In Class 4 : HTTP Lab1

- Exercise นี้นำมาจาก HTTP Lab ของ Kurose

Computer lab .....224.....

LAN หรือ WiFi (ให้ใช้ network สถาบัน) .....LAN.....

Section .....1..... Group Name .....Lan.....

รหัสนักศึกษา .....65050368..... ชื่อ สกุล .....ธนอัทร์ เกิดเปี่ยม.....

เครื่องคอมพิวเตอร์ที่ใช้ (หมายเลขครุภัณฑ์) .....65ทท.7440-22-01-0029.....

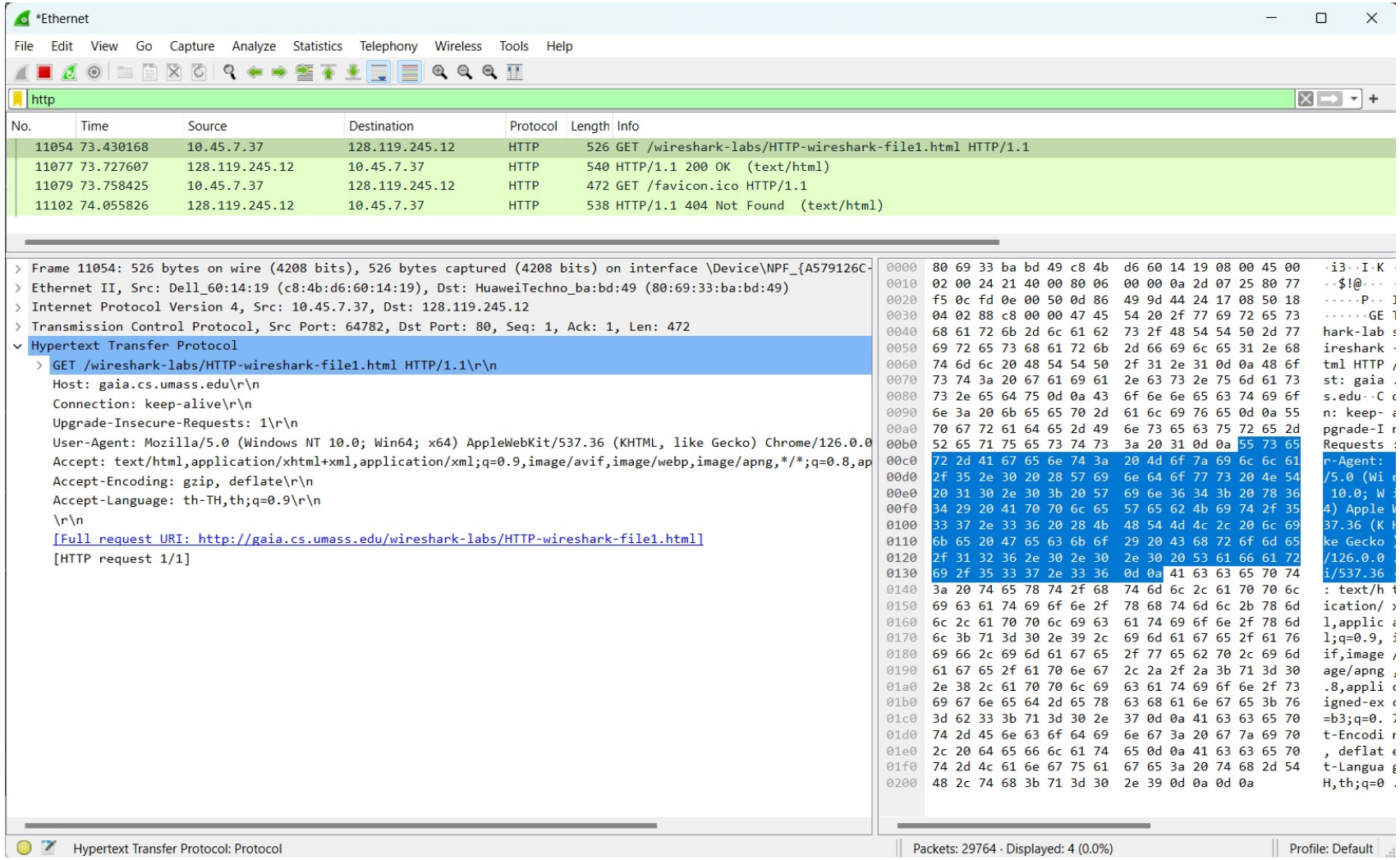
หมายเลข **IP** ของเครื่องที่นักศึกษาใช้ **(CIDR Format)** .....10.45.7.37.....

MAC Address ของเครื่องนักศึกษา .....C8-4B-D6-60-14-19.....

