Computer Networking

(CSE 311)

HTTP Lab using Wireshark

Submitted By:

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Roll: 1301

BSSE 13th batch

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Submitted To:

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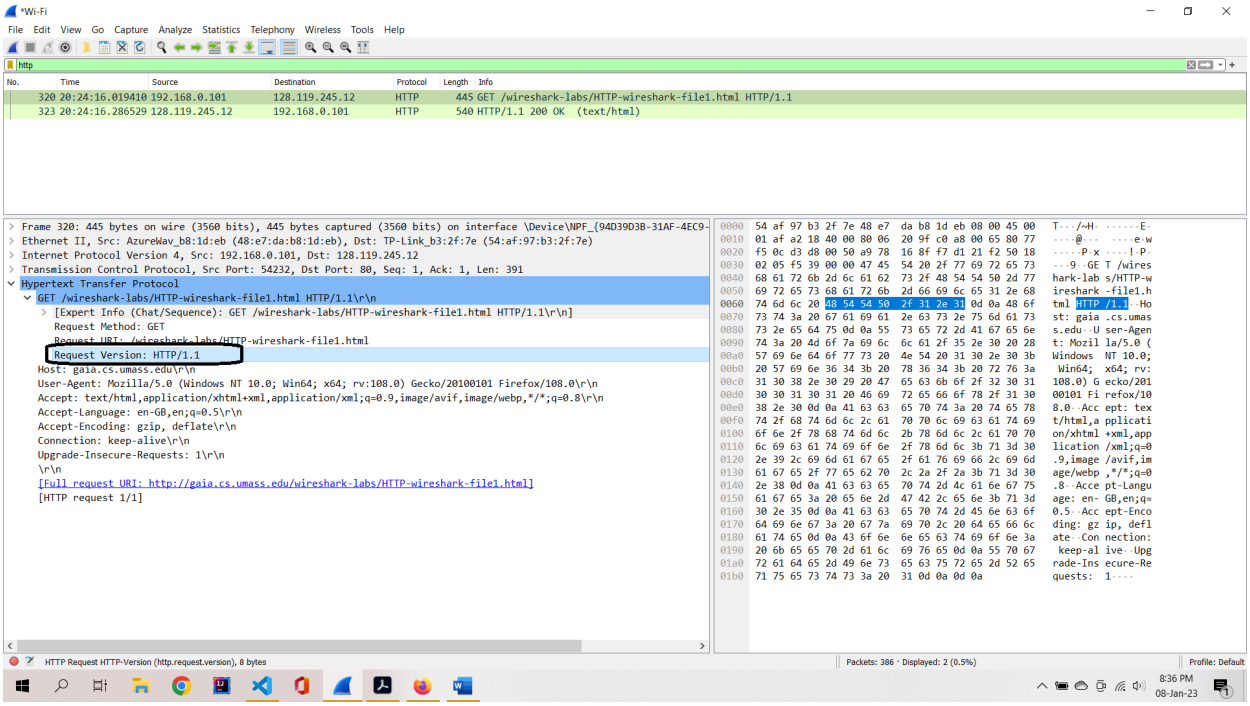
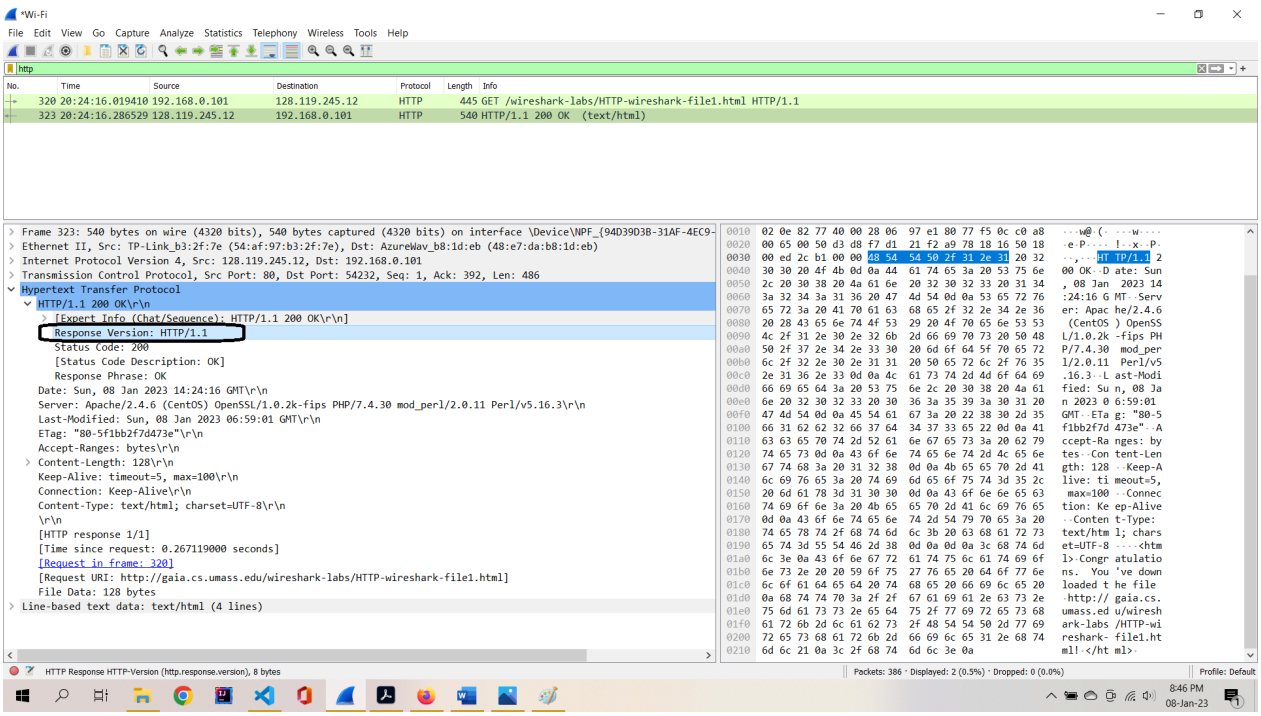
Answer 1:

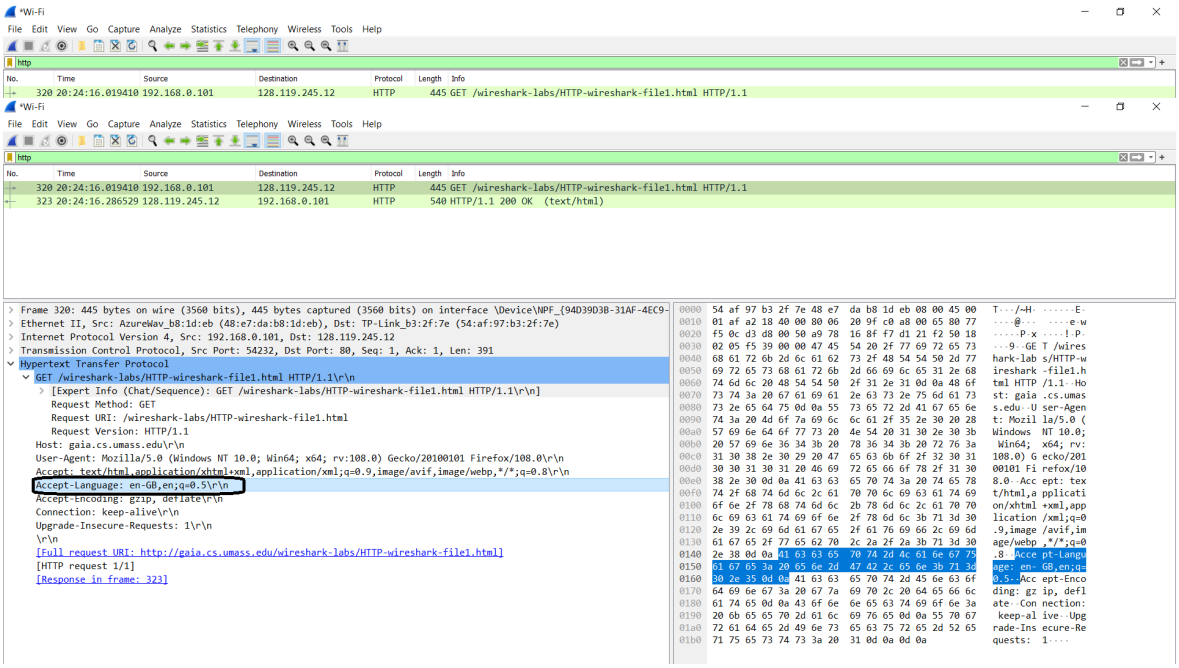


My browser runs http version: 1.1



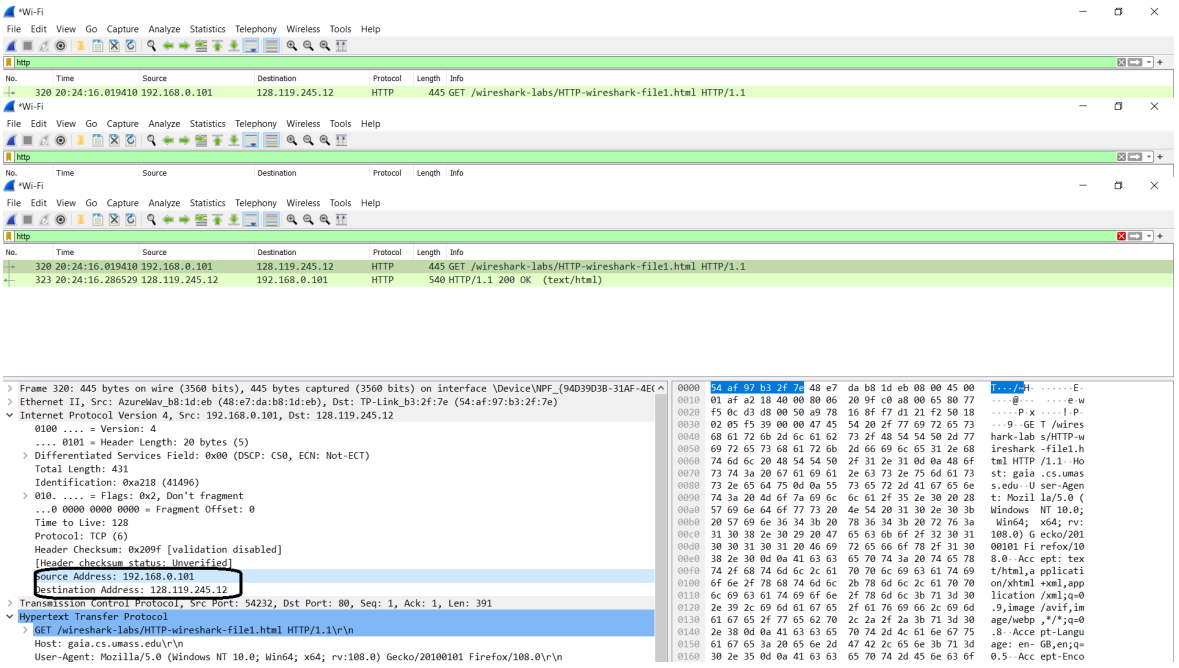
Server runs http version: 1.1

Answer 2:



Accept languages : en-GB,en;q=0.5\r\n

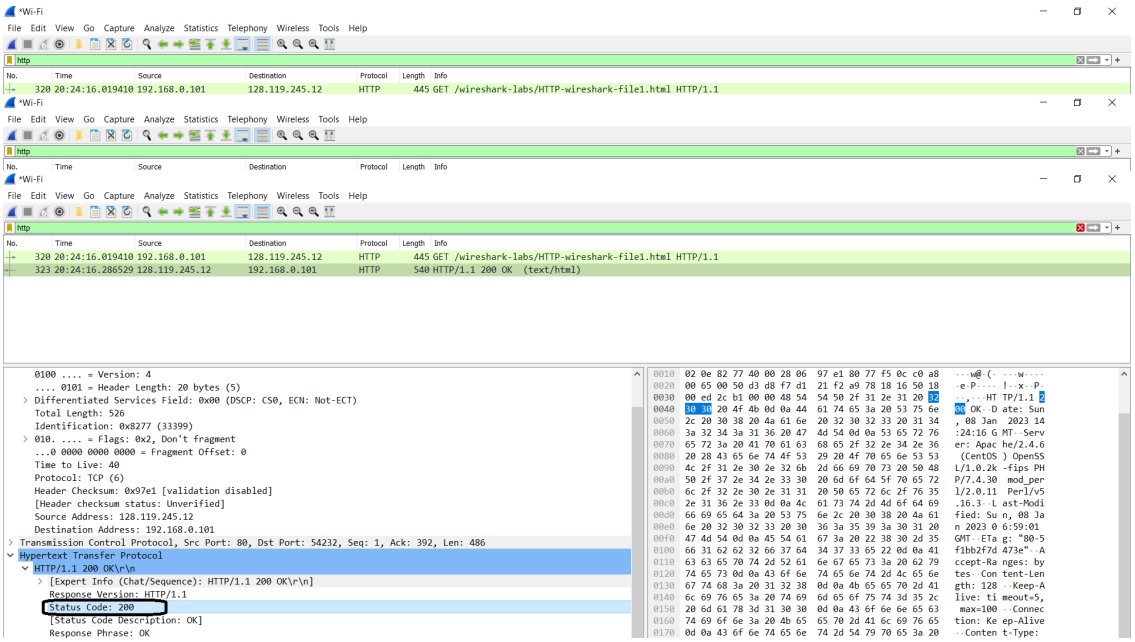
Answer 3:



IP address of my computer: 192.168.0.101

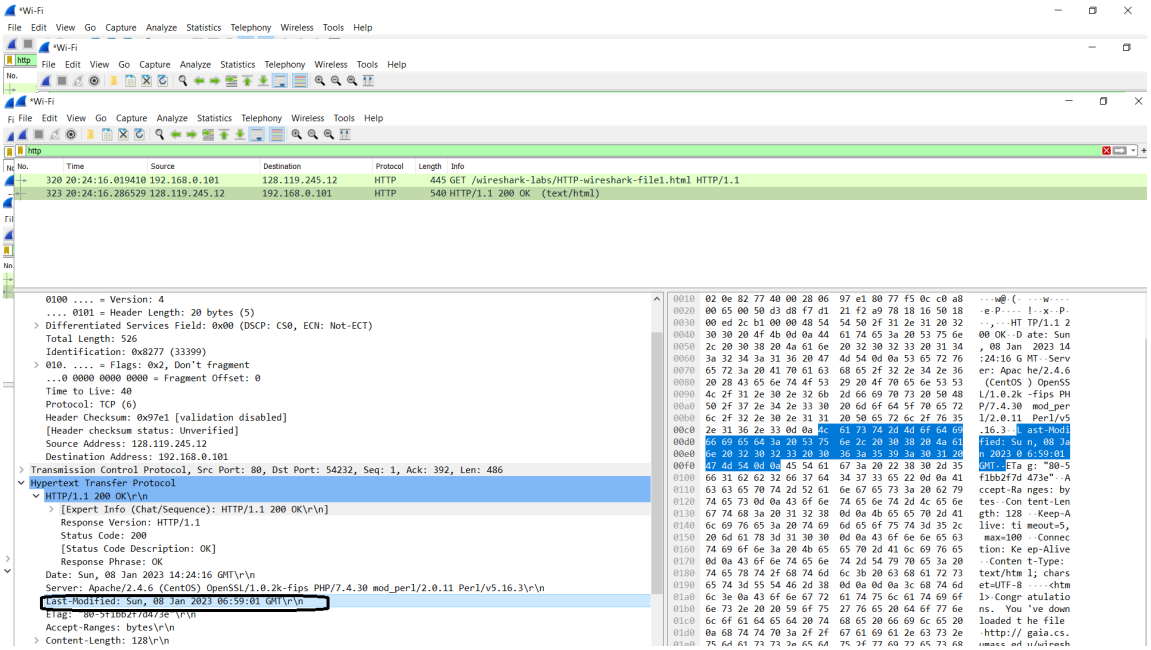
IP address of server: 128.119.245.12

Answer 4:



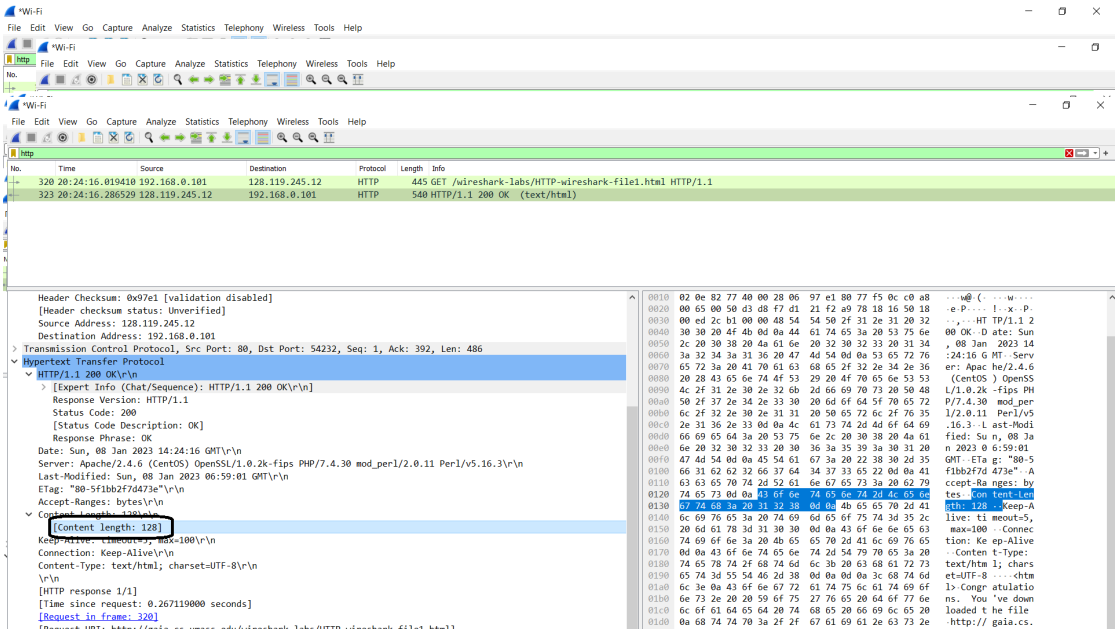
Status code: 200

Answer 5:



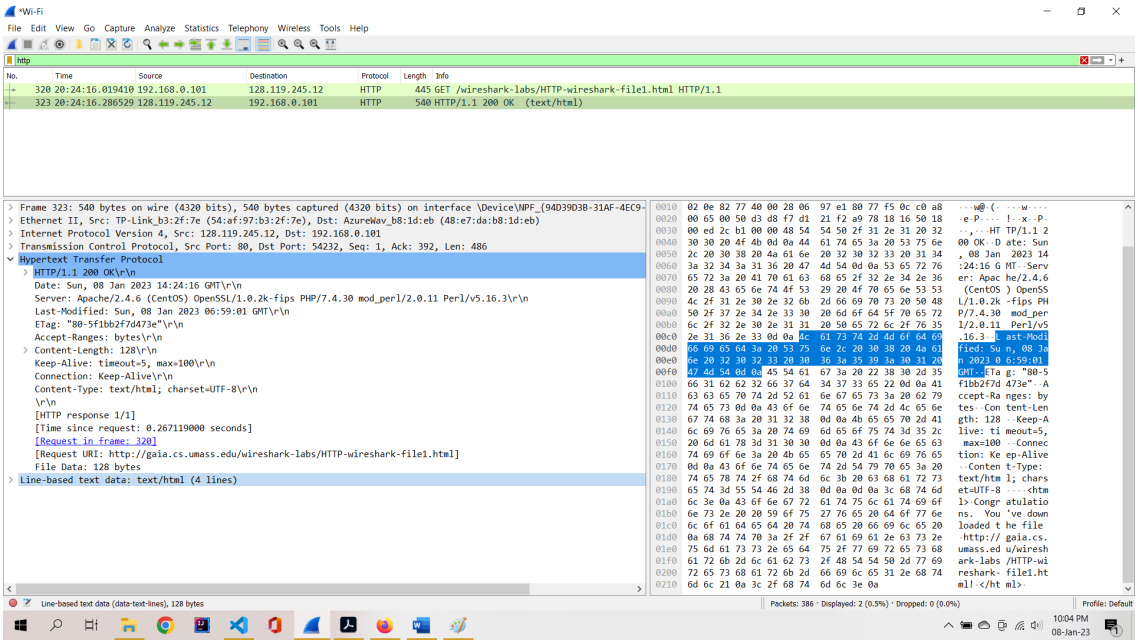
Last modified: sun, 08 jan 2023 06:59:01 GMT\r\n

Answer 6:



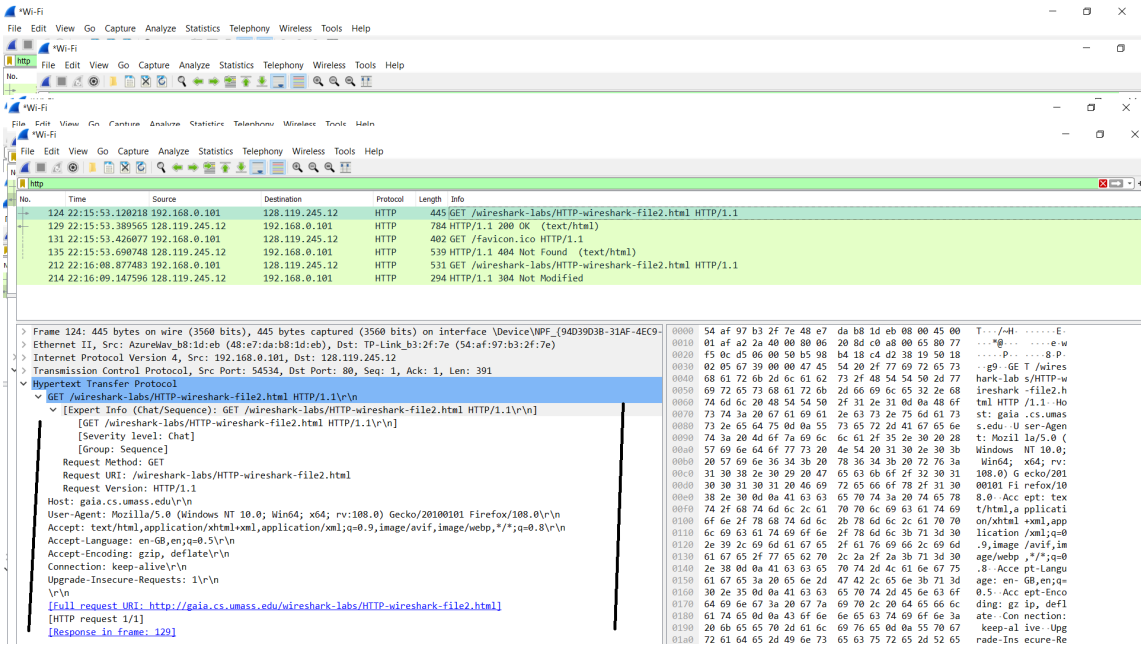
Content length: 128 bytes

Answer 7:



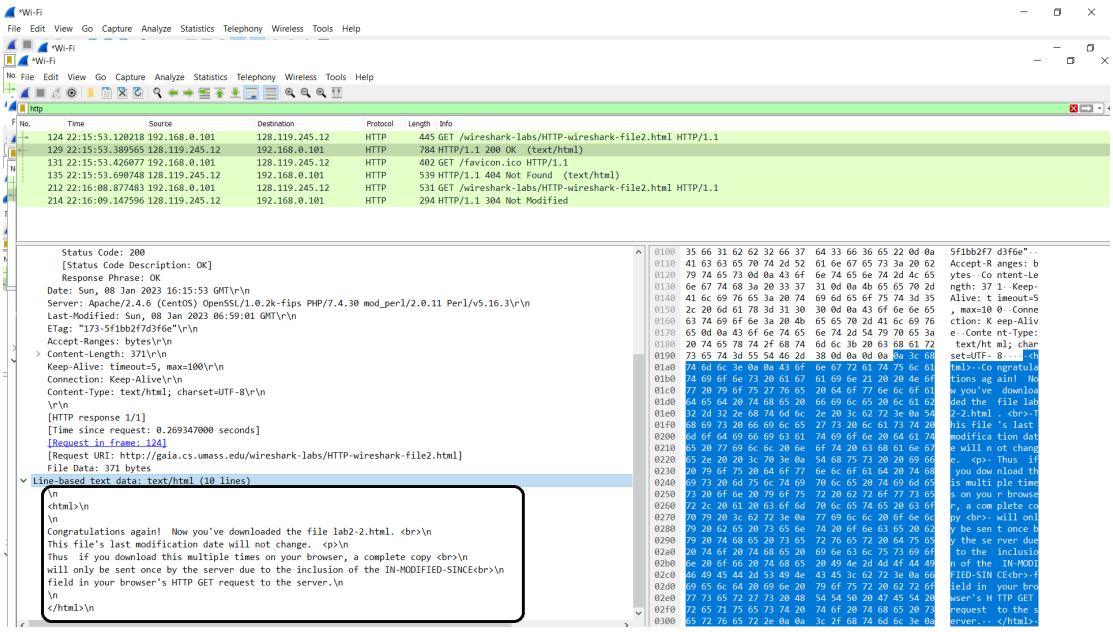
No. there is not any type header file that is in raw data but not in the packet listing window.

Answer 8:



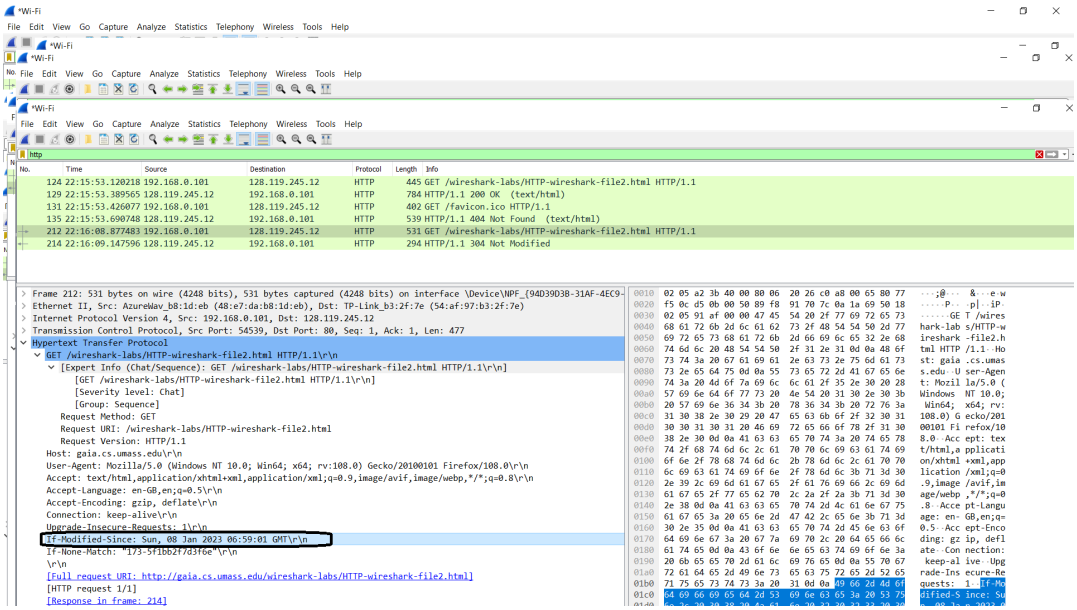
No. I don't see any "IF-MODIFIED-SINCE" line in HTTP GET.

Answer 9:



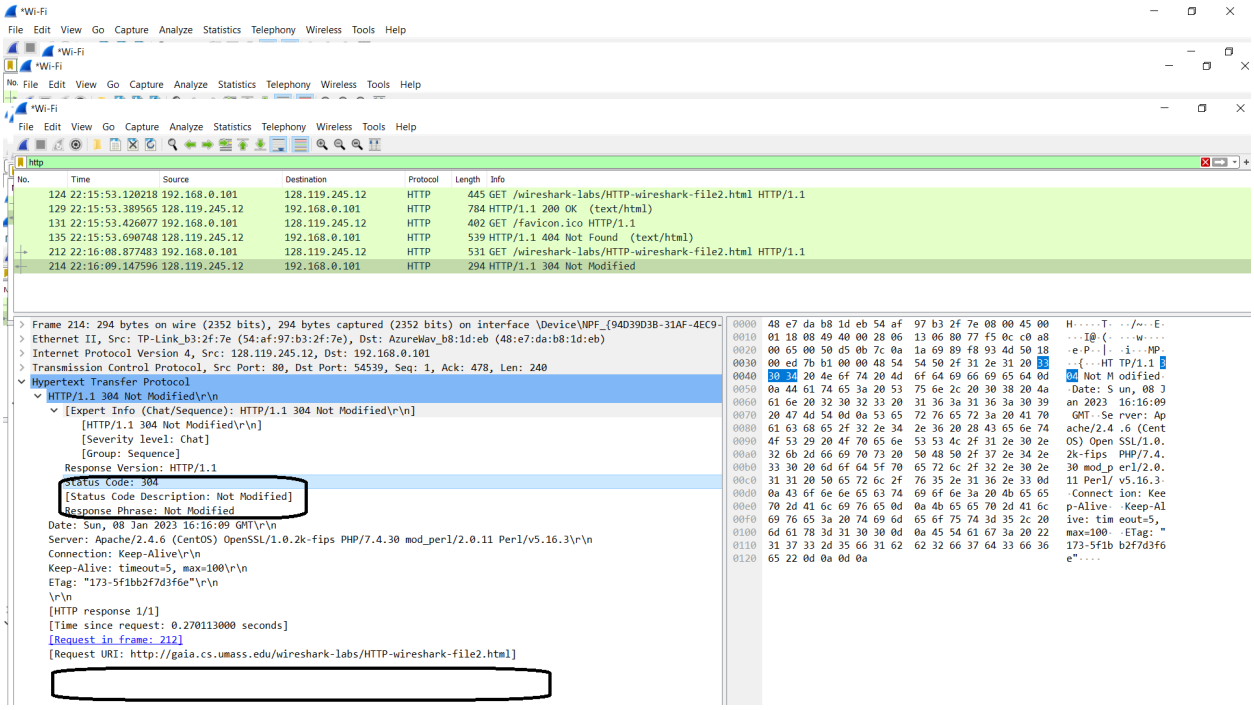
Yes. The server explicitly returns the contents of the file. (shown inside the black box in the image).

Answer 10:



Yes. I see “IF-MODIFIED-SINCE” line int HTTP GET. IF-MODIFIED-SINCE header follows the information of the time when the file was last modified. We can see the “last-modified” time in the first response message.

Answer 11:

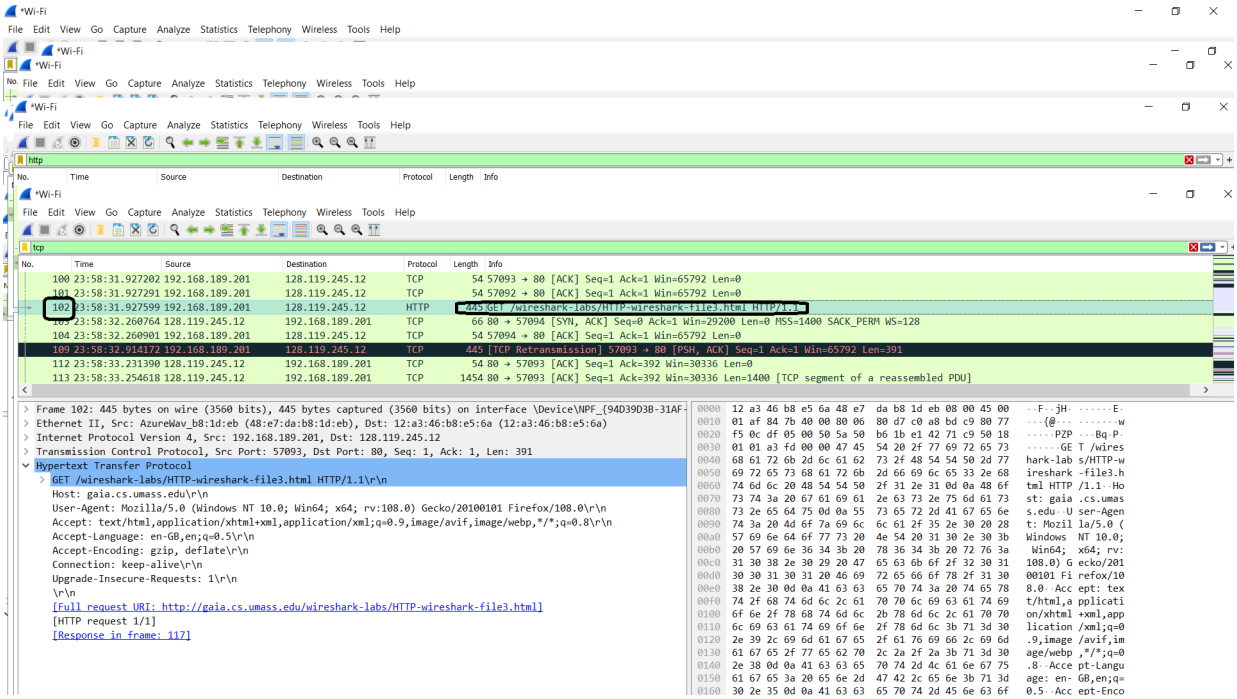


Status code: 304

Response phrase: Not Modified

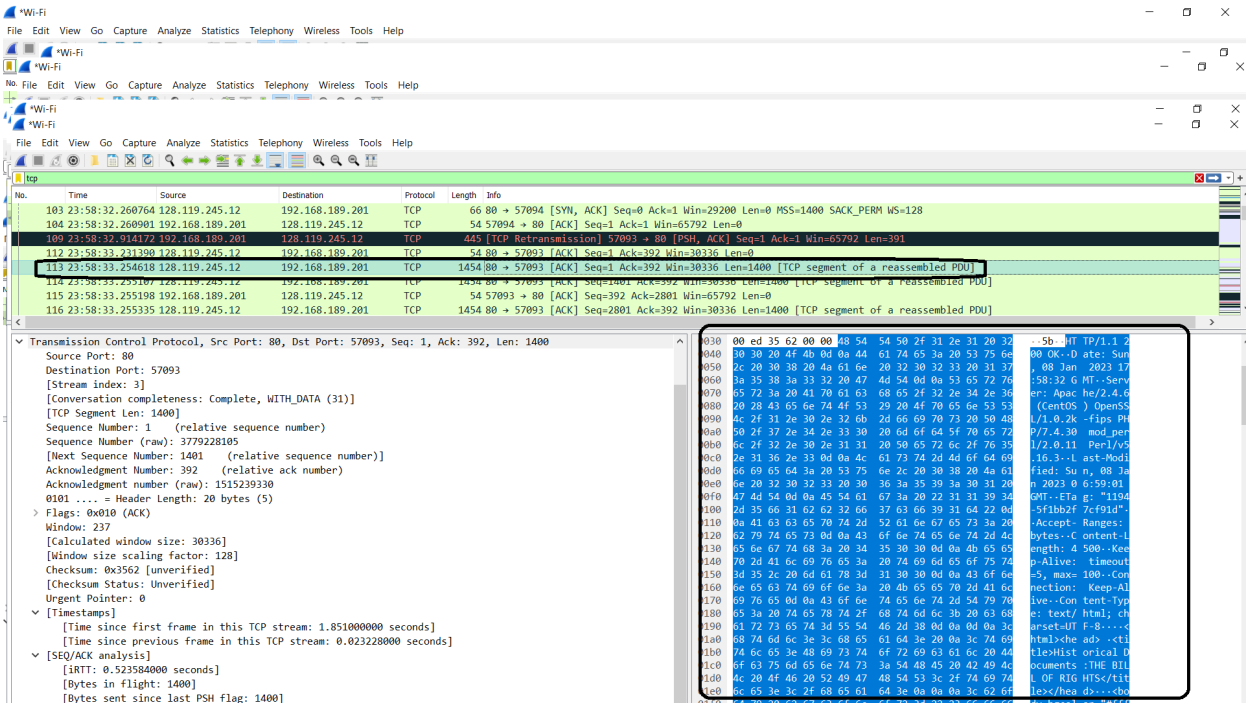
We can see that this time, server explicitly didn't return the contents of the file. Since the file has not been modified.

Answer 12:



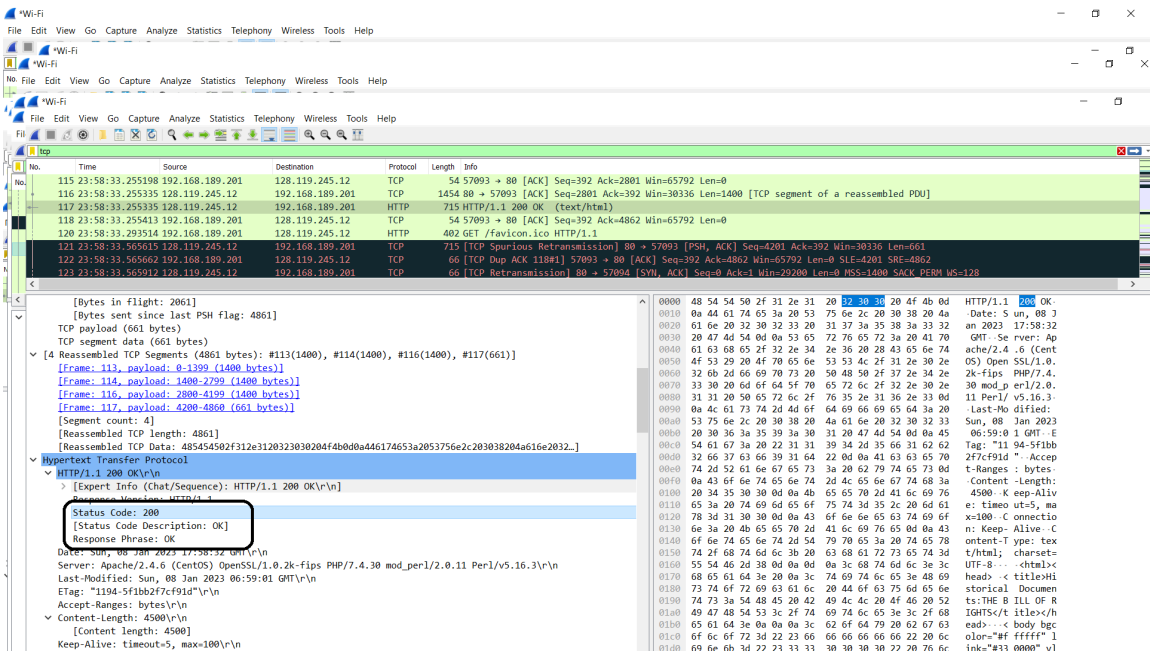
Browser sent 1 HTTP GET request message. Packet number 102 contains the GET message for BILL of RIGHTS.

Answer 13:



Packet number 113.

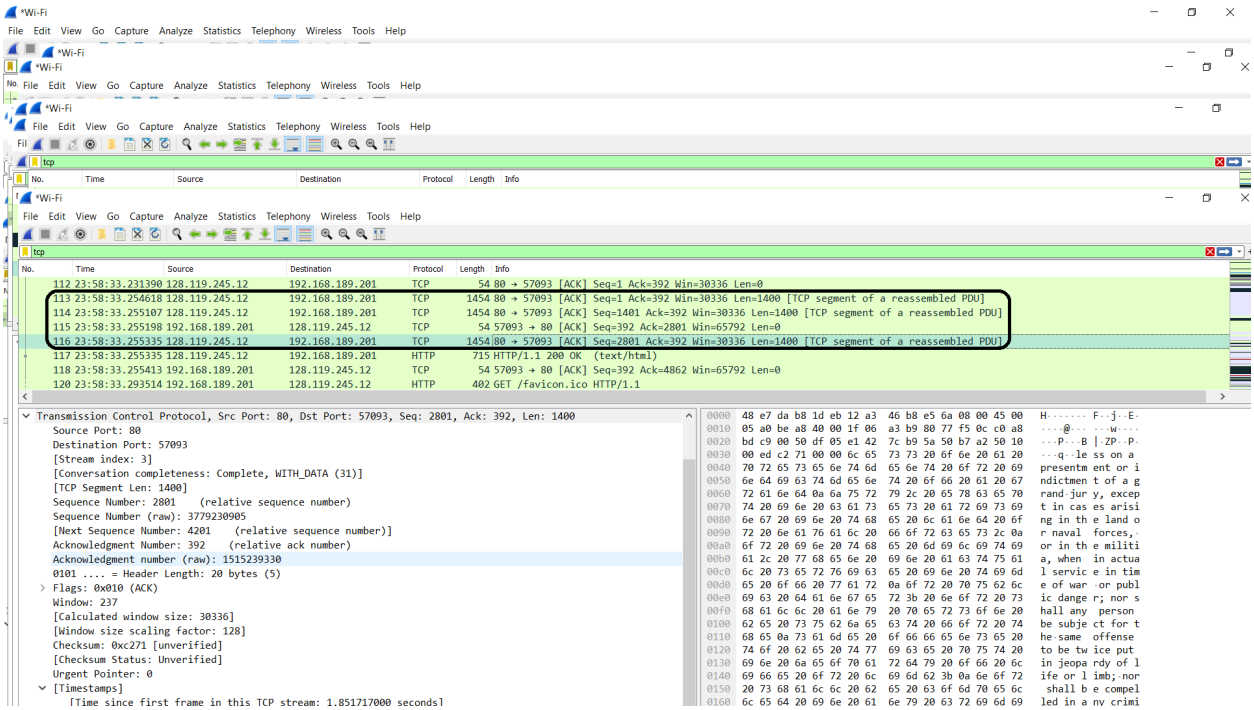
Answer 14:



Status code: 200

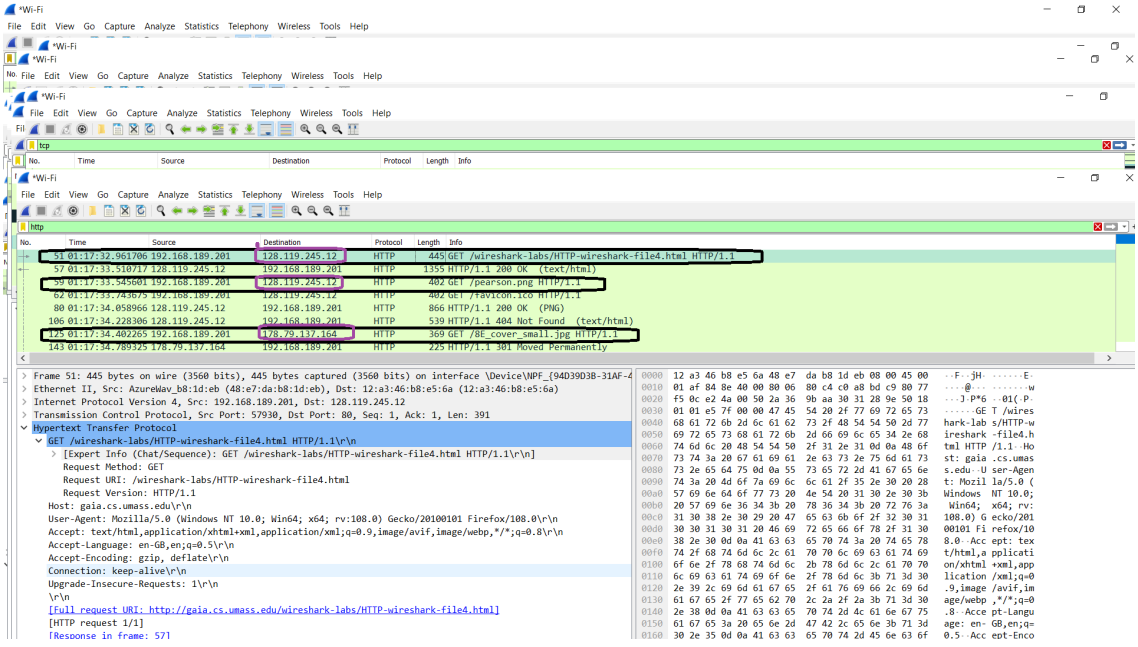
phrase: Ok

answer 15:



Three segments. (113,114,116 in the trace).

Answer 16:



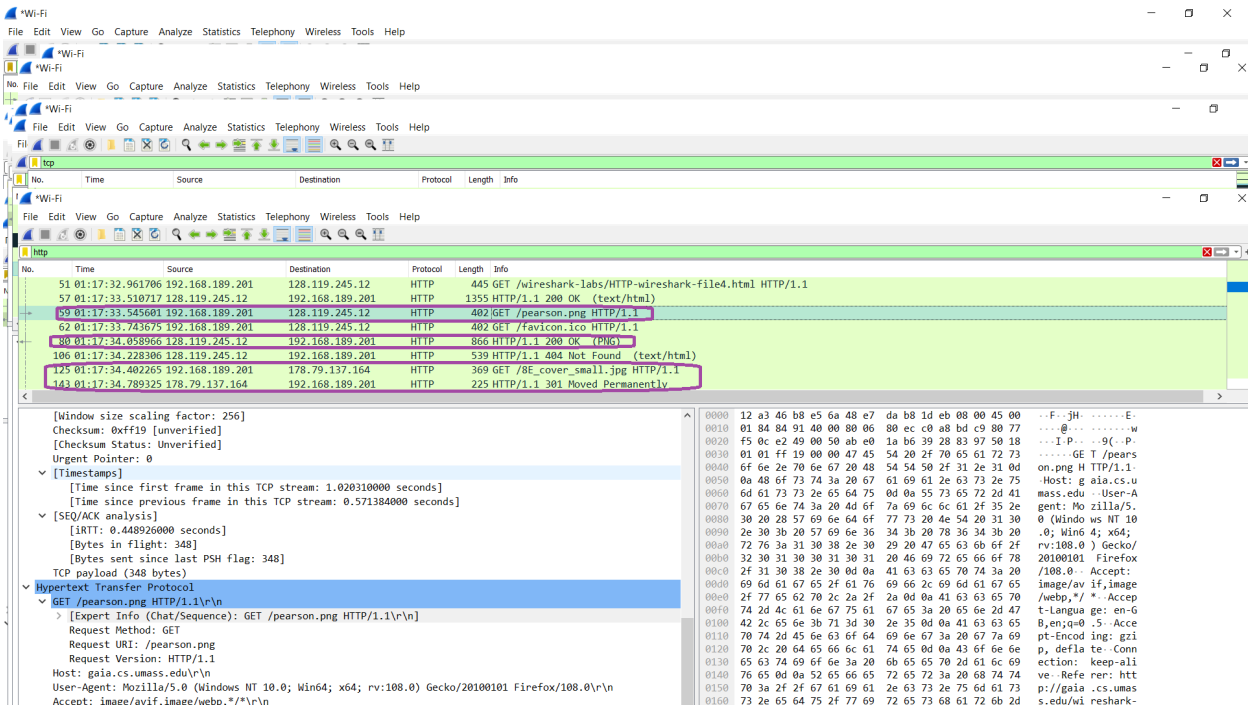
Three HTTP GET request messages were sent. These were sent to IP addresses→

a) 128.119.245.12

b) 128.119.245.12

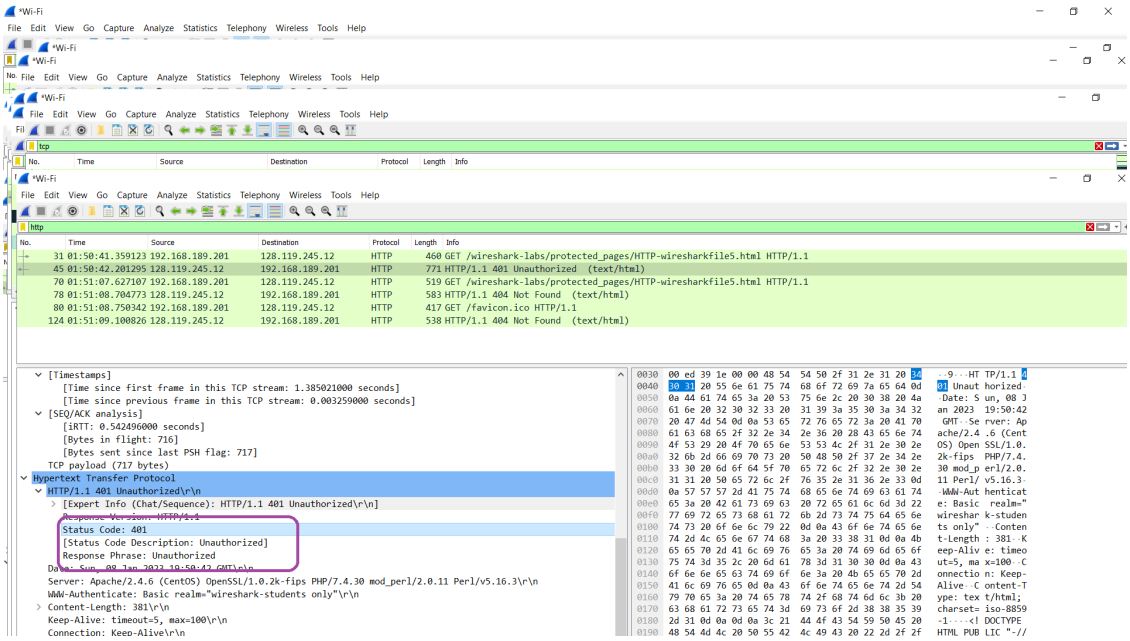
c) 178.79.137.164

Answer 17:



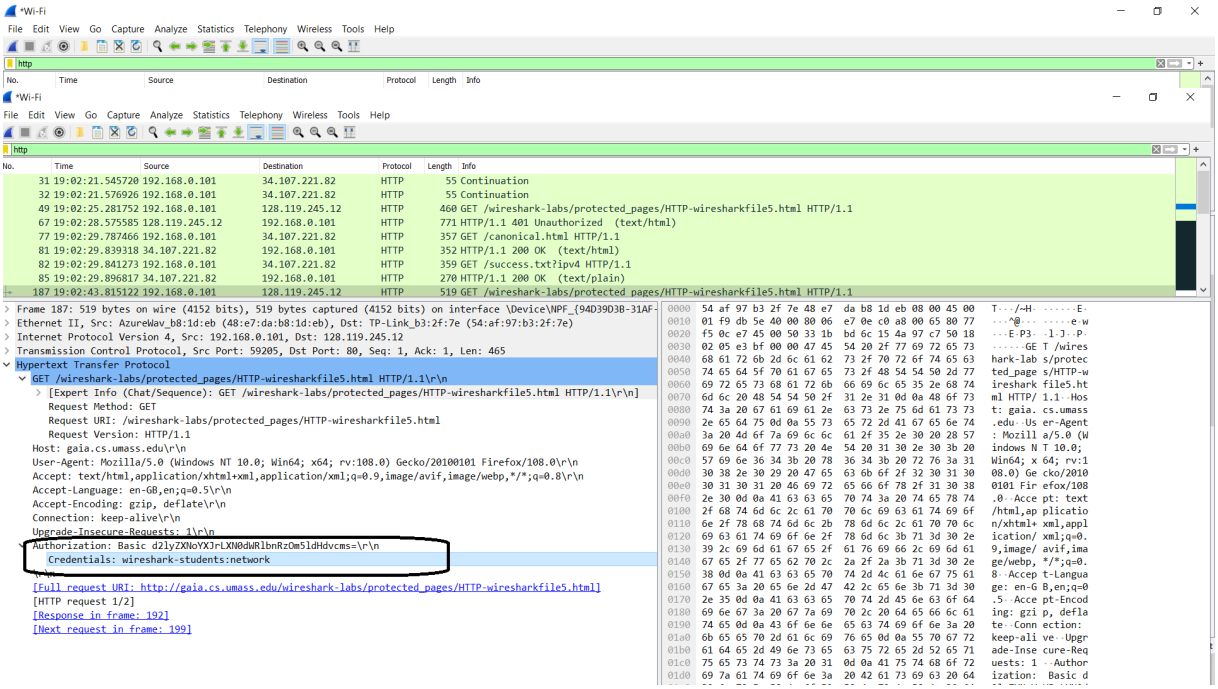
The two images were downloaded from two websites serially. Because GET message for first image was in 59th packet and GET message for the second image was in 80th packet. As the response message for the first GET message for the first image was in 62nd packet which is before 80th packet. So, they were download from two websites serially.

Answer 18:



Status code: 401 and Phrase: Unauthorized

Answer 19:



(**Authorization: Basic**) field is newly included in HTTP GET message. Under this field, there is credentials information (username and password).