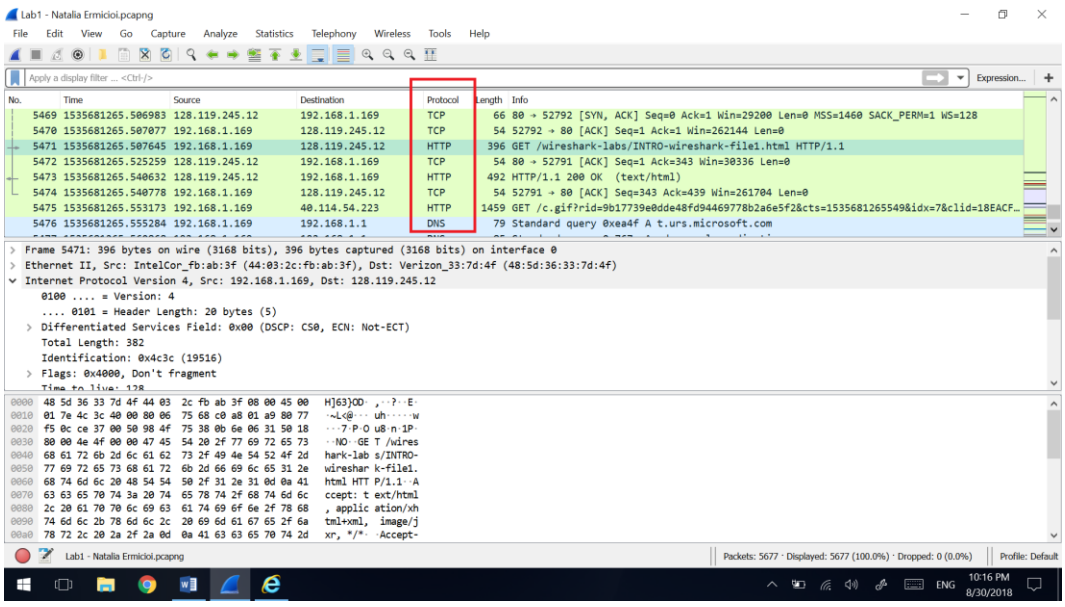
1. What is the Internet address of your computer?

Answer: 192.168.1.169



2. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

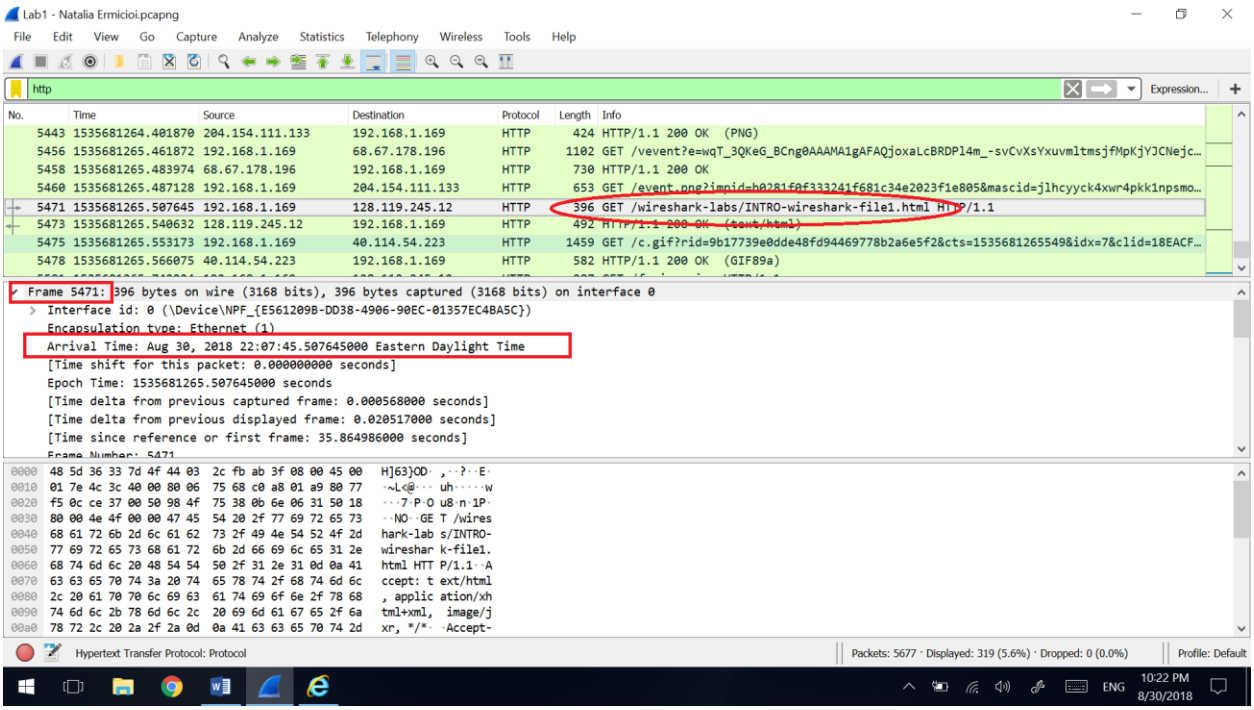
Answer: TCP, HTTP, DNS.

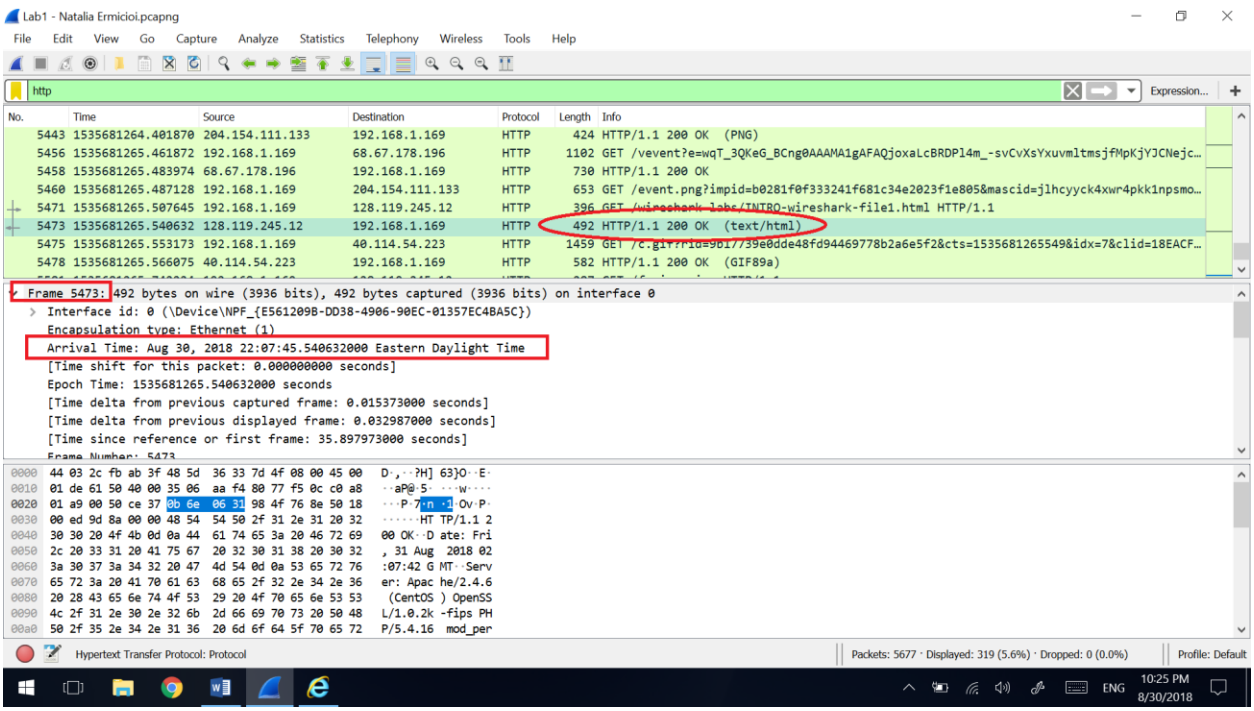


3. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packetlisting window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time Display Format, then select Time-of-day.)

Answer:

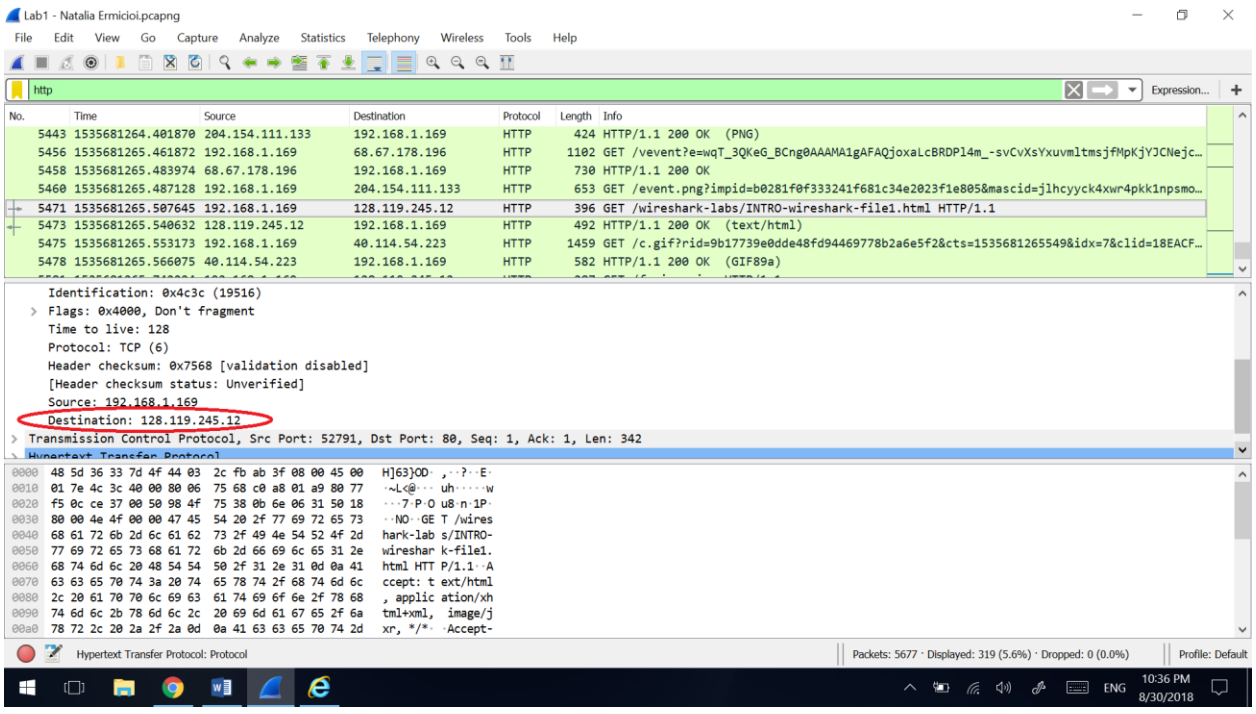
- Arrival time of GET request is: Aug 30, 2018 22:07:45.507645000
- Arrival time of HTTP OK is: Aug 30, 2018 22:07:45.540632000
  Difference: 0.540632-0.507645=0.032987 sec.





4. What is the Internet address of the gaia.cs.umass.edu (also known as wwwnet.cs.umass.edu)?

Answer: 128.119.245.12



5. Print the two HTTP messages (GET and OK) referred to in question 2 above. To do so, select Print from the Wireshark File command menu, and select the “Selected Packet Only” and “Print as displayed” radial buttons, and then click OK.

C:\Users\Natalia\Desktop\Lab1 - Natalia Ermicioi.pcapng 5677 total packets, 319 shown

```
No.     Time                           Source                Destination           Protocol Length Info
   5471 1535681265.507645              192.168.1.169         128.119.245.12        HTTP     396    GET /wireshark-labs/INTRO-
wireshark-file1.html HTTP/1.1
Frame 5471: 396 bytes on wire (3168 bits), 396 bytes captured (3168 bits) on interface 0
Ethernet II, Src: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f), Dst: Verizon_33:7d:4f (48:5d:36:33:7d:4f)
Internet Protocol Version 4, Src: 192.168.1.169, Dst: 128.119.245.12
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 382
    Identification: 0x4c3c (19516)
    Flags: 0x4000, Don't fragment
    Time to live: 128
    Protocol: TCP (6)
    Header checksum: 0x7568 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.1.169
    Destination: 128.119.245.12
Transmission Control Protocol, Src Port: 52791, Dst Port: 80, Seq: 1, Ack: 1, Len: 342
Hypertext Transfer Protocol
```

C:\Users\Natalia\Desktop\Lab1 - Natalia Ermicioi.pcapng 5677 total packets, 319 shown

```
No.     Time                           Source                Destination           Protocol Length Info
   5473 1535681265.540632              128.119.245.12        192.168.1.169         HTTP     492    HTTP/1.1 200 OK  (text/html)
Frame 5473: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface 0
Ethernet II, Src: Verizon_33:7d:4f (48:5d:36:33:7d:4f), Dst: IntelCor_fb:ab:3f (44:03:2c:fb:ab:3f)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.169
    0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 478
    Identification: 0x6150 (24912)
    Flags: 0x4000, Don't fragment
    Time to live: 53
    Protocol: TCP (6)
    Header checksum: 0xaaf4 [validation disabled]
    [Header checksum status: Unverified]
    Source: 128.119.245.12
    Destination: 192.168.1.169
Transmission Control Protocol, Src Port: 80, Dst Port: 52791, Seq: 1, Ack: 343, Len: 438
Hypertext Transfer Protocol
Line-based text data: text/html (3 lines)
```