Wireshark Lab: Getting Started v6.0

LAB SOLUTION #1

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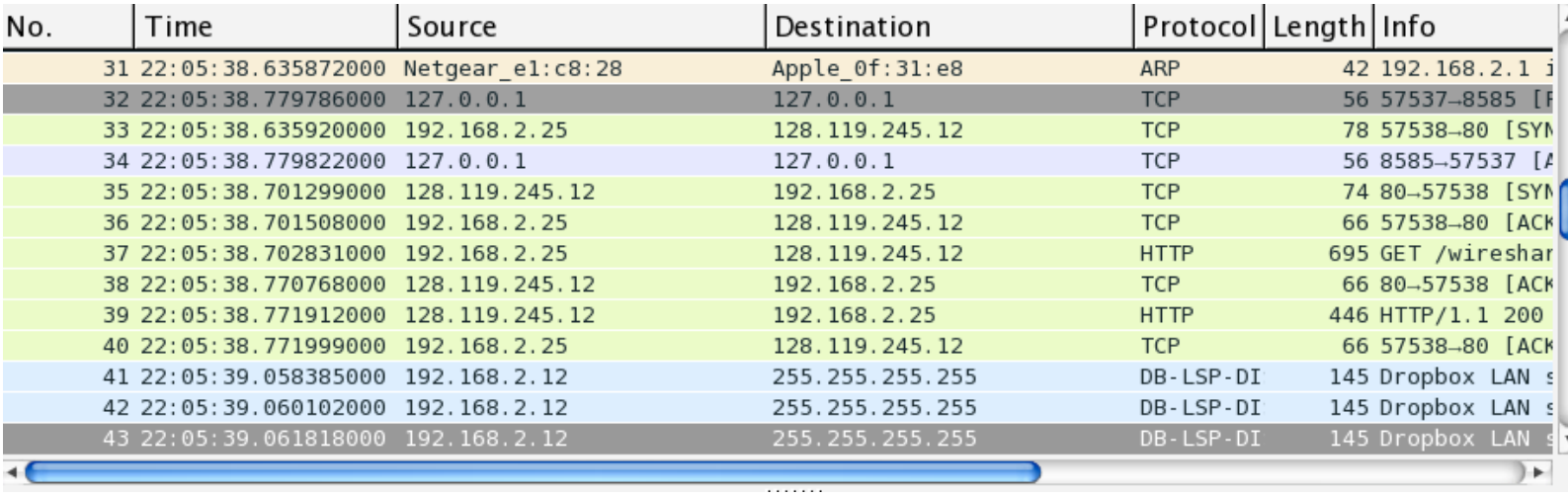
MANASI SHARMA

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

ANSWER:

The protocols that appeared in the protocol column in the unfiltered packet-listing window in step above: TCP, ARP, HTTP.

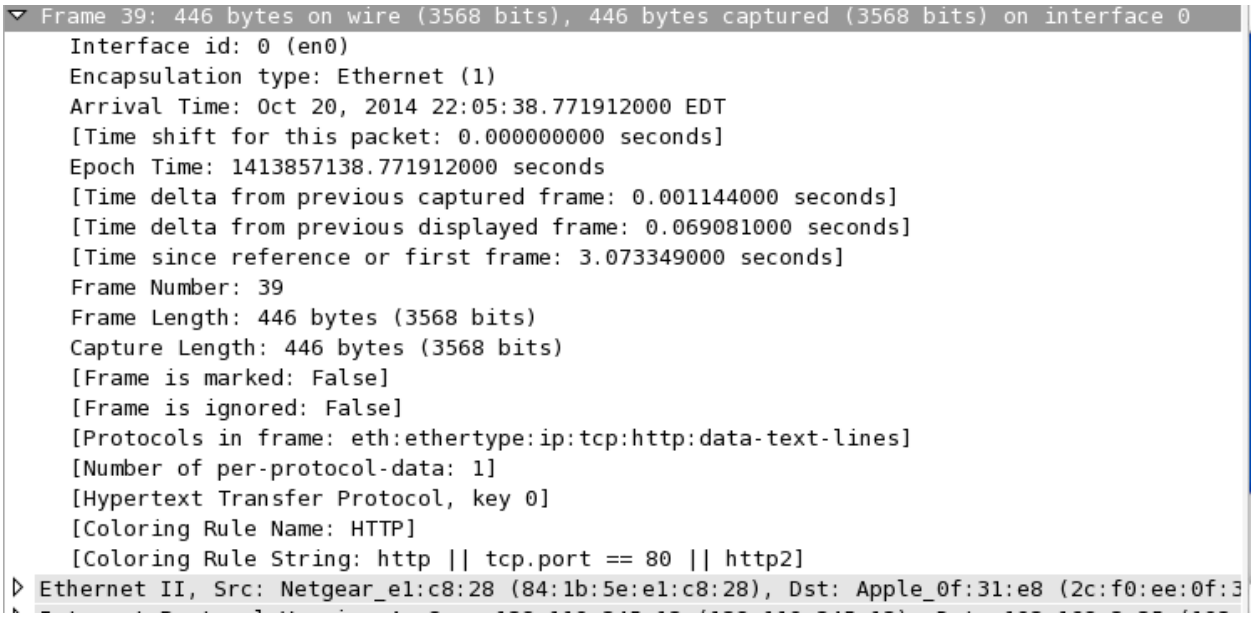


No.	Time	Source	Destination	Protocol	Length	Info
31	22:05:38.635872000	Netgear_e1:c8:28	Apple_0f:31:e8	ARP	42	192.168.2.1 i
32	22:05:38.779786000	127.0.0.1	127.0.0.1	TCP	56	57537→8585 [F
33	22:05:38.635920000	192.168.2.25	128.119.245.12	TCP	78	57538→80 [SYN
34	22:05:38.779822000	127.0.0.1	127.0.0.1	TCP	56	8585→57537 [A
35	22:05:38.701299000	128.119.245.12	192.168.2.25	TCP	74	80→57538 [SYN
36	22:05:38.701508000	192.168.2.25	128.119.245.12	TCP	66	57538→80 [ACK
37	22:05:38.702831000	192.168.2.25	128.119.245.12	HTTP	695	GET /wireshar
38	22:05:38.770768000	128.119.245.12	192.168.2.25	TCP	66	80→57538 [ACK
39	22:05:38.771912000	128.119.245.12	192.168.2.25	HTTP	446	HTTP/1.1 200
40	22:05:38.771999000	192.168.2.25	128.119.245.12	TCP	66	57538→80 [ACK
41	22:05:39.058385000	192.168.2.12	255.255.255.255	DB-LSP-DI	145	Dropbox LAN s
42	22:05:39.060102000	192.168.2.12	255.255.255.255	DB-LSP-DI	145	Dropbox LAN s
43	22:05:39.061818000	192.168.2.12	255.255.255.255	DB-LSP-DI	145	Dropbox LAN s

2. 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 packet- listing 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:

The frame section of the GET request : the time the packet arrived is 22:05:38.702831000



The frame section of the GET request : the time the packet arrived is 22:05:38.771912000

