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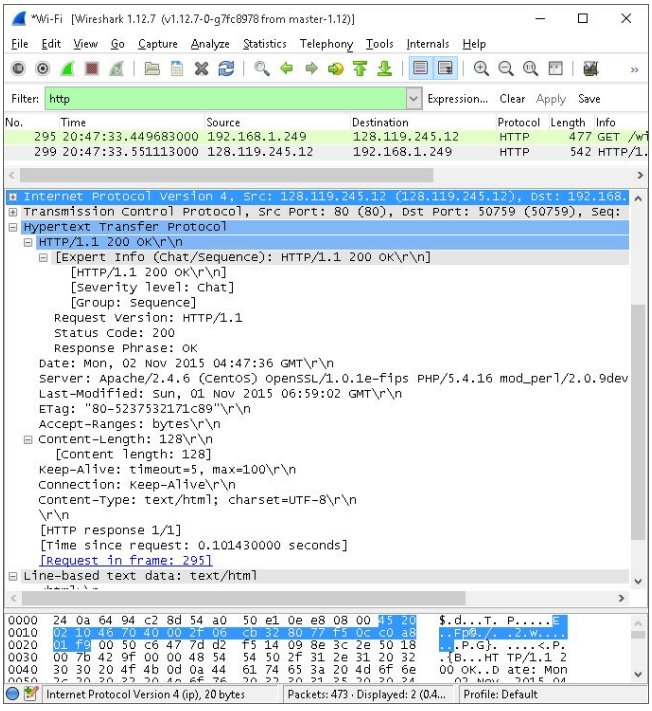
CSc138

Lab2

1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?
   - My browser is running HTTP version 1.1.
2. What languages (if any) does your browser indicate that it can accept to the server?
   - en-US, en; q=0.8\r\n. I don't know what half of that means, but the first part has to mean "United States English."
3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?
   - My IP address is 192.168.1.249, and gaia.cs.umass server is 128.199.245.12.
4. What is the status code returned from the server to your browser?
   - The status code is 200.
5. When was the HTML file that you are retrieving last modified at the server?
   - The HTML file was last modified Sunday, 01 Nov 2015 06:59:02 GMT
6. How many bytes of content are being returned to your browser?
   - 128 bytes were returned to my browser.
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.
   - Nothing that I could find. I couldn't find anything in the raw data window that wasn't 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, I do not.

9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

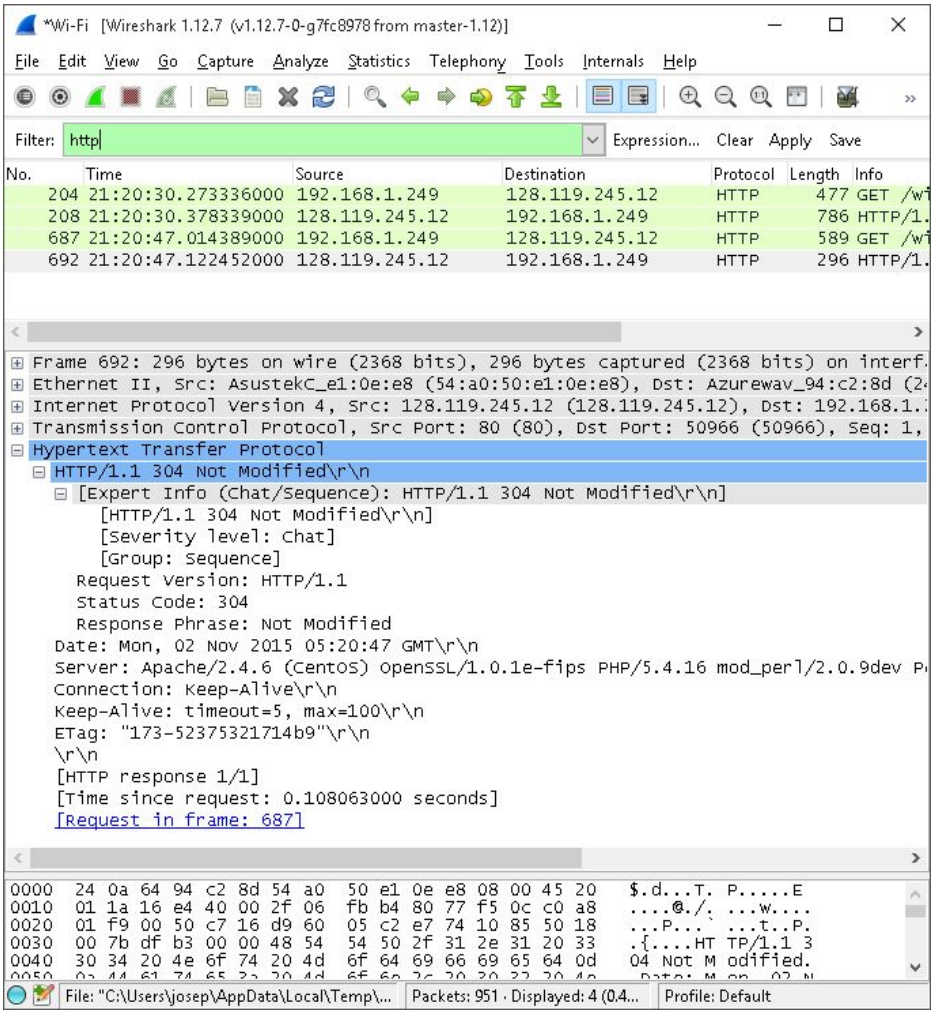
- Yes, the server return the contents of the file. It is under “Line-based text data:”

