Vanessa Ulloa

Daniel Kushner

CST 311

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T7 – Lab 2

PART I

1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?
   1. HTTP/1.1 (both)
2. What languages (if any) does your browser indicate that it can accept to the server?
   1. Accept-Language: en-us
3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?
   1. 192.168.5.14
   2. 128.119.245.12
4. What is the status code returned from the server to your browser?
   1. 200 OK
5. What was the HTML file that you are retrieving last modified at the server?
   1. Tue, 12 May 2015 02:30:52 GMT
6. How many bytes of content are being returned to your browser?
   1. 128 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.
   1. No.

PART II

1. 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?
   1. No there is not one in the first GET
2. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?
   1. No it did not, as the response states 304 not modified
3. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE:” header?
   1. Yes it says If-Modified-Since: Tue, 12 May 2015 05:59:02 GMT
4. What is the HTTP; status code and phrase returned from the server in response to the second HTTP GET? Did the server explicitly return to the contents of the file? Explain.
   1. The response is HTTP/1.1 304 Not Modified, therefore the server did not return the contents of the file

PART III

1. 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?
   1. My Browser sent 1 HTTP GET messages. The eighth packet contained the bill of rights.
2. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?
   1. The tenth packet it returned contains the status code and response.
3. What is the status code and phrase in the response?
   1. 200 OK was the status code and phrase response
4. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?
   1. There were 3 TCP segments needed

PART IV

1. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?
   1. The browser sent 3 GET requests to the following address
      1. 128.119.245.12
      2. 165.193.140.14
      3. 134.241.6.82
2. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.
   1. The downloads were done in parallel. The request for the second picture was made before the replies with the images were received.

PART V

1. What is the server’s response (status code and phrase) in response to the initial HTTP GET message from your browser?
   1. The server packet response is status code and response is 401: Authorization Required
2. When your browser’s sends the HTTP GET message for the second time, what new field included in the HTTP GET message?
   1. The next Get message now contains a field called Authorization: Basic: