Part 01:

Here we have 7 questions. The answer of this question are given below...

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

Answer: both of the browser and server are running HTTP version 1.1.

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

Answer: en-US

3. What is the IP address of your computer?? Of the gaia.cs.umass.edu server?

Answer: my IP: 10.0.2.15

gaia.cs.umass.edu IP: 128.119.245.12

4. What is the status code returned from the server to your browser?

Answer: 200

5. When was the HTML file that you are retrieving last modified at the server?

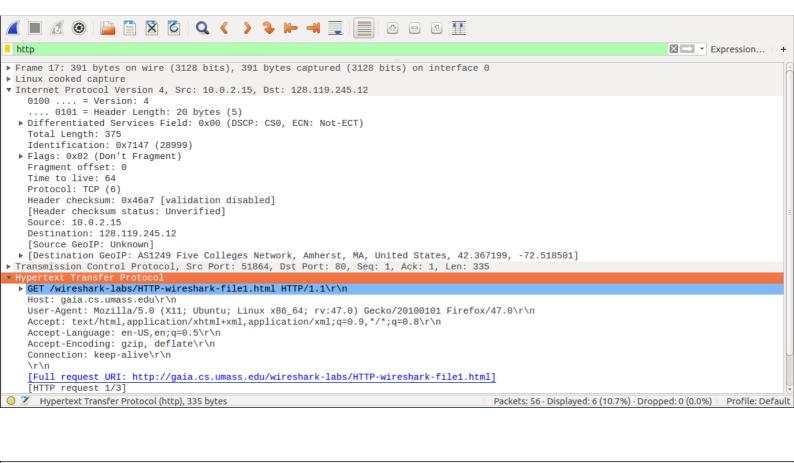
Answer: Mon, 14 Aug 2017 05:59:01 GMT

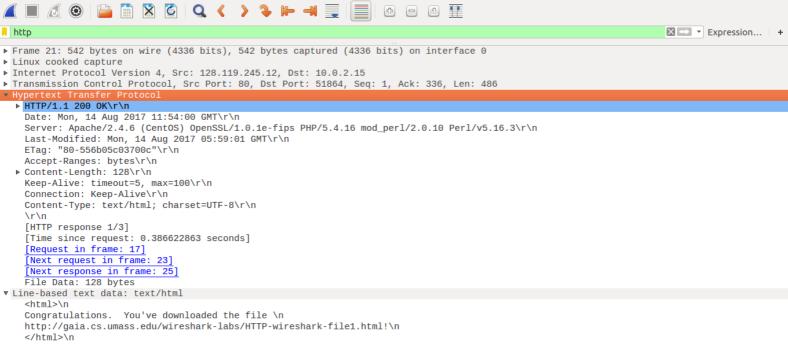
6. How many bytes of content are being returned to your browser?

Answer: 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.

Answer: no





part 02:

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?

Answer: No "IF-MODIFIED-SINCE" line.

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

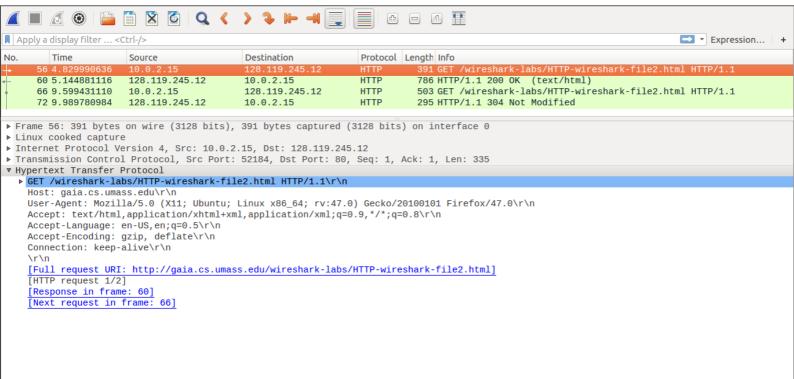
Answer: yes, server return the contents of the file.

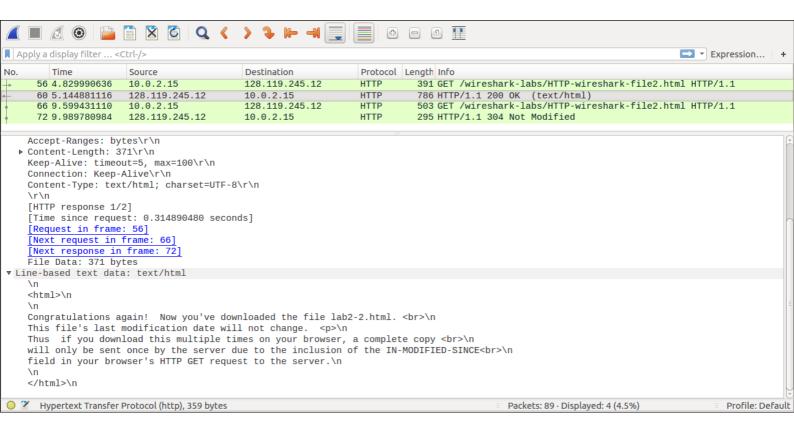
10. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE:" header?

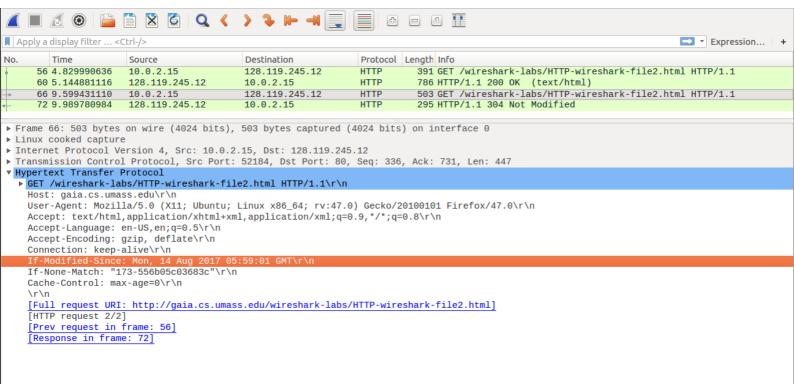
Answer: yes.

11. What is the HTTP status code and phrase returned from the server in respect to this second HTTP GET? Did the server explicitly return the contents of the file?

Answer: No, the file has not been modified, so the text of the file Is not returned in the HTTP message.



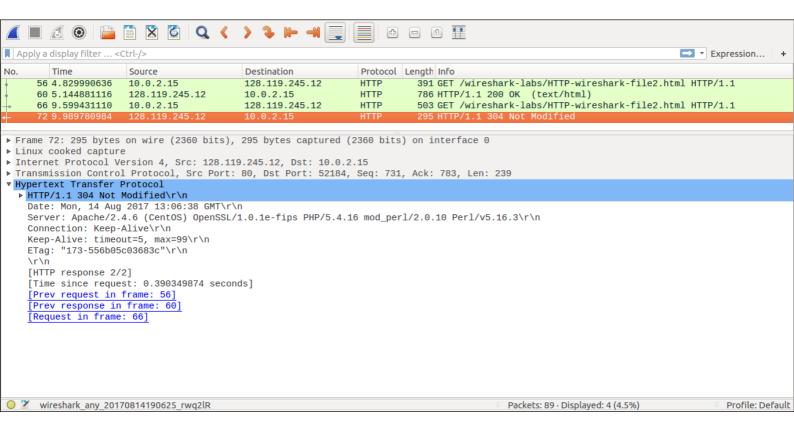




Packets: 89 · Displayed: 4 (4.5%)

Profile: Default

Request line (http.request.line), 50 bytes



Part 03:

12. 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?

Answer: 1 HTTP GET request. In my case, packet number 13 contains the GET message.

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

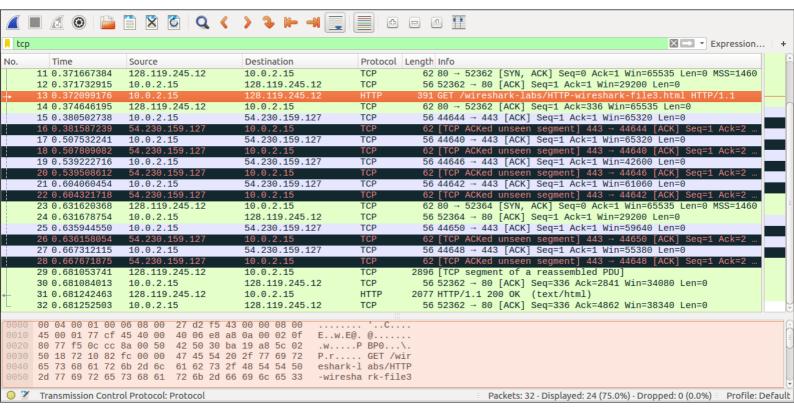
Answer: packet number 31.

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

Answer: 200 OK.

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

Answer: 3 TCP segments needed. They are in packet 14,23,29.



part 04

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

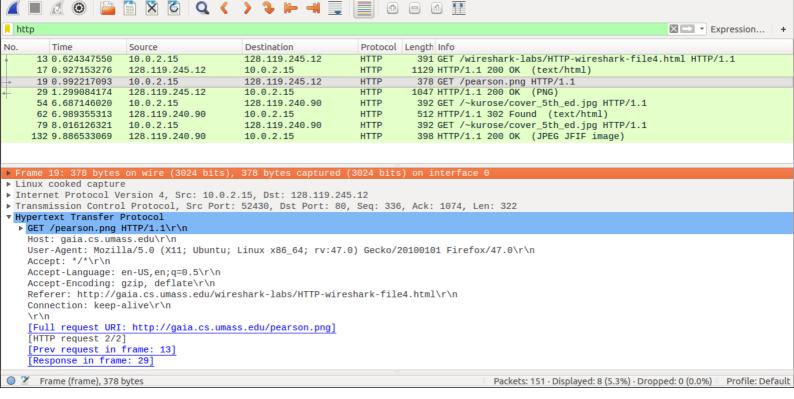
Answer: There are 4 HTTP GET request messages that my

browser send.

First one sent to: 128.119.245.12 second one sent to: 128.119.245.12 third one sent to: 128.119.240.90 fourth one sent to: 128.119.240.90

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.

Answer: The downloads occurred in serially. Here we see, first request for image in packet 19 and its response in packet 29. After that second request for image in packet 54 and its response in packet 62. So, after downloading first image, second image is downloaded. So, here downloads occurred in serially.



Part 05

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

Answer: First HTTP GET request in the packet 23. In the packet 27 server response with status code 401 and phrase 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?

Answer: The HTTP GET includes the Authorization: Basic: field