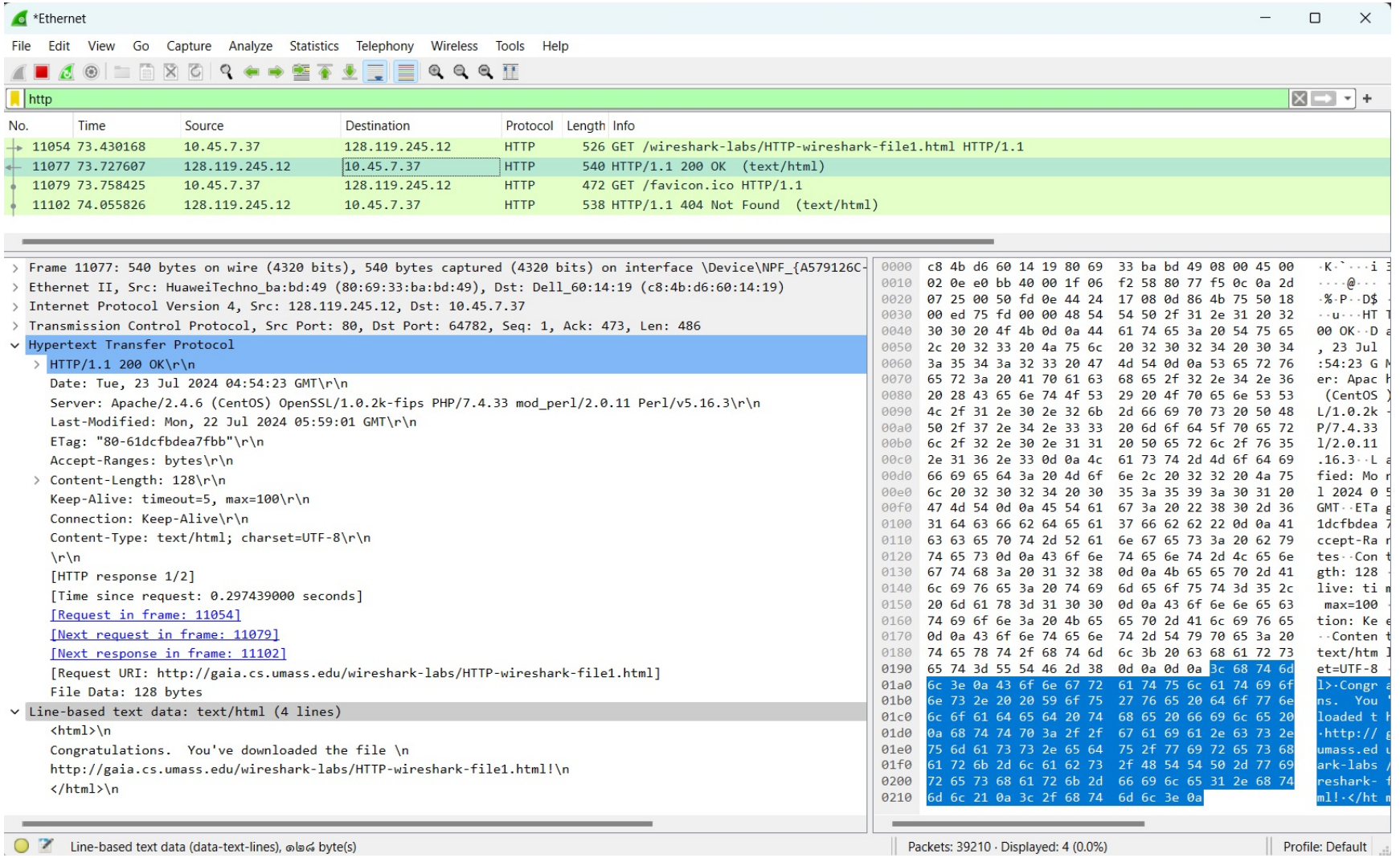
A. Instruction

1. Start up your web browser.
2. Start up the Wireshark packet sniffer, as described in the Introductory lab (but don't yet begin packet capture).
   - Enter "http" (just the letters, not the quotation marks, and in lower case) in the display-filter-specification window, so that only captured HTTP messages will be displayed later in the packet-listing window. (We're only interested in the HTTP protocol here, and don't want to see the clutter of all captured packets).
3. Wait a bit more than one minute (we'll see why shortly), and then begin Wireshark packet capture.
4. Enter the following to your browser
   http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html
   Your browser should display the very simple, one-line HTML file.
5. Stop Wireshark packet capture.

A1. Capture หน้าจอ Wireshark ของนักศึกษา (หน้าตาประมาณนี้) แล้ว Copy ทับรูปนี้เลยค่ะ => HTTP Request



A2. Capture หน้าจอ Wireshark ของนักศึกษา = > HTTP Response



A3. ตอบคำถามต่อไปนี้ พร้อมนำคำตอบไปเติมใน Sheet

1. Is your browser running HTTP version 1.0, 1.1, or 2? What version of HTTP is the server running?

   Client and Server : HTTP 1.1

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

   th-TH , th; q = 0.9

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

   Client : 128.119.245.12 | Server : 10.45.7.57

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?

   Mon 22 Jul 2024 05:59:01 GMT

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

   128

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.

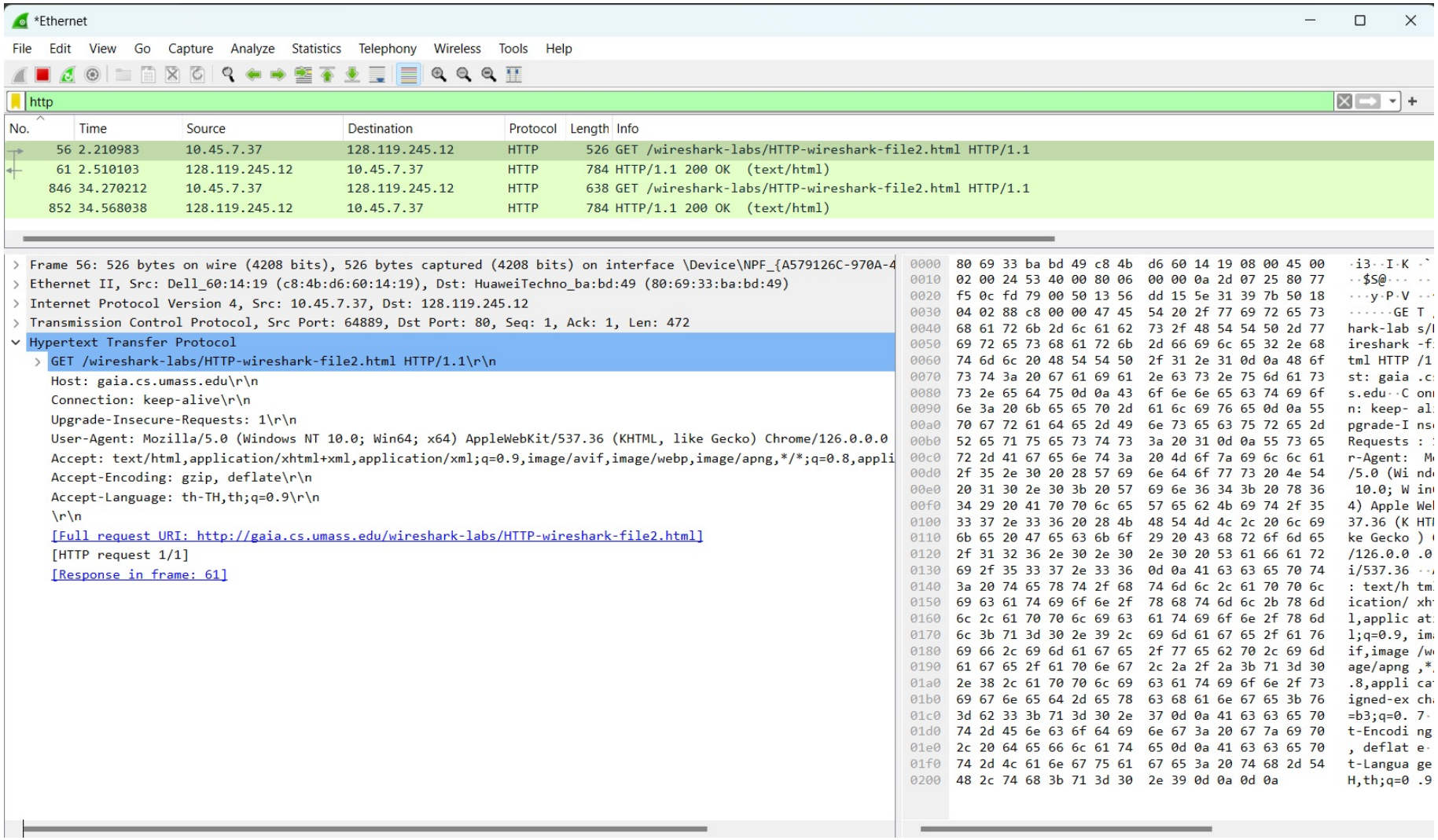
   ไม่เห็น

B. The HTTP CONDITIONAL GET/response interaction

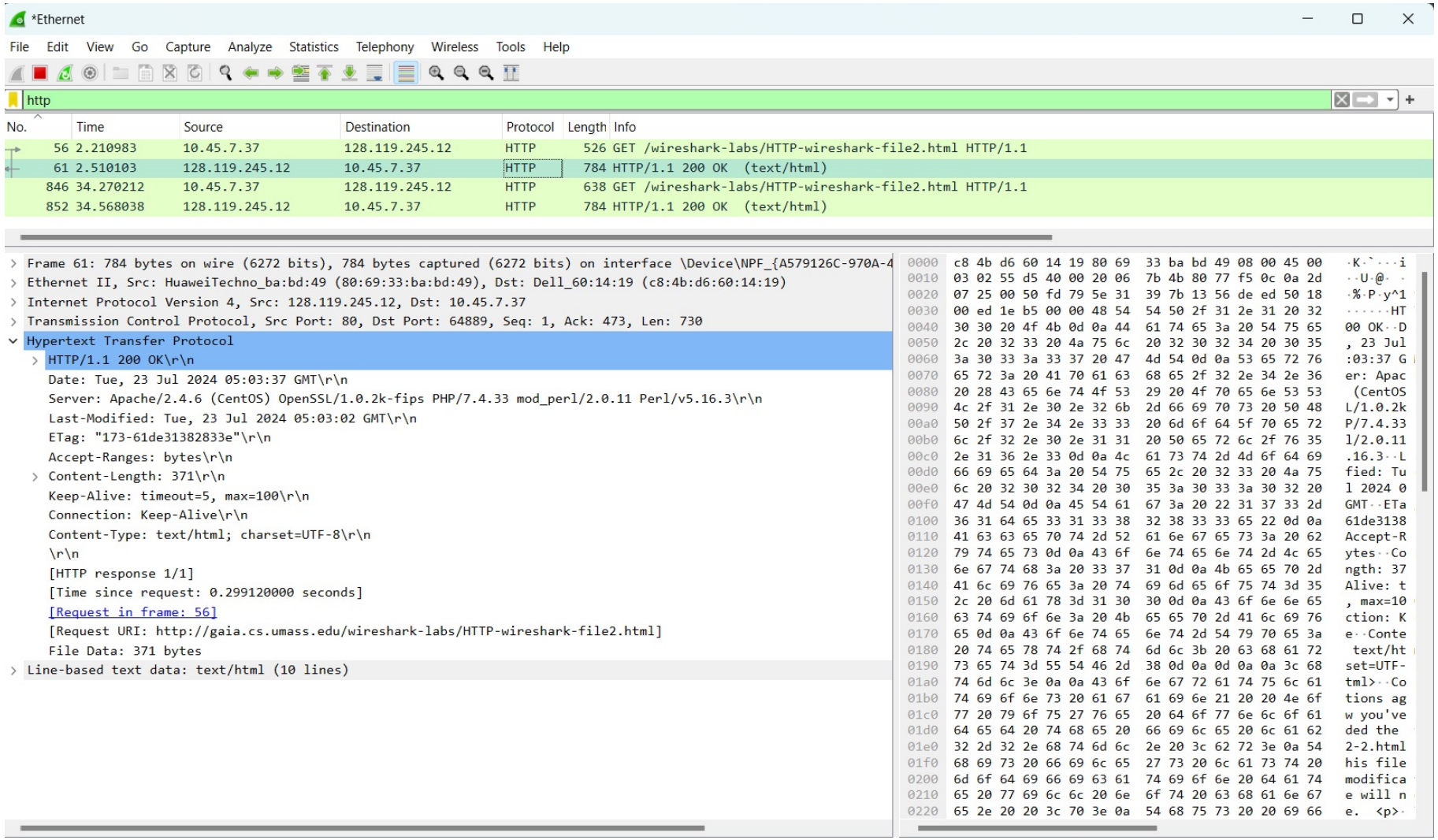
Instruction

1. Start up your web browser, and make sure your browser's cache is cleared, as discussed above.
2. Start up the Wireshark packet sniffer
3. Enter the following URL into your browser
   http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html
   Your browser should display a very simple five-line HTML file.
