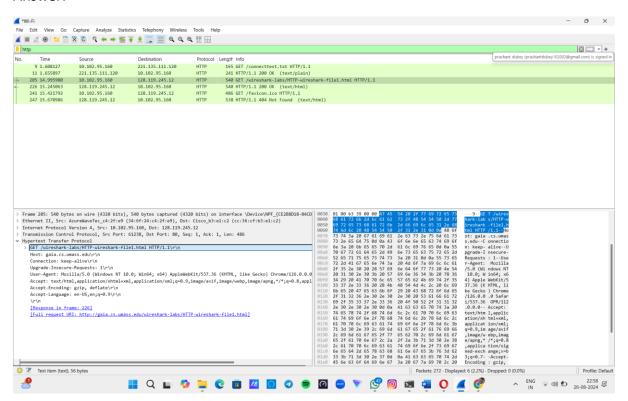
Computer Network: Wireshark HTTP Assignment 2

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

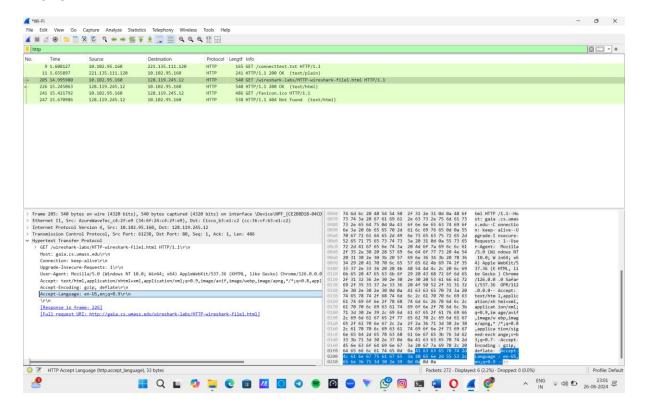
Answer:



HTTP Version 1.1

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

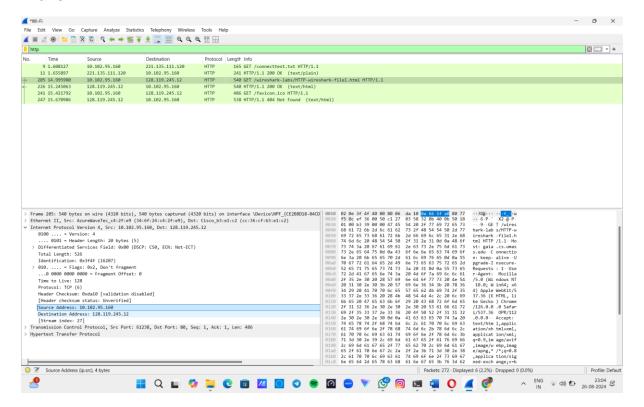
Answer:



The browser indicate that it can accept en-US, en to the server

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

Answer:

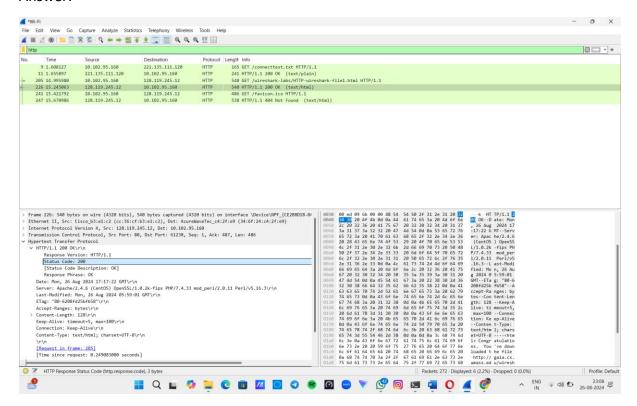


My IP Address: 10.102.95.160

IP Address of gaia.cs.umass.edu server is 128.119.245.12

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

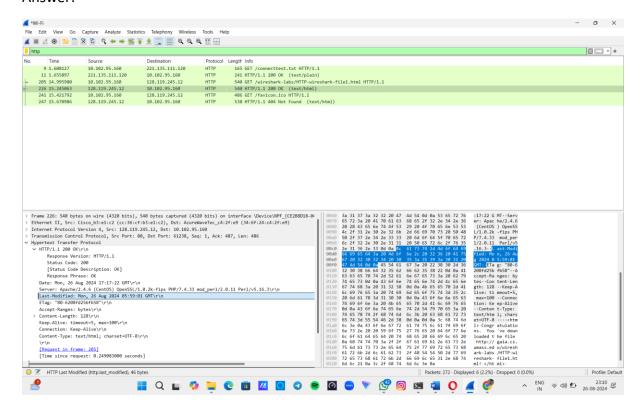
Answer:



Status code is 200

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

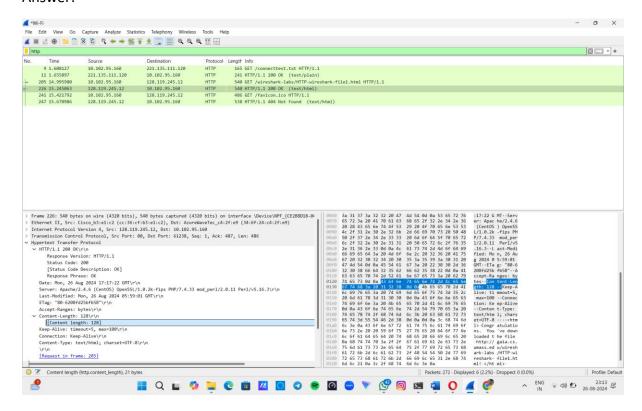
Answer:



Last Modified:Mon,26 Aug,2024

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

Answer:



Content Length – 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:

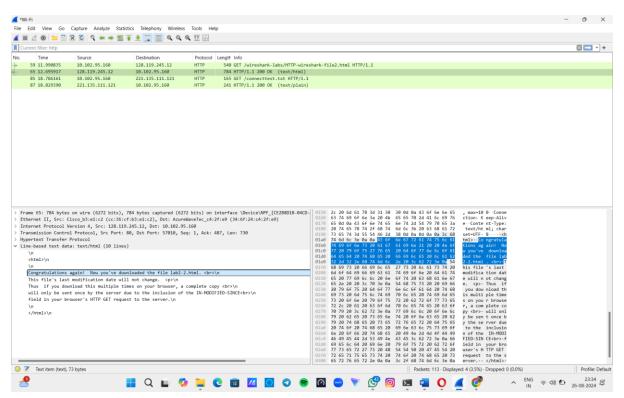
NO

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?

Answer:



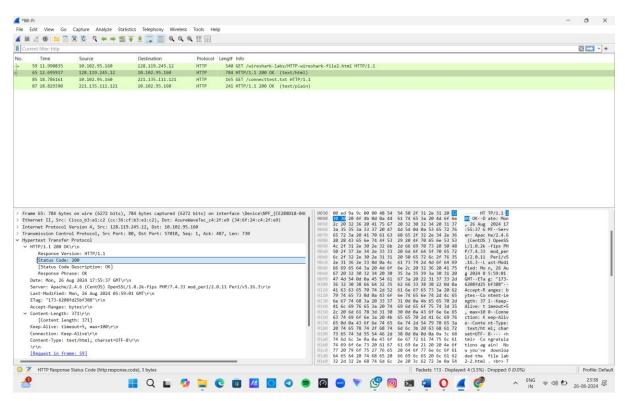
10. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE:" line in the HTTP GET? If so, what information follows the "IF-MODIFIED-SINCE:" header?

Answer:

NO

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.

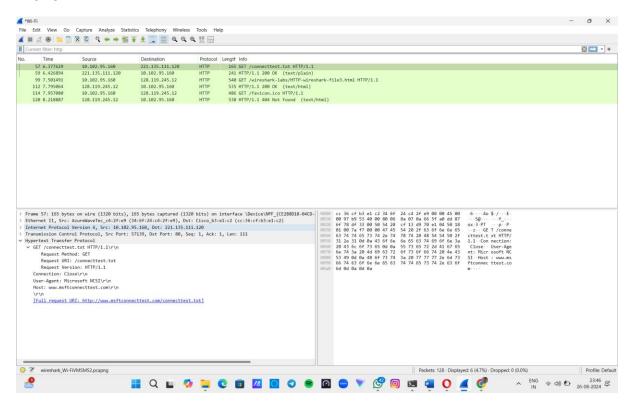
Answer:



Status Code-200, Phase: OK

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:

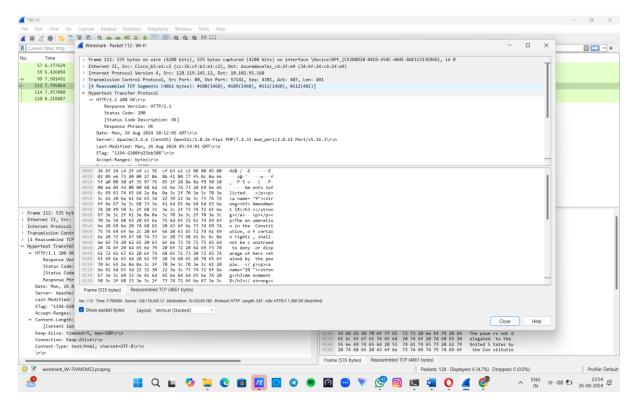


The Browser sent 3 HTTP requests.

Packet number 99

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

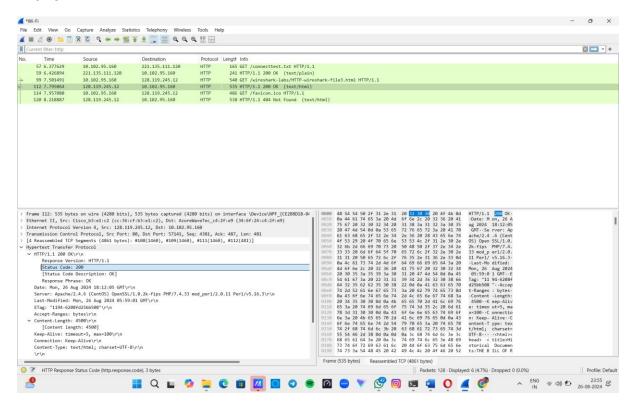
Answer:



Packet number 112 contains the given data

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

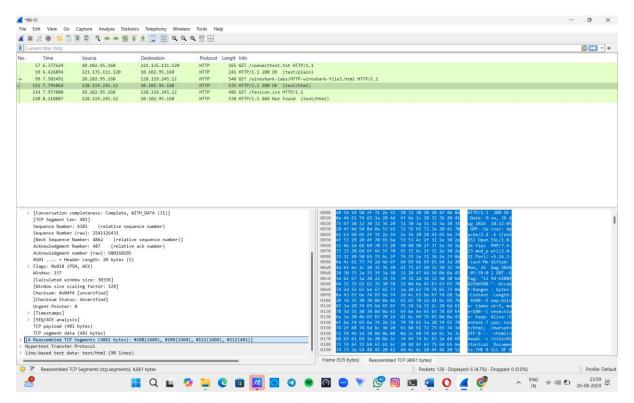
Answer:



Status code-200, the phase 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?

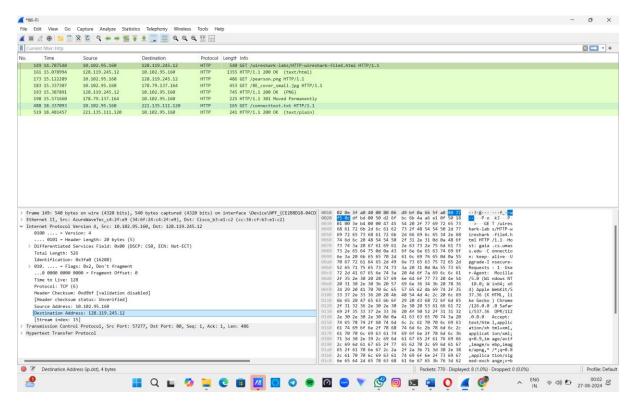
Answer:



4 TCP Segments.

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

Answer:



In total 4 HTTP GET request message were sent.

They were sent to:

Twice were sent to - 128.119.145.12

One were sent to - 178.79.137.164

One were sent to - 221.135.111.120

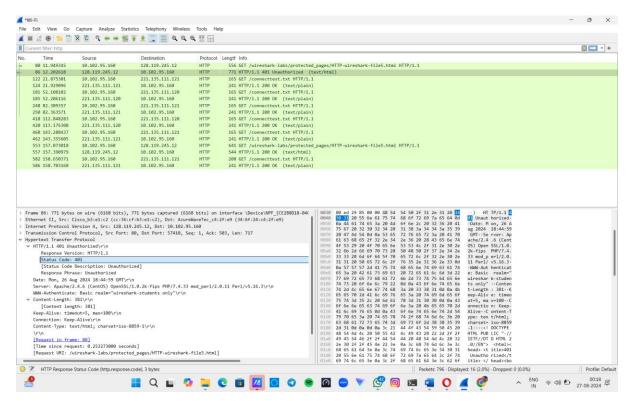
17. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.

Answer:

Yes the Two images were downloaded serially as it can be observed from the time stamps

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

Answer:



To the initial HTTP GET request from browser the response had the response had 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.

And in the response it show status code 200