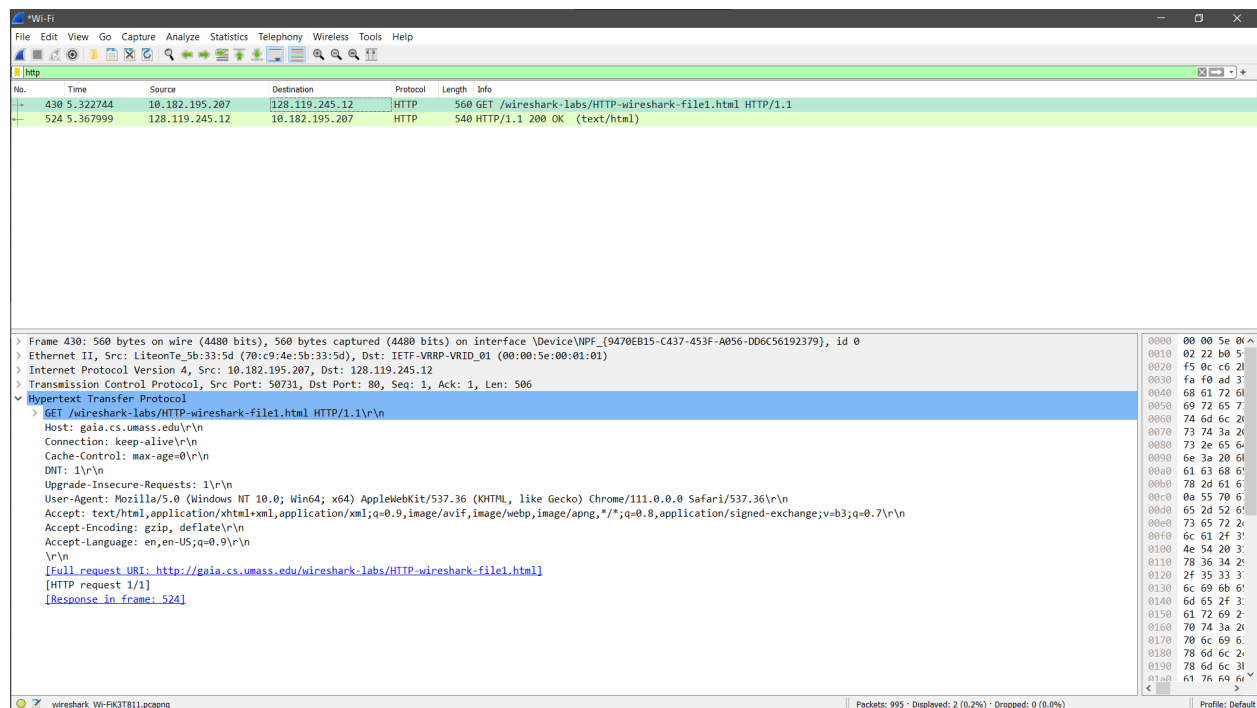
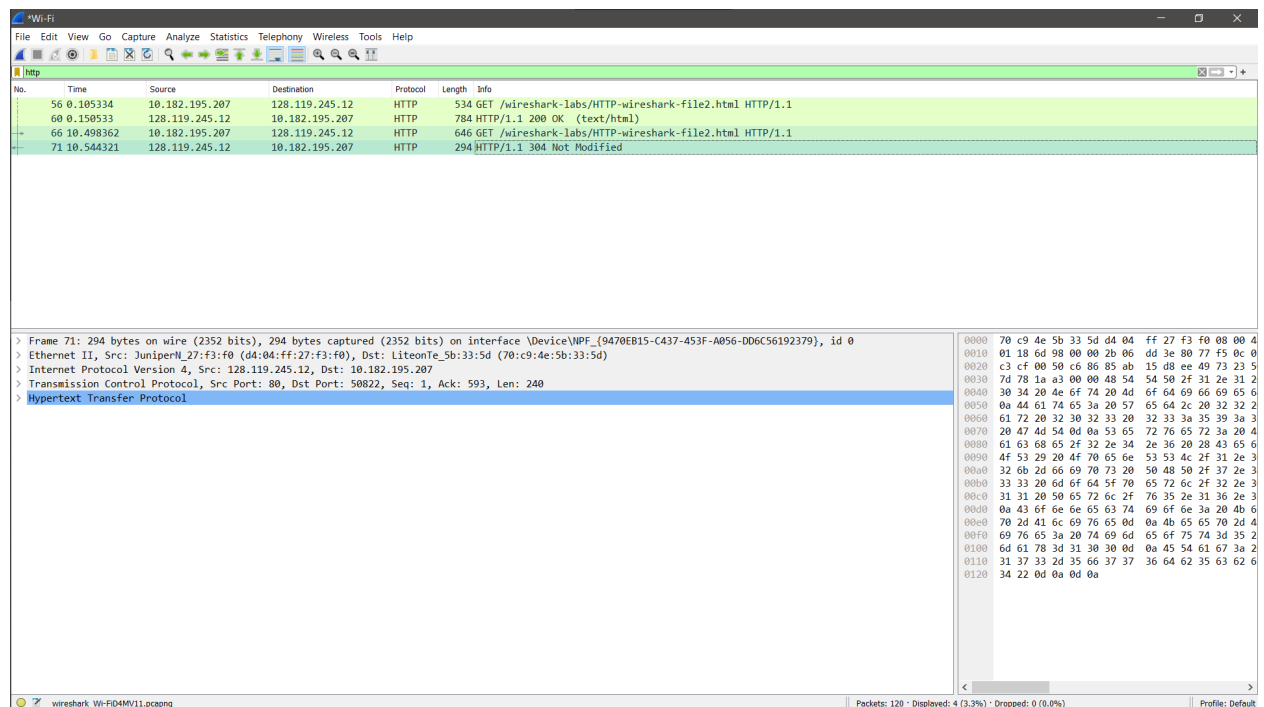


