

Name:

Group:

W2 - HTTP

1. The Basic HTTP GET/response interaction

1. capture filename:

1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running? – 0.5 pts.

Pckg. nr.:

Browser:

Pckg. nr.:

Server:

2. -

3. What is the IP address of your computer? Of the gaia.cs.umass.edu server? – 0.5 pts.

Pckg. nr.:

Internet address of your computer:

Internet address of the gaia.cs.umass.edu:

4. What is the status code returned from the server to your browser? (NOTE: Only the status code is required, without the phrase!!) – 0.5 pts.

Pckg. nr.:

Status code:

5. When was the HTML file that you are retrieving last modified at the server? – 0.5 pts.

Pckg. nr.:

Last-Modified (dd-mm-yy, HH:MM:SS - e.g.: 20-01-2024, 10:59:58):

6. How many bytes of content are being returned to your browser? – 0.5 pts.

Pckg. nr.:

Content-Length:

bytes

7. -

2. The HTTP CONDITIONAL GET/response interaction

2. capture filename:

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? – 0.5 pts.

Pckg. nr.:

Answer:

9. Inspect the contents of the server response. Did the server explicitly return the contents of the file? – 0.75 pts.

Pckg. nr.: 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? – 0.5 pts.

Pckg. nr.: Answer:

If-Modified-Since (dd-mm-yy, HH:MM:SS - e.g.: 20-01-2024, 10:59:58):

11. What is the HTTP status code returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? (NOTE: Only the status code is required, without the phrase!!) – 0.75 pts.

Pckg. nr.: Status code:

Answer:

3. Retrieving Long Documents

3. capture filename:

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? – 0.5 pts.

Number of request messages:

Pckg. nr.:

13. Which packet number in the trace contains the status code associated with the response to the HTTP GET request? – 0.5 pts.

Pckg. nr.:

14. What is the status code in the response? (NOTE: Only the status code is required, without the phrase!!) – 0.5 pts.

Pckg. nr.: Status code:

15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights? – 1 pts.

Pckg. nr.: Nr. of TCP segments:

4. HTML Documents with Embedded Objects

4. capture filename:

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

Number of request messages:

Package nr. of request messages (e.g. 12,23,33):

Internet address 1:

Internet address 2:

17. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? – 0.5 pts.

Image 1 response - Pckg. nr.:

Image 2 response - Pckg. nr.:

Answer:

5. HTTP Authentication

5. capture filename:

18. What is the server's response (status code) in response to the initial HTTP GET message from your browser? (NOTE: Only the status code is required, without the phrase!!) – 0.5 pts.

Pckg. nr.:

Status code:

19. When your browser's sends the HTTP GET message for the second time, what is the value of the "Authorization" field in the HTTP GET message? – 0.5 pts.

Pckg. nr.:

Authorization (Right click - Copy - Value):