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?

- Yes I do. It says, “Sun, 01 Nov 2015 06:59:02 GMT\r\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.

- Status code is 304. Response phrase is “Not modified”, and there are no contents of the file because nothing has changed since the last request.



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

- My browser only sent 1 HTTP GET request. The first packet that has the request has the GET message for the Bill of Rights.

13. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?

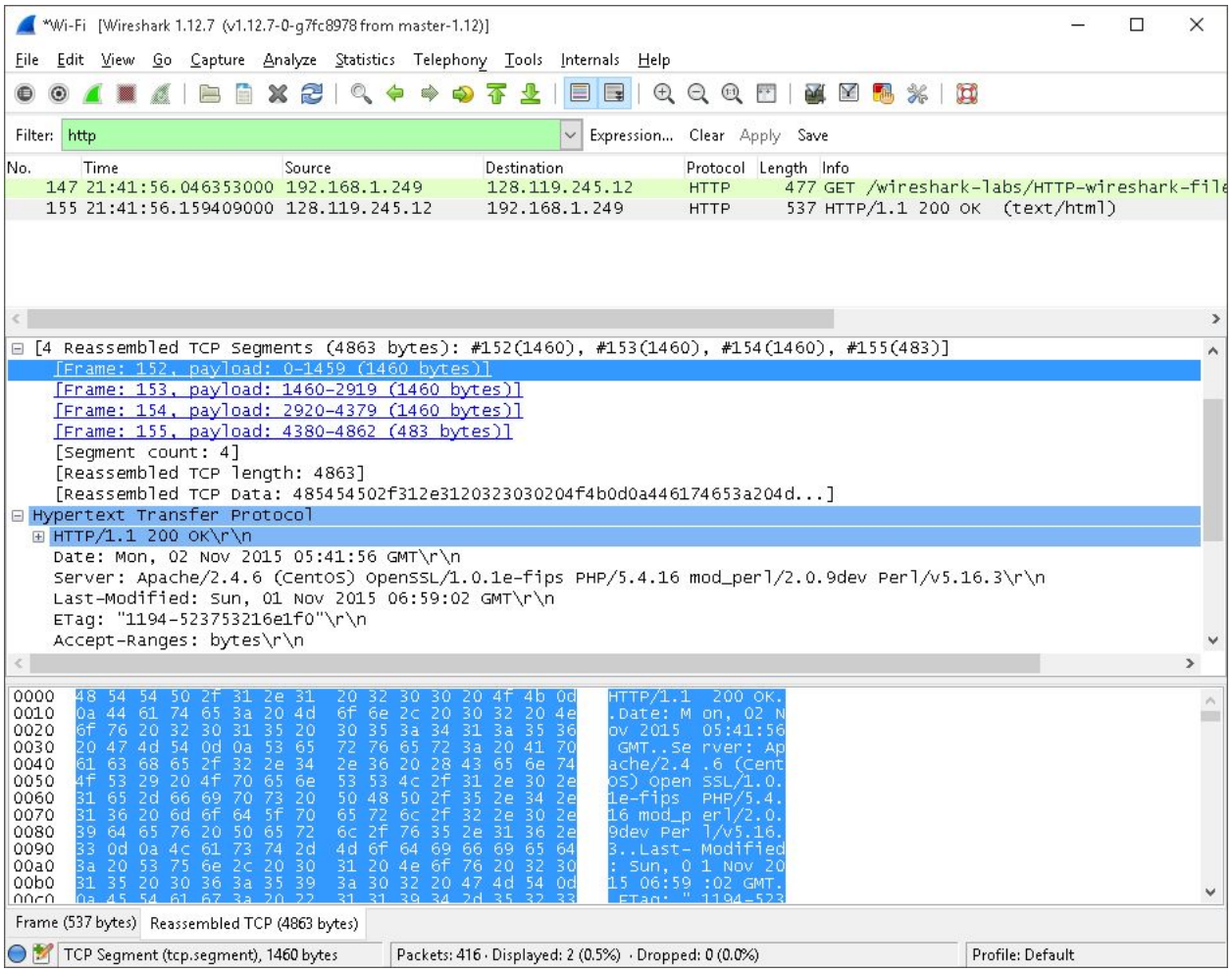
- The first response packet contains the status code and phrase for the HTTP GET request.

