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Class: CC01

Lab1a: Introduction to Wireshark Packet Sniffer Tool

Q.1: List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

2616	-199.589902	191.16.27.187	224.0.0.251	MDNS	85 Standard query 0x0000 PTR _microsoft_mcc._tcp...
2617	-199.589902	fe80::c3c2:6d06:487...	ff02::fb	MDNS	105 Standard query 0x0000 PTR _microsoft_mcc._tcp...
2618	-199.589902	172.217.24.99	191.16.19.18	TLSv1.3	1040 Application Data, Application Data
2619	-199.589902	172.217.24.74	191.16.19.18	TCP	60 443 → 63112 [FIN, ACK] Seq=5814 Ack=646 Win=65...
2620	-199.589902	172.217.24.74	191.16.19.18	TCP	60 443 → 63113 [ACK] Seq=5846 Ack=1386 Win=64512 ...
2621	-199.589902	172.217.24.99	191.16.19.18	TLSv1.3	85 Application Data
2622	-199.589495	191.16.19.18	172.217.24.99	TCP	54 63114 → 443 [ACK] Seq=1013 Ack=5879 Win=131072...
2623	-199.589303	191.16.19.18	172.217.24.99	TLSv1.3	85 Application Data
2624	-199.587323	172.217.24.99	191.16.19.18	TCP	60 443 → 63114 [ACK] Seq=5879 Ack=1013 Win=67840 ...
2625	-199.587323	172.217.24.74	191.16.19.18	TCP	60 443 → 63113 [ACK] Seq=5846 Ack=1749 Win=64256 ...
2626	-199.579485	142.250.207.68	191.16.19.18	QUIC	1292 Handshake, SCID=e01aa4c222a141db
2627	-199.579485	142.250.207.68	191.16.19.18	QUIC	1292 Handshake, SCID=e01aa4c222a141db
2628	-199.579136	191.16.19.18	142.250.207.68	QUIC	81 Handshake, DCID=e01aa4c222a141db
2629	-199.571376	191.16.19.18	142.250.207.68	TCP	66 63115 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=14...

Three different protocols are: MDNS, TCP, QUIC

Q.2: How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet-listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time Display Format, then select Time-of-day.)

No.	Source	Destination	Protocol	Length	Info
http					
http2					
http3					
27:14.680538	191.16.19.18	128.119.245.12	HTTP	668	GET /wireshark-labs/INTRO-wireshark-file1.ht...
27:14.941081	128.119.245.12	191.16.19.18	HTTP	293	HTTP/1.1 304 Not Modified
30855 08:29:03.719202	191.16.19.18	152.195.38.76	HTTP	298	GET /MFEwTzBNMEswSTA3BgUrDgMcGgUABBBQ50otx%2F...
30860 08:29:03.746049	152.195.38.76	191.16.19.18	OCSP	790	Response
34546 08:29:28.014401	191.16.19.18	128.119.245.12	HTTP	527	GET /wireshark-labs/INTRO-wireshark-file1.ht...
34560 08:29:28.281754	128.119.245.12	191.16.19.18	HTTP	492	HTTP/1.1 200 OK (text/html)
34564 08:29:28.383038	191.16.19.18	128.119.245.12	HTTP	473	GET /favicon.ico HTTP/1.1
34575 08:29:28.649351	128.119.245.12	191.16.19.18	HTTP	538	HTTP/1.1 404 Not Found (text/html)
39135 08:30:02.066695	191.16.19.18	34.104.35.123	HTTP	353	HEAD /edgedl/release2/chrome_component/adpcjr...
39141 08:30:02.098191	34.104.35.123	191.16.19.18	HTTP	600	HTTP/1.1 200 OK
39143 08:30:02.131133	191.16.19.18	34.104.35.123	HTTP	404	GET /edgedl/release2/chrome_component/adpcjr...
39151 08:30:02.165303	34.104.35.123	191.16.19.18	HTTP	844	HTTP/1.1 200 OK
39815 08:30:10.404691	191.16.19.18	34.104.35.123	HTTP	335	HEAD /edgedl/release2/chrome_component/ac5pa...
39817 08:30:10.439369	34.104.35.123	191.16.19.18	HTTP	602	HTTP/1.1 200 OK
39818 08:30:10.475810	191.16.19.18	34.104.35.123	HTTP	386	GET /edgedl/release2/chrome_component/ac5pa...
39850 08:30:10.522294	34.104.35.123	191.16.19.18	HTTP	1032	HTTP/1.1 200 OK
40105 08:30:14.693330	191.16.19.18	34.104.35.123	HTTP	453	HEAD /edgedl/diffgen-puffin/efniojlnjndmcbii...

Amount of time for the HTTP GET message was sent until the HTTP OK reply was received:

From 8:29:28.014401 to 8:29:28.281754: 0.267353 s

C:\Users\NTMINI-1\AppData\Local\Temp\Wireshark-WiFi\Wireshark-2019-07-20\Wireshark-2019-07-20.pcapng 40283 total packets, 20 shown

```
Connection: keep-alive\n\n
Upgrade-Insecure-Requests: 1\n\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/537.36\n\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7\n\n
Accept-Encoding: gzip, deflate\n\n
Accept-Language: en-US,en;q=0.9\n\n
\n\n
[Full request URI: http://github.cs.umass.edu/freshark-122-0-0-Wireshark-f11e1.html]
[HTTP request 1/2]
[Response in frame: 34569]
[Next request in frame: 34564]
```

GET message

```

No.      Time    Source                               Destination                        Protocol Length Info
-----   -
34560 08:29:28.28754     128.119.245.12                    191.16.19.18                      HTTP          492    HTTP/1.1 200 OK (text/html)
Frame 34560: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface DeviceNPF_{6ACF0B97-9A14-A2C-A1A7-FBFED29F6D6E}, Id
...
Section number: 1
Interface id: 0 [DeviceNPF_{6ACF0B97-9A14-A2C-A1A7-FBFED29F6D6E}]
Encapsulation type: Ethernet (1)
Arrival time: Mar 19, 2024 08:29:28.281754000 SE Asia Standard Time
UTM Arrival Time: Mar 19, 2024 01:29:28.281754000 UTC
Epoch Arrival Time: 17081817.681754000
[Time shift from previous capture frame: 0.00000000 seconds]
[Time delta from previous captured frame: 0.00000000 seconds]
[Time delta since previous received frame: 0.00733900 seconds]
[Time slice reference or first frame: 135.55428600 seconds]
Frame Number: 34560
Capture length: 492 bytes (3936 bits)
[Frame is ignