

1. Is your browser running HTTP version 1.0, 1.1, or 2? What version of HTTP is the server running?
2. What languages (if any) does your browser indicate that it can accept to the server?
3. What is the IP address of your computer? What is the IP address of the gaia.cs.umass.edu server?
4. What is the status code returned from the server to your browser?
5. When was the HTML file that you are retrieving last modified at the server?
6. How many bytes of content are being returned to your 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.

Answers:

1. HTTP 1.1
 2. EN-US
 3. 10.0.0.4, 128.119.245.12
 4. 200
 5. Sat, 30 Jan 2021 06:59:02 GMT
 6. 128
 7. 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?
 9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?
 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?
 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.

Answers:

8. NO
 9. Yes
 10. Yes
 11. Not modified
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?
 13. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?
 14. What is the status code and phrase in the response?

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

Answers:

12. 1 req, 26 th packet

13. 32

14. Status 200, ok

15. 4 segments

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

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:

16. 4, 128.119.245.12, 178.79.137.164, 104.98.115.146

17. serially

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

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

Answers:

18. 401, unauthorized

19. Authorization header