4. Quickly enter the same URL into your browser again (or simply select the refresh button on your browser)
5. Stop Wireshark packet capture, and enter "http" (again, in lower case without the quotation marks) in the display-filter-specification window, so that only captured HTTP messages will be displayed later in the packet-listing window.

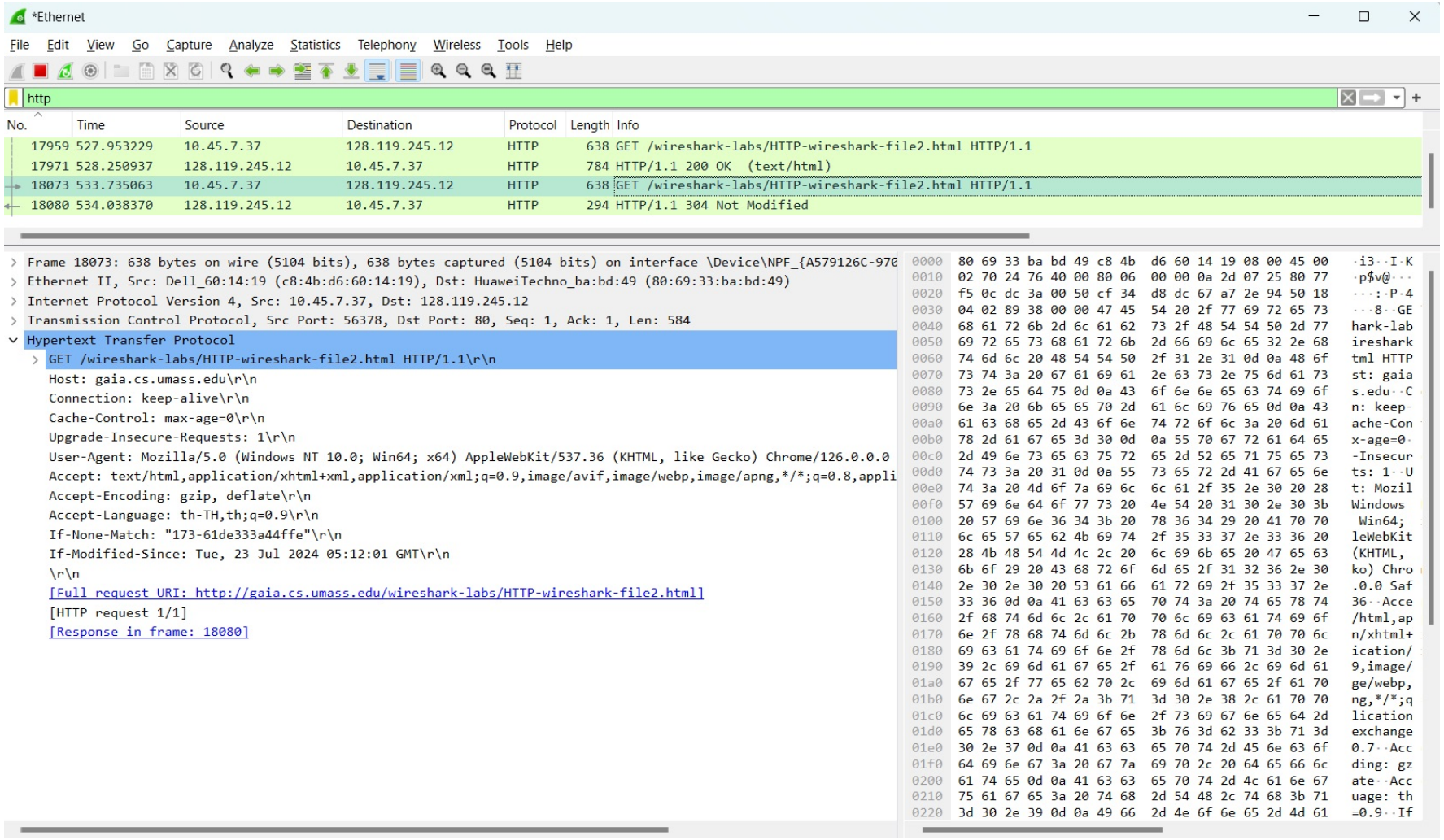
A1. Capture หน้าจอ Wireshark : HTTP Get Packet แรก



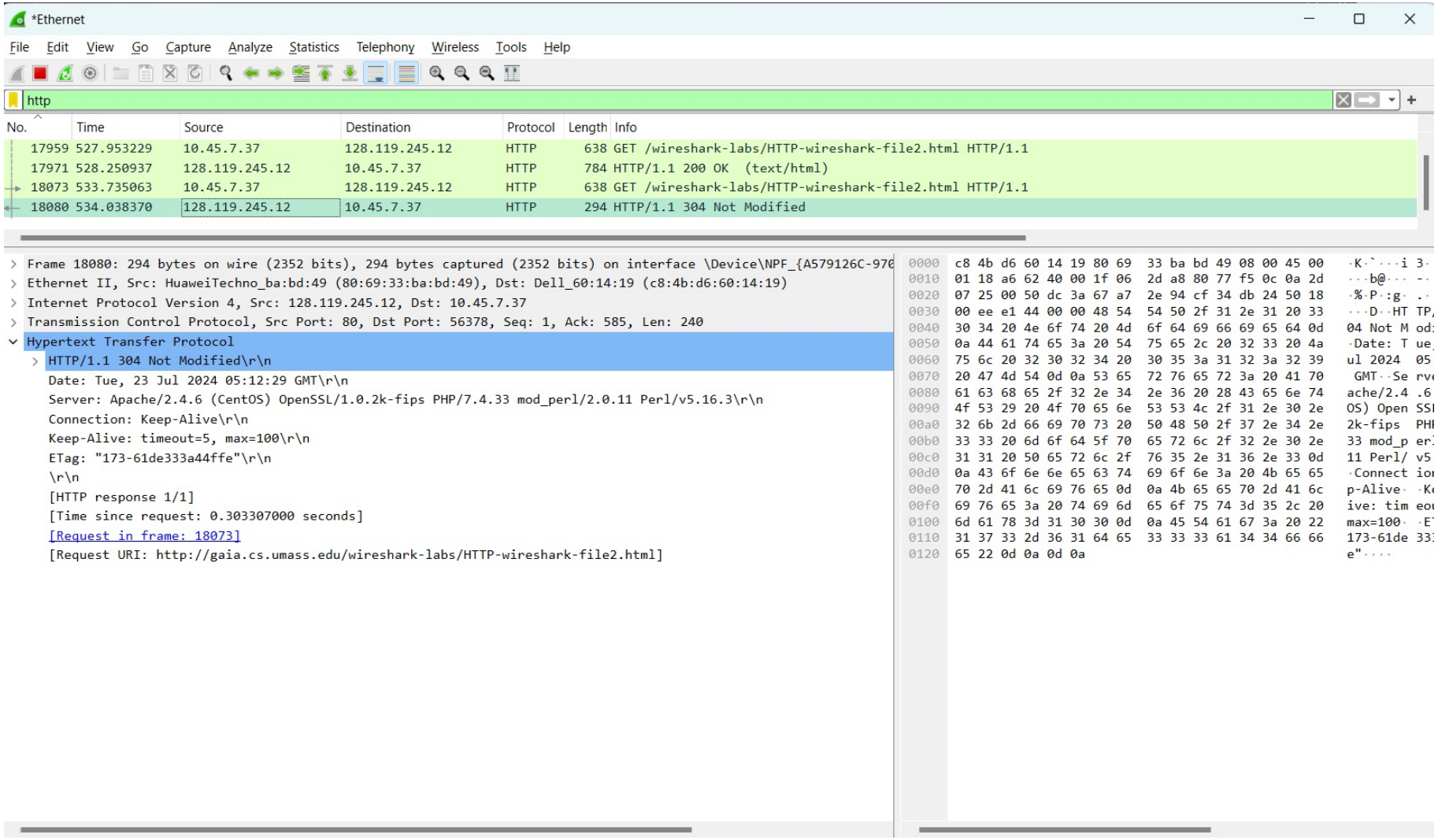
A2. Capture หน้าจอ Wireshark : HTTP Response packet แรก



A3. Capture หน้าจอ Wireshark : HTTP Get Packet ที่สอง

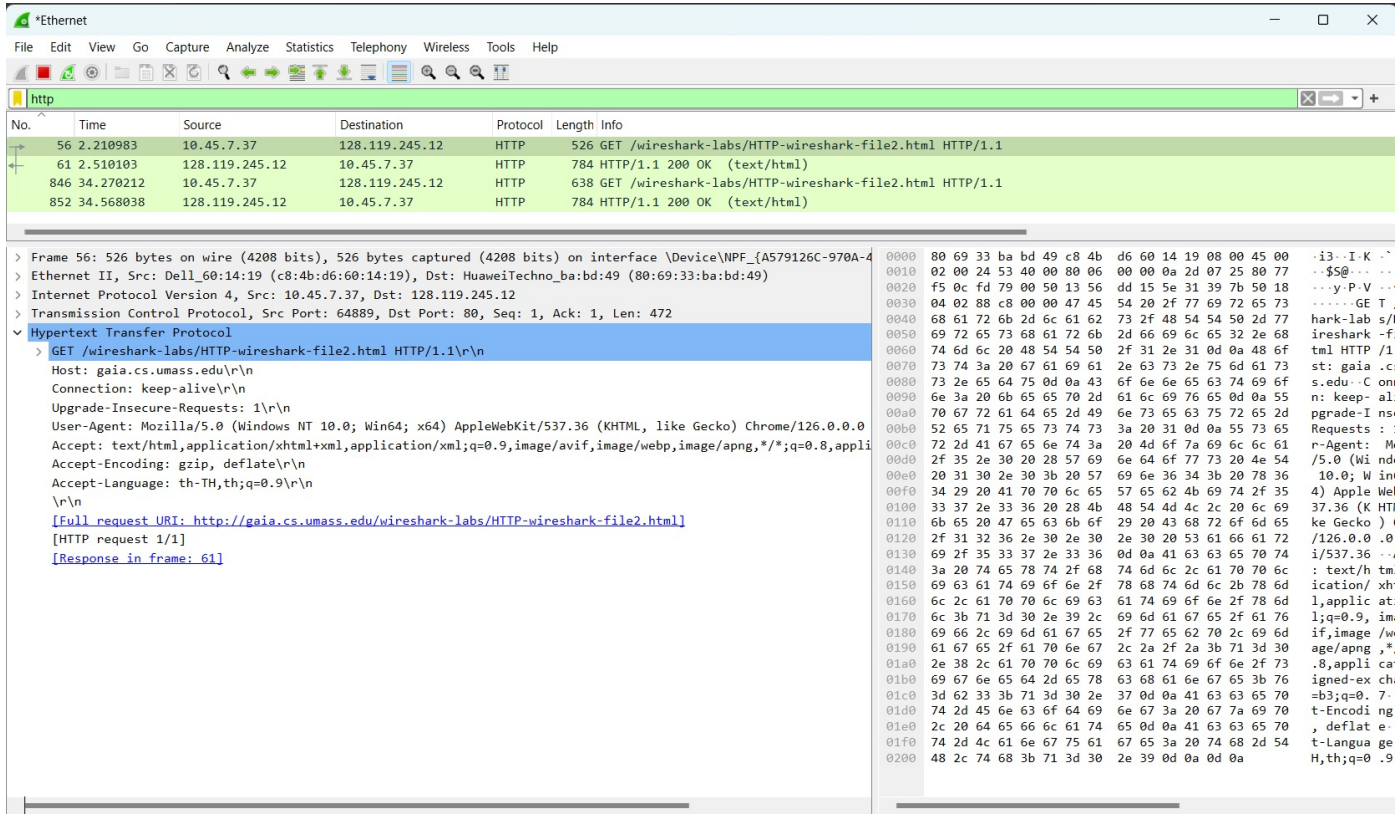


A4. Capture หน้าจอ Wireshark : HTTP Response packet ที่สอง (หลัง Reload)



B5.1 จงตอบคำถามต่อไปนี้

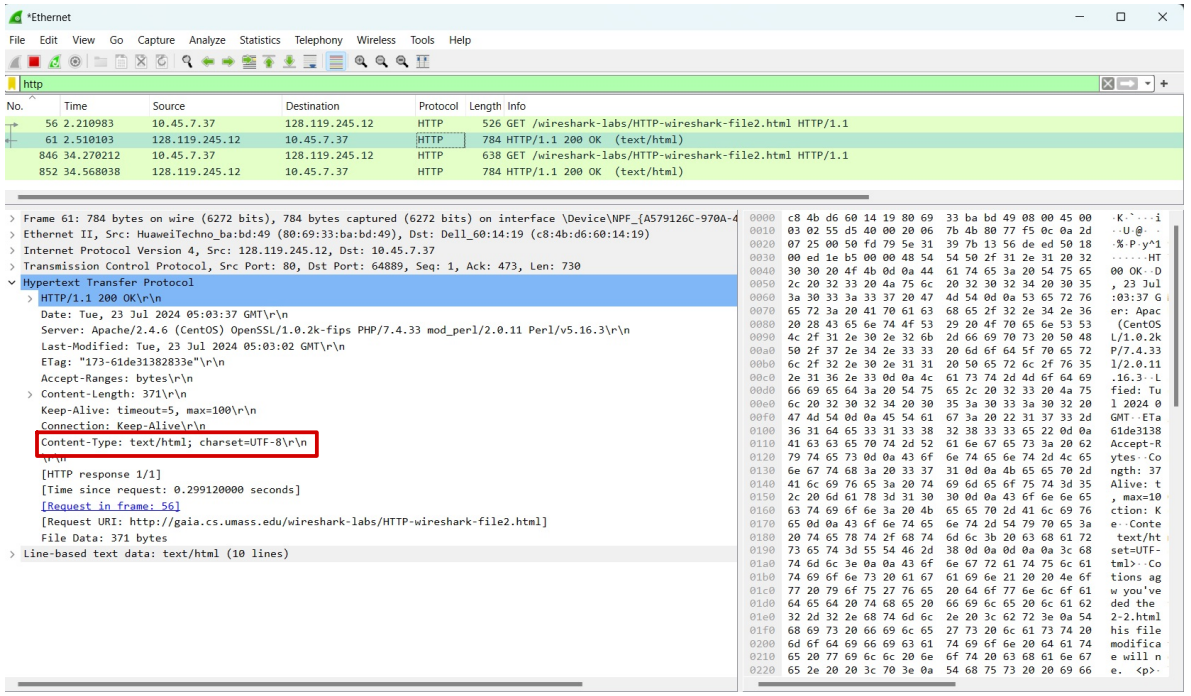
Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE” line in the HTTP GET? ตอบ เจอ ไม่เจอ ถ้าเจอ ให้วง



ไม่เจอ

B5.2 จงตอบคำถามต่อไปนี้

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

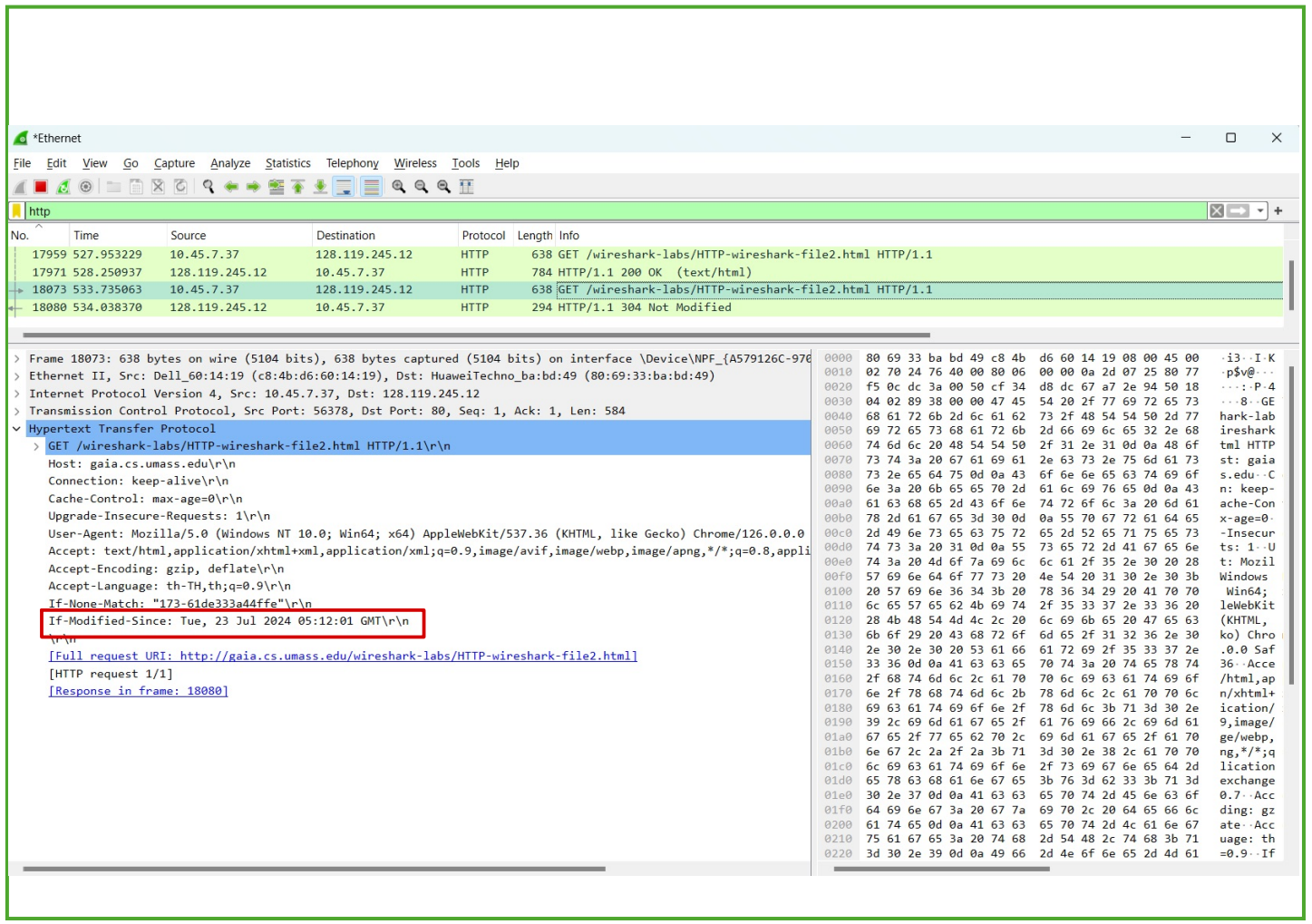


Answer here

text / html

B5.3 จงตอบคำถามต่อไปนี้

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?



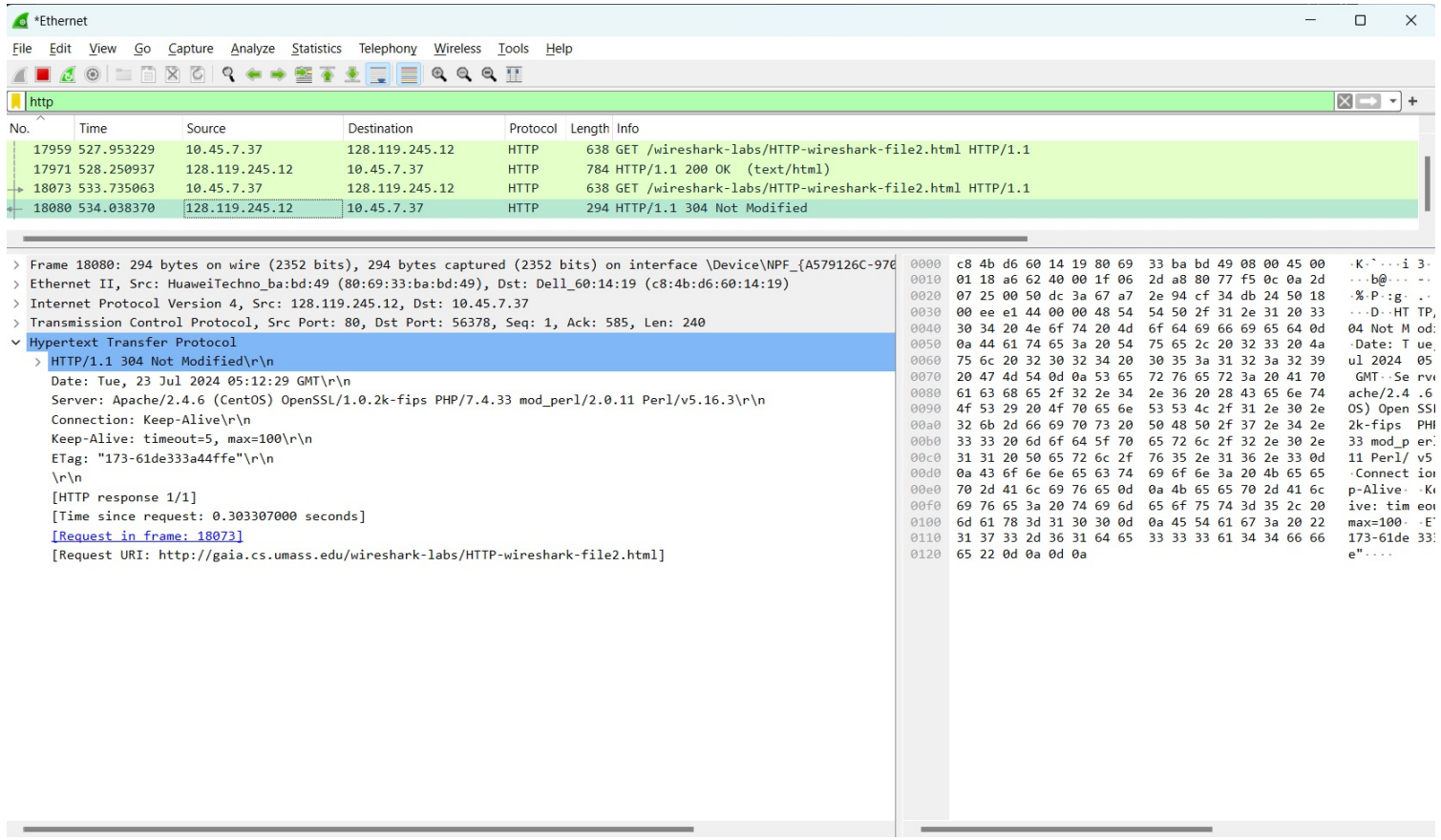
Answer here

Tue, 23 Jul 2024

05:12:01 GMT

B5.4 จงตอบคำถามต่อไปนี้

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.



Answer here

304 ไม่มีการ return เพราะเคยมีการขอ Data ไปแล้ว จึงนำข้อมูลเก่ามาให้ หรือ Catch