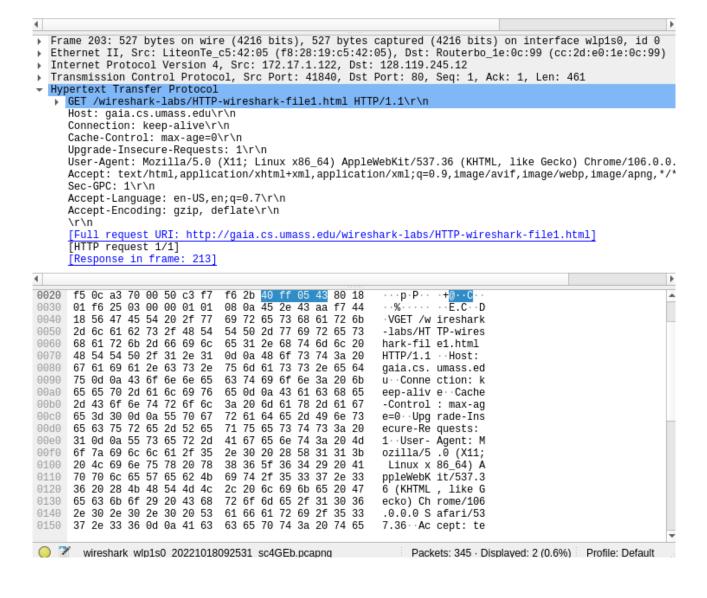
## Lab Task 1:

The Basic HTTP GET/response interaction.





## **Answers:**

- 1. Browser running HTTP version 1.1.
- 2. The server version is:

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.30 mod\_perl/2.0.11 Perl/v5.16.3\r\n

3. Accept Language is: "en-US, en;1=0.7\r\n"

```
> Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
> [SEQ/ACK analysis]
> [Timestamps]
TCP payload (461 bytes)

Hypertext Transfer Protocol
> GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n
Host: gaia.cs.umass.edu\r\n
Connection: keep-alive\r\n
Connection: keep-alive\r\n
Upgrade-Insecure-Requests: 1\r\n
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*
Sec-GPC: 1\r\n
Accept-Language: en-US,en;q=0.7\r\n
Accept-Encoding: gzip, deflate\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]
```

4. My machine IP is: 172.17.1.122

The server's IP address is: 127.119.245.12

Internet Protocol Version 4, Src: 172.17.1.122, Dst: 128.119.245.12

- 5. Status code is: 200
- 6. Last modified time is:

```
Last-Modified: Mon, 17 Oct 2022 05:59:02 GMT\r\n
```

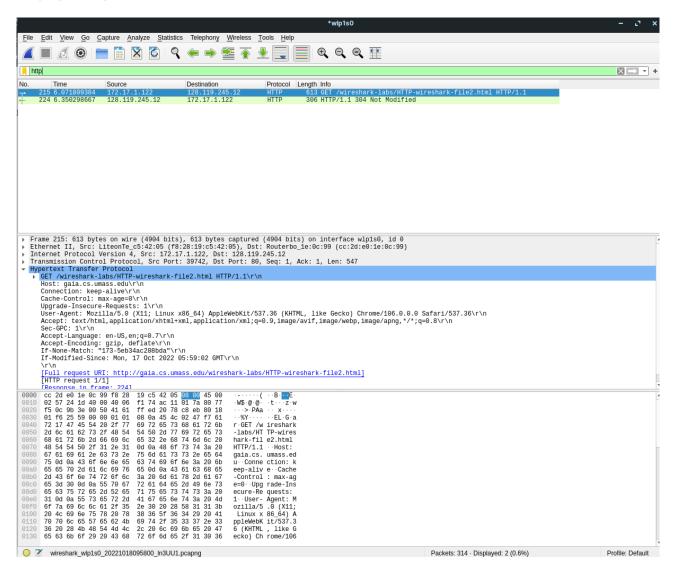
7. Bytes size is:

[HTTP request 1/1] [Response in frame: 213]

File Data: 128 bytes

8. No all of the headers can be found in the raw data.

## **Task 02:**



## **Answers:**

1. No, it's not showing in 200,OK response.

If-Modified-Since: Tue, 18 Oct 2022 05:15:01 GMT $\r$ 

2. Yes, the server explicitly returns the contents of the file.

3. Yess, it's showing:

If-Modified-Since: Tue, 18 Oct 2022 05:15:01 GMT\r\n

4. 304 Not modified is the code and it does not explicitly returns the content of the file.