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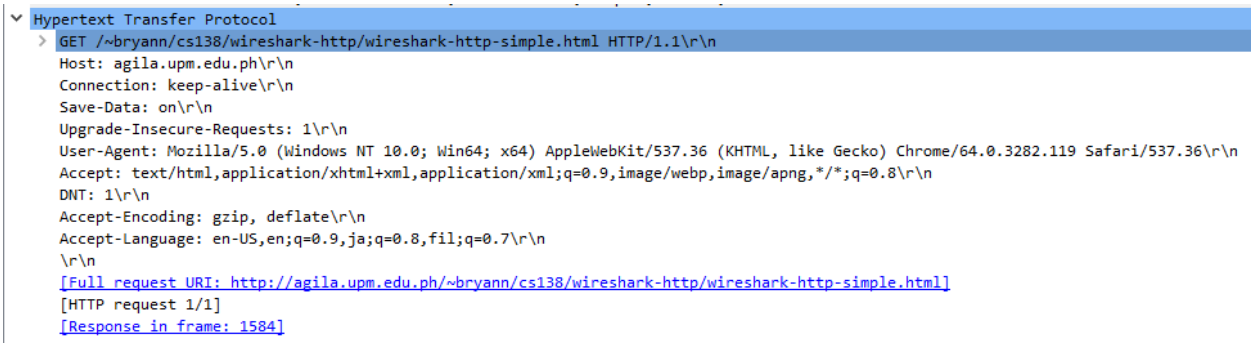
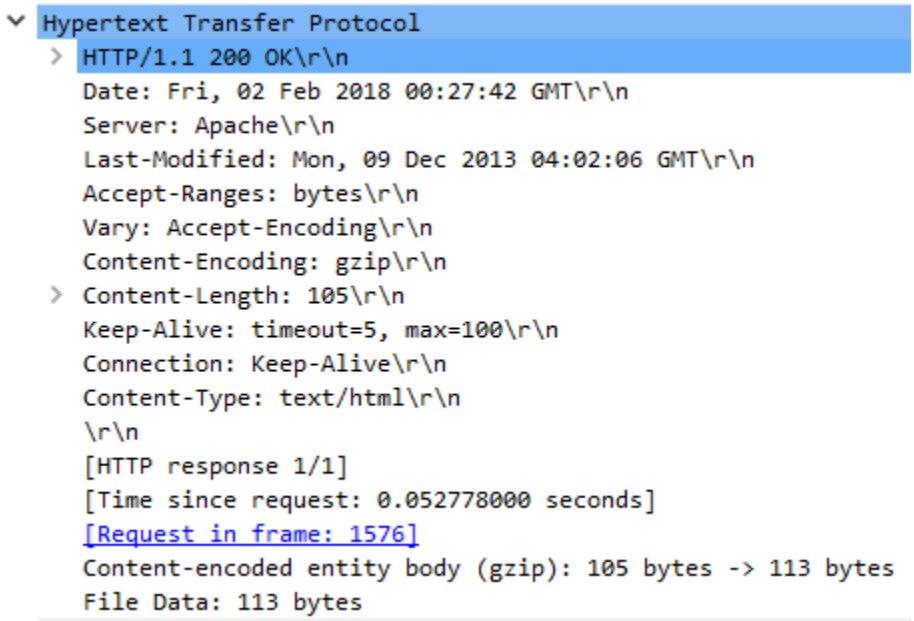
2015-07104

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

My browser is running **HTTP version 1.1**.

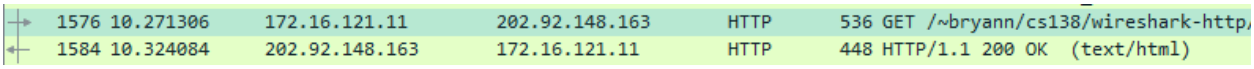


The server is running **HTTP version 1.1**.

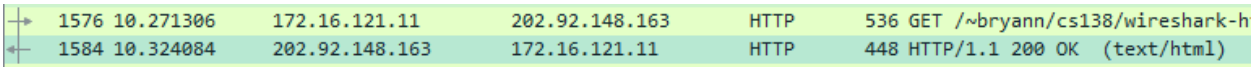


2. What is the IP address of your computer? Of the agila.upm.edu.ph?

The IP address of my computer is **172.16.121.11**.

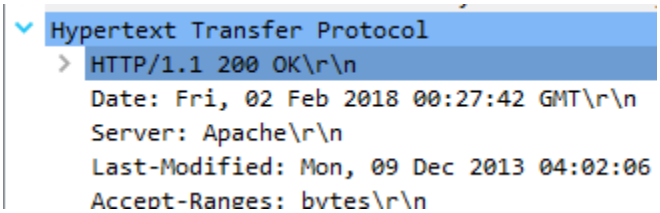


The IP address of agila.upm.edu.ph is **202.92.148.163**.



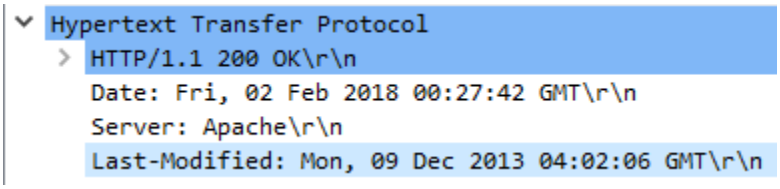
3. What is the status code returned from the server to your browser?

The status code returned from the server is **200**.



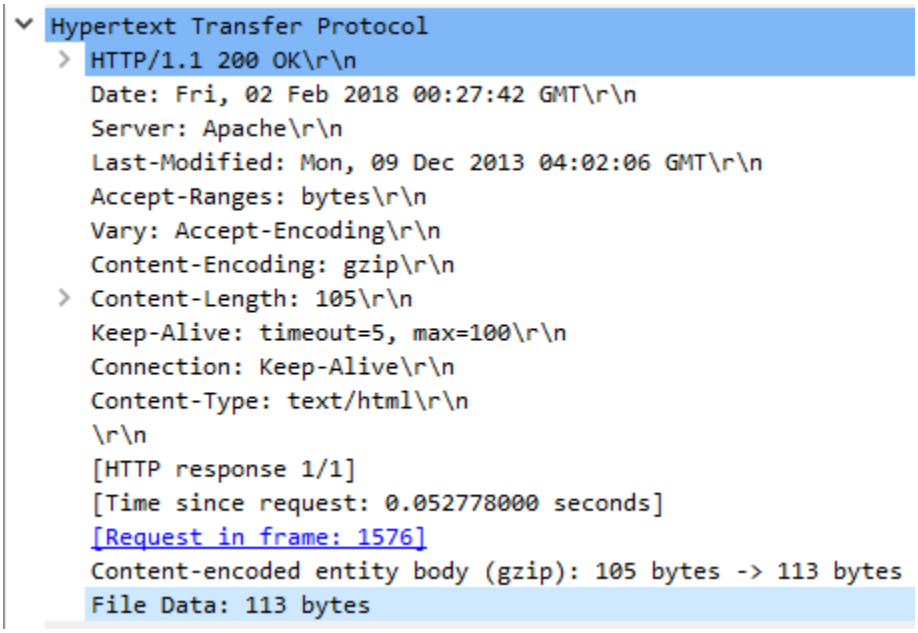
4. When was the HTML file that you are retrieving (in MNL time) last modified at the server?

The HTML file was lasted modified (in MNL time) on **Mon, 09 Dec 2013, 12:02:06 GMT+8**.



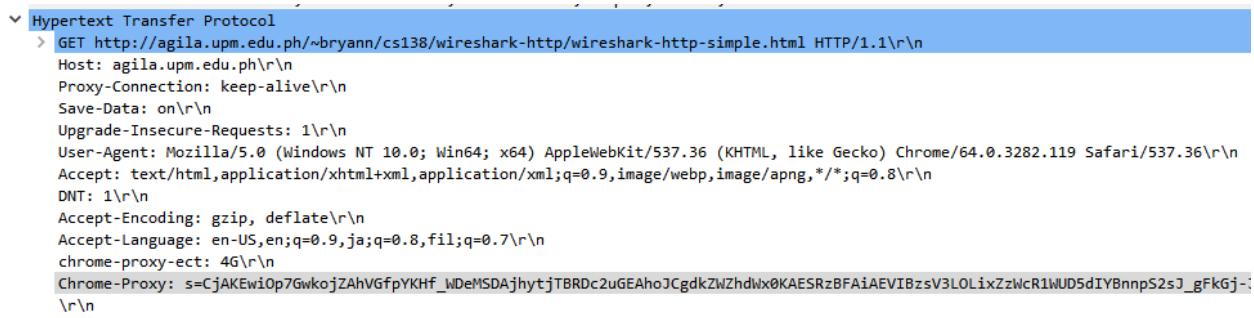
5. How many bytes of content are being returned to your browser?

113 bytes



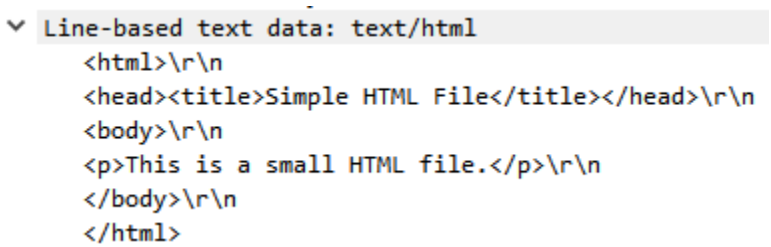
6. Inspect the contents of the first HTTP-GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?

No.



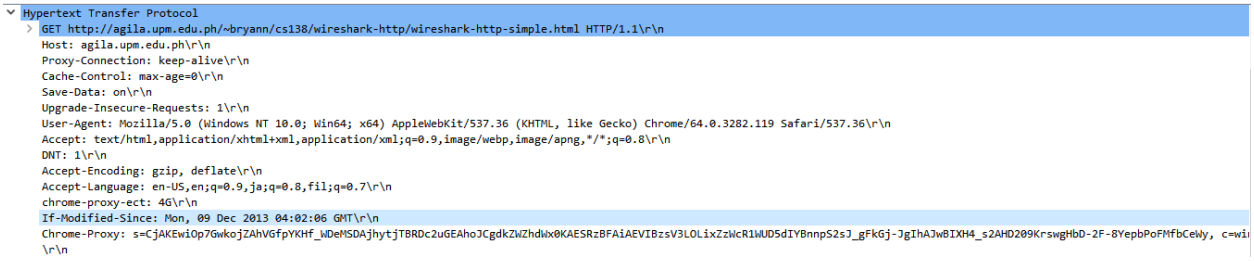
7. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

Yes, because the server response contains line-based text data.



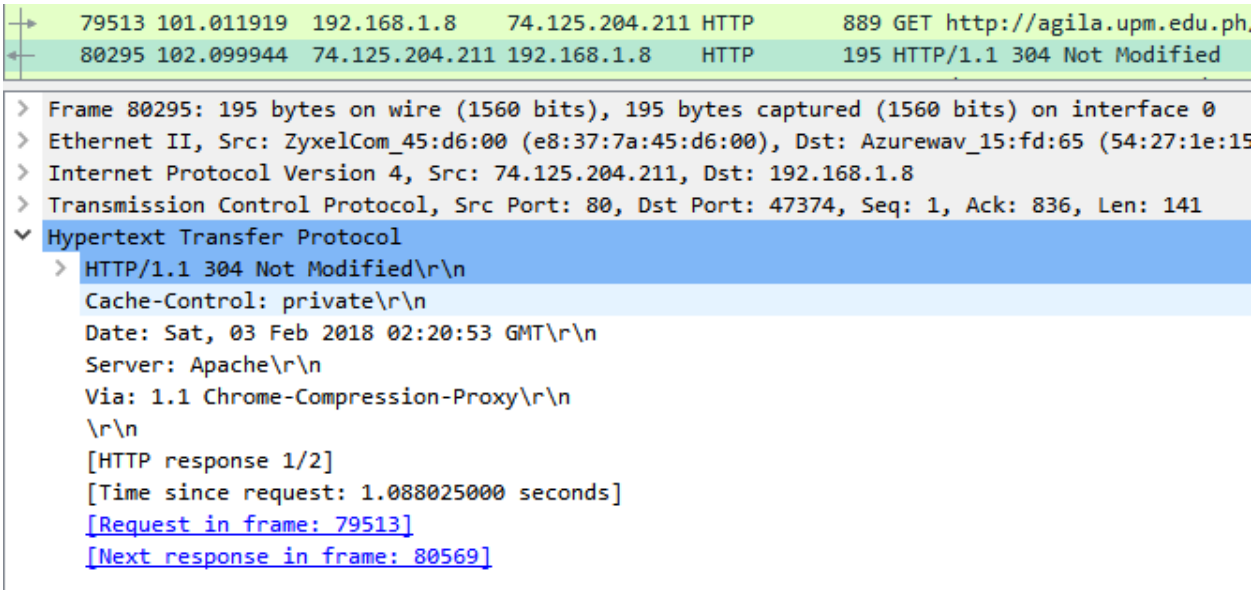
8. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE” line in the HTTP GET? If so, what information follows the “IF-MODIFIED-SINCE” header?

Yes. The information that follows the If-Modified-Since header is the **Chrome-Proxy** header.



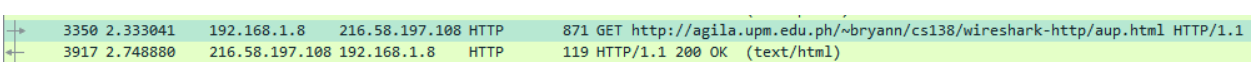
9. What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

The server returned the HTTP status code **304 Not Modified**, and did not explicitly return the contents of the file, because a local file is already stored in the cache, and the original file on the server has not been modified by the data set by the HTTP GET request above, therefore, it did not explicitly send the file.



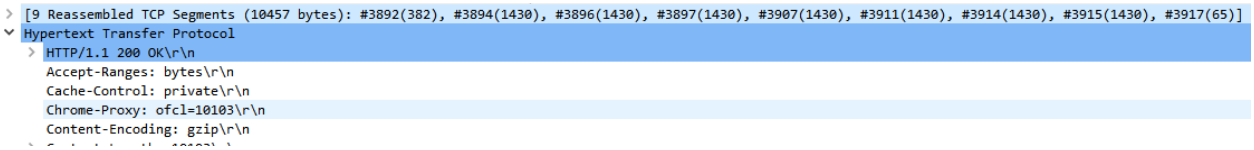
10. How many HTTP GET request messages were sent by your browser?

Only **1** HTTP GET request message was sent.



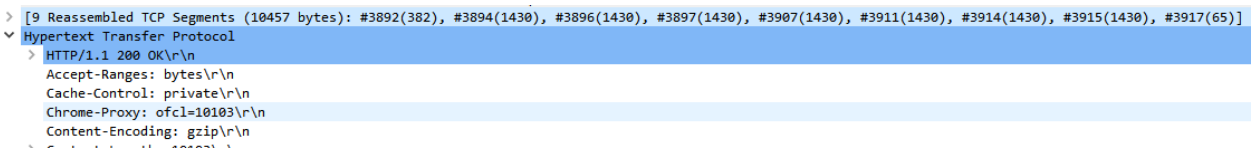
11. How many data-containing TCP segments were needed to carry the single HTTP response?

The number of data-containing TCP fragments needed was **9**.



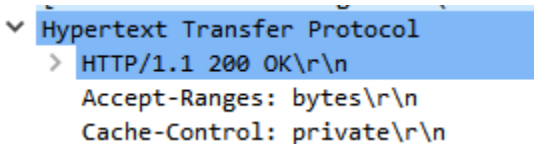
12. How did you know that a particular response was fragmented into multiple parts?

Wireshark's interface shows "Reassembled TCP Segments" that indicates that a response was fragmented into multiple parts. Like the screenshot above:



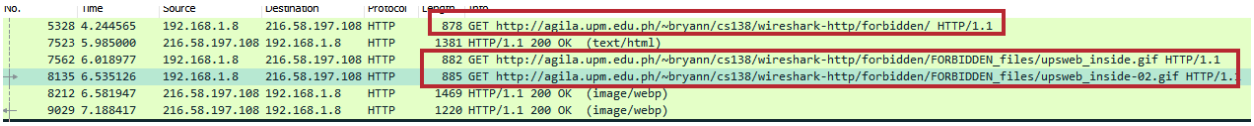
13. What is the status code and phrase associated with the response to the HTTP GET request?

200 OK was returned.



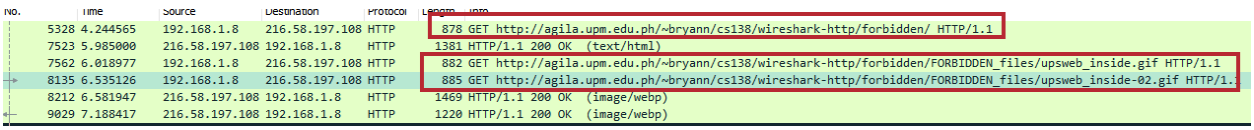
14. How many HTTP GET request messages were sent by your browser to retrieve all the objects that were displayed by the browser?

3 HTTP GET request messages were sent.



15. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain.

The two images were downloaded serially as the two requests were also sent serially, one after the other, and if they were running in parallel, they would have been returned in the same time.



16. You should be able to capture the packet that contain the username and password that you have just entered in the login. Show the packet that contains the username and password.