14. What is the status code and phrase in the response?

- The status code is 200, and the phrase is “OK”

15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

- There were four segments.

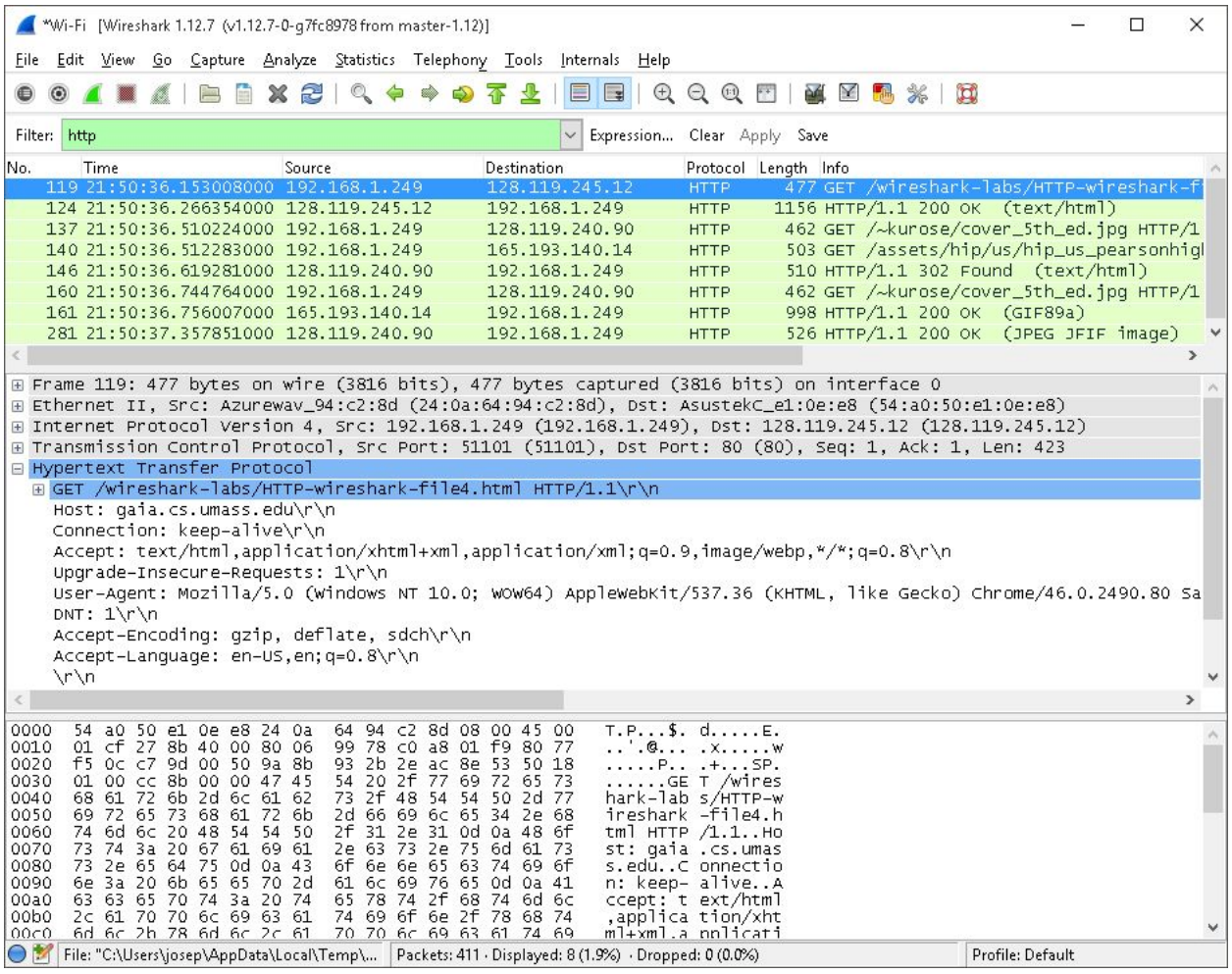


16. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

- There were 4 GET requests.
    a. /wireshark-labs/HTTP-wireshark-file4.html
    b. /~kurose/cover_5th_ed.jpg
    c. /assets/hip/us/hip_us_pearsonhighered/images/pearson_logo.gif
    d. /~kurose/cover_5th_ed.jpg

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

- Chrome downloaded the images serially. I know that because the second image didn't start to load until the first one was completely done.



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

- The status code was 401 and the phrase was "unauthorized".

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

- The new field is "Authorization", and it contains the username and password that I typed in.