DC&CN Lab Practice

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CSE - 2

By looking at the information in the HTTP GET and response messages, answer the following questions.

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

Ans- HTTP version 1.1

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

Ans- en-US,en;q=0.9

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

Ans- The IP address of your computer 192.168.218.154 and IP address of the gaia.cs.umass.edu server is 128.119.245.12.

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

Ans- 200 OK Status Code is returned from the server to your browser.

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

Ans- Last-modified: Mon, 28 Aug 2023 05:59:01 GMT

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

Ans- 540 Bytes

Q.7 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?

Ans- No, there is no IF-MODIFIED-SINCE in the HTTP get message first sent.

Q.8 Inspect the contents of the server response (to the FIRST HTTP GET). Did the server explicitly return the contents of the file? How can you tell?

Ans- Yes, the server explicitly returned the contents of the file. Wireshark contains a section within the description of the data packet called “Line-based text data” which details the contents of the file. The received packet contained the same text input as the contents on my browser.

Q.9 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?

Ans- Yes, it was containing in the second HTTP GET message. The information contained is the date and time I last entered the webpage. This is what is shows: If-Modified-Since: Mon, 28 Aug 2023 05:59:01 GMT

Q.10 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.

Ans- The contained HTTP status code is 304: Not Modified. The server did not retrieve the contents of the file as it retrieved the contents from its cache. Due to the contents not being modified since the last time the server was accessed, it instead told the browser to retrieve the old file from its cached memory.