Therefore, the time took from HTTP GET to HTTP OK is

.771912000 - .702831000 = 0.069081000 second

3. What is the Internet address of the gaia.cs.umass.edu (also known as www- net.cs.umass.edu)? What is the Internet address of your computer?

```
Header checksum: 0x0147 [validation disabled]
Source: 128.119.245.12 (128.119.245.12)
Destination: 192.168.2.25 (192.168.2.25)
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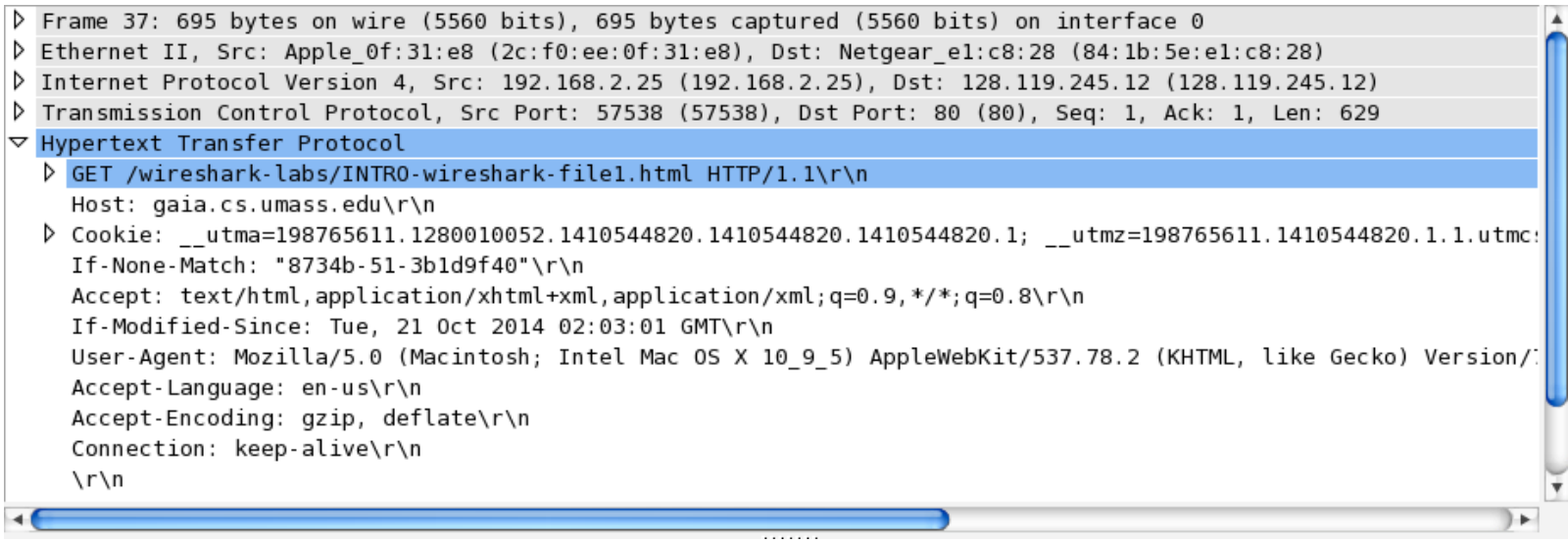
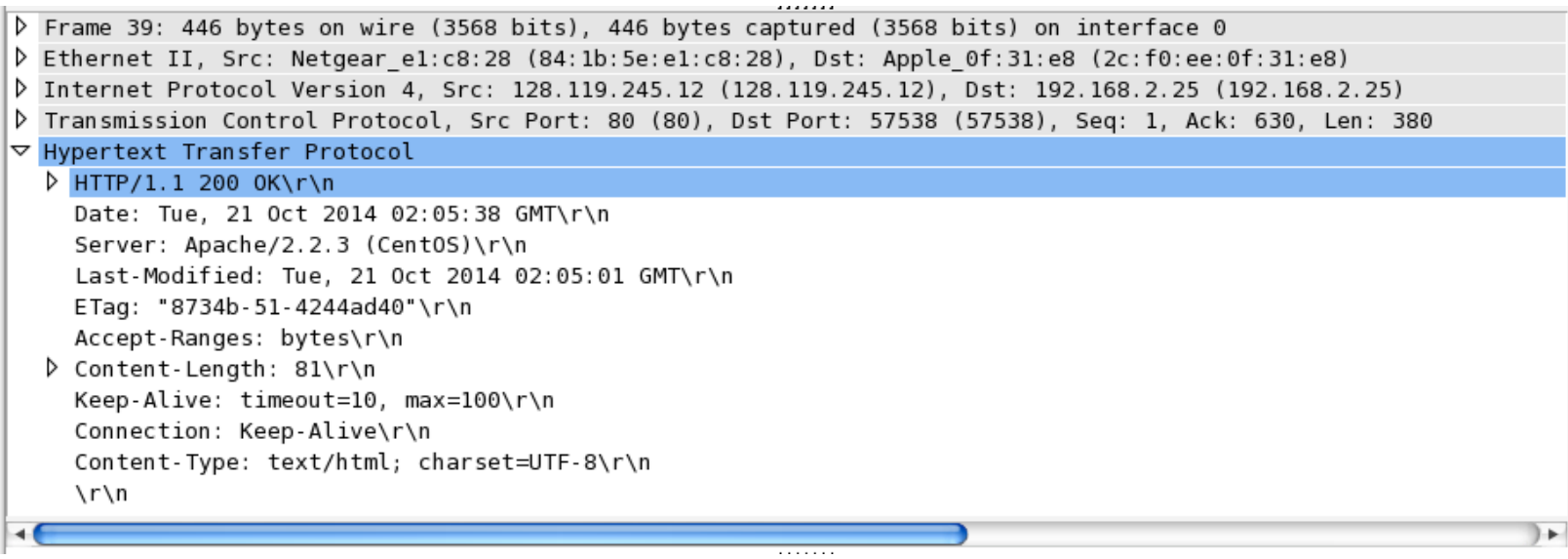
This datagram is HTTP GET. It is sent form my computer to the web server.

My computer's IP address is 128.119.245.12 (source)

The web server's IP address is 192.168.2.25(gaia.cs.umass.edu).

4. 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.




Frame 39: 446 bytes on wire (3568 bits), 446 bytes captured (3568 bits) on interface 0
Ethernet II, Src: Netgear_e1:c8:28 (84:1b:5e:e1:c8:28), Dst: Apple_0f:31:e8 (2c:f0:ee:0f:31:e8)
Internet Protocol Version 4, Src: 128.119.245.12 (128.119.245.12), Dst: 192.168.2.25 (192.168.2.25)
Transmission Control Protocol, Src Port: 80 (80), Dst Port: 57538 (57538), Seq: 1, Ack: 630, Len: 380
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
Date: Tue, 21 Oct 2014 02:05:38 GMT\r\n
Server: Apache/2.2.3 (CentOS)\r\n
Last-Modified: Tue, 21 Oct 2014 02:05:01 GMT\r\n
ETag: "8734b-51-4244ad40"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 81\r\n
Keep-Alive: timeout=10, max=100\r\n
Connection: Keep-Alive\r\n
Content-Type: text/html; charset=UTF-8\r\n
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