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1. My browser is using HTTP/1.1 as show in the GET request. The server is using HTTP/1.1 as shown in the response.
2. The GET request specifies languages of en,en-US;q=0.9, So english.
3. In the IP header the source address is 10.182.198.207. The destination address is 128.119.245.12
4. The status code is 200 OK
5. Last-Modified: Wed, 22 Mar 2023 05:59:02 GMT
6. Content_Length: 128
7. The headers in the Ethernet II portion are not show in the packet-listing window.



8. There is no If-Modified-Since header in the first GET request
9. Yes the data is explicitly given because there is the section of “Line-based text data: text/html”
10. The second GET request has If-Modified-Since: Wed, 22 Mar 2023 05:59:02 GMT
11. The server’s response was 304 Not Modified and there was no “Line-based text data: text/html” so the contents of the file were not provided.

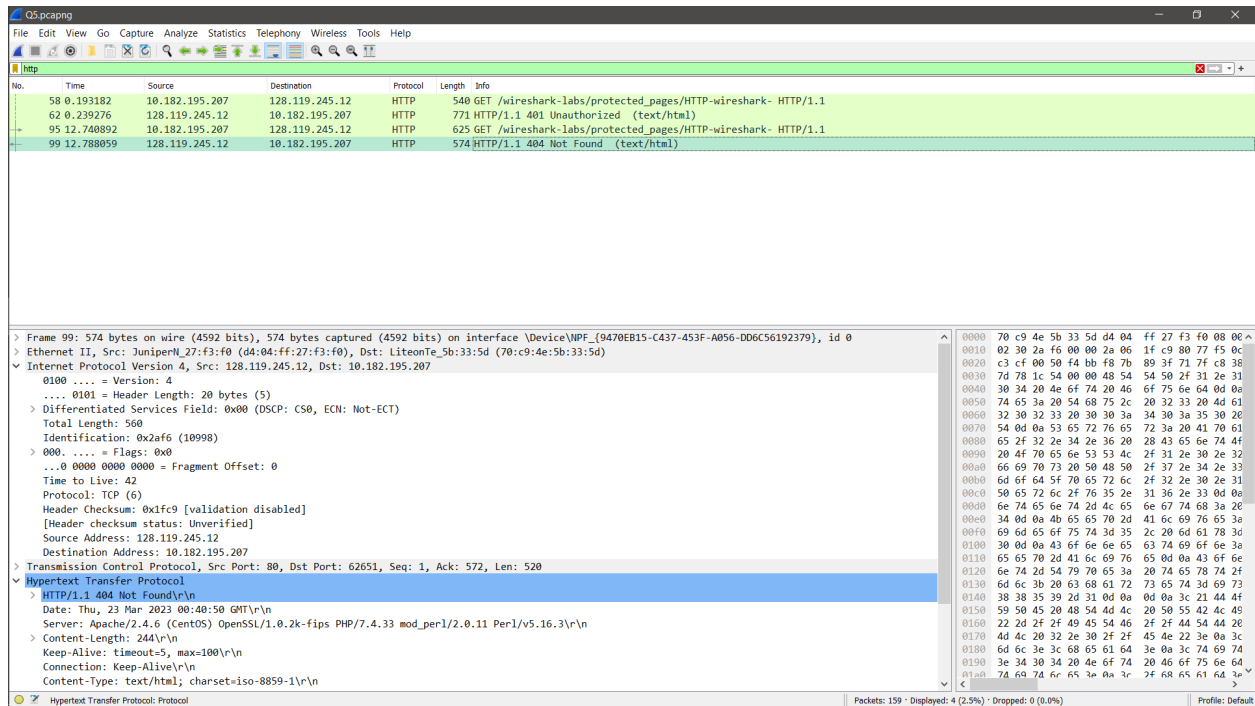
Wireshark packet capture showing an HTTP GET request and its response. The packet list shows a single packet (No. 80) at time 2.271381, source 128.119.245.12, destination 10.182.195.207, protocol HTTP, length 697, info 697 HTTP/1.1 200 OK (text/html). The packet details pane shows the reassembled TCP segments and the HTTP response structure, including the status line 'HTTP/1.1 200 OK (text/html)'. The packet bytes pane shows the raw data in hexadecimal and ASCII.

12. There is only one GET request. This request and all the other headers are contained in one TCP packet. This packet is the first sent.
13. The response from the server contains four TCP segments. The first packet contains the status code and phrase
14. The HTTP response from the server is HTTP/1.1 200 OK
15. As stated before, There was a total of four TCP packets received

O4-pcapng

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

16. There are a total of three GET requests. The first is for the html file from the provided link at gaia.cs.umass.edu. The second is from the same host but for a different file. The third is requesting a file from kurose.cslash.net.
17. I know it's in parallel because by spamming shift-f5 I can get an order of GET GET response response. In my trace file and in the screenshot it looks like it is done serially probably because in normal conditions the images are requested in the order they appear in the html doc. I'm unable to get the evidence for it being parallel by itself like the instructions say.



18. The first response from the server is 401 Unauthorized

19. In the second GET request there is a new field of "Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcm5l" =