# Lab 2 - HTTP

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CS327

1/23/2016

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

HTTP version 1.1

**2. What languages does your browser indicate that it can accept to the server running?**

en-US and en

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

Computer: 10.0.0.10

Umass: 128.119.245.12

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

200 OK

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

Last-Modified: Sat, 23 Jan 2016 06:59:01 GMT

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

194 bytes

**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.**

**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?**

Yes the server did send the contents directly. I can tell since it is in the “Line-based text data” section.

**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 there is a If-Modified-Since line that says “Sat, 23 Jan 2016 06:59:01 GMT”

**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.**

The server returned 304 Not modified, and no the file contents were not sent this time.

**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?**

The browser only sent one GET request. The packet was containing the GET request was the only one from my browser.

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

The first packet.

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

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?**

The server split it into 5 packets.

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

The browser sent 5 GET requests to the following (128.119.245.12, 165.193.140.14, 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.**

Based on the time and watching the website load I believe it was in parallel.

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

401 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?**

Authorization field with the credentials.