Wireshark HTTP

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1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

HTTP 1.1

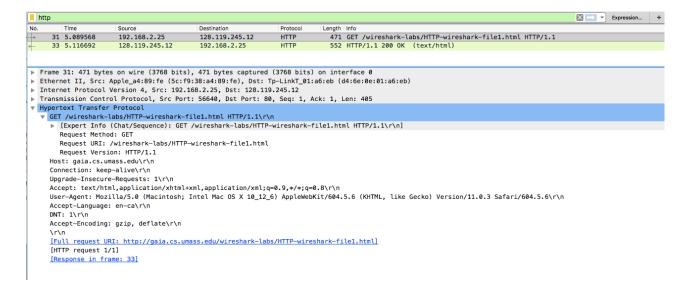
2. What languages (if any) does your browser indicate that it can accept to the server?

En-ca

- 3. What is the IP address of your computer? Of the gaia.cs.umass.edu server? My IP: 192.168.2.25 uMass IP: 128.119.245.12
- 4. What is the status code returned from the server to your browser? 200 OK
- 5. When was the HTML file that you are retrieving last modified at the server? Last-Modified: Thu, 22 Mar 2018 05:59:02 GMT
- 6. How many bytes of content are being returned to your browser?

 128
- 7. By inspecting the raw data in the packet content window, do you see any headers within the data that are not displayed in the packet-listing window? If so, name one.

No headers within the data that are not displayed in the packet-listing window



- 8. Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?

 No
- 9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

It did return the contents of the file. I can tell by looking at the Line-based text data.

```
Line-based text data: text/html

\n

<html>\n
\n

Congratulations again! Now you've downloaded the file lab2-2.html. <br>\n

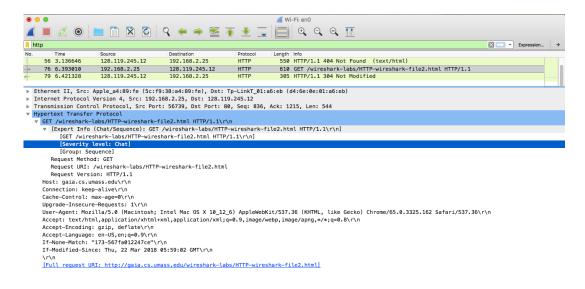
This file's last modification date will not change. \n

Thus if you download this multiple times on your browser, a complete copy <br>\n

will only be sent once by the server due to the inclusion of the IN-MODIFIED-SINCE<br>\n
field in your browser's HTTP GET request to the server.\n
\n
</html>\n
```

- 10. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE:" line in the HTTP GET? If so, what information follows the "IF-MODIFIED-SINCE:" header? THU, 22 Mar 2018 05:59:02 GMT\rn\n
- 11. What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

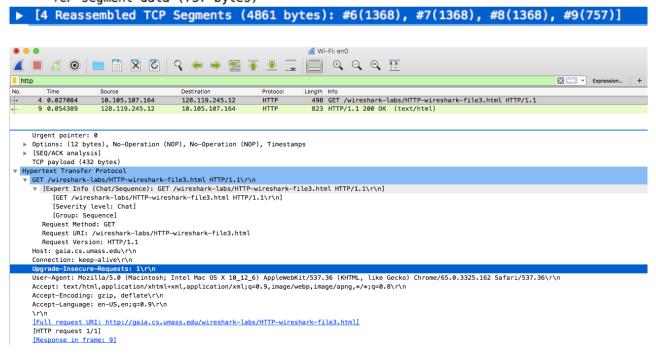
No. Because 304 Not Modified



- 1. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill or Rights?

 1 HTTP GET request message was sent. Packet number 4
- 2. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?

 9 is the response to the HTTP GET
- 3. What is the status code and phrase in the response? 200 OK
- 4. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

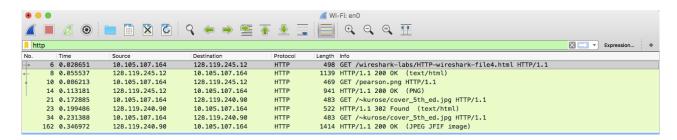


1. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

4 HTTP GET requests were sent. They were sent to addresses 128.119.245.12 & 128.119.240.90

2. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.

Serially, because we get multiple GET and RESPONSES sent and received. If it was parallel they would come at the same time.



Section 5

1. What is the server's response (status code and phrase) in response to the initial HTTP GET message from your browser?

401 Unauthorized

2. When your browser's sends the HTTP GET message for the second time, what new field is included in the HTTP GET message?

Authorization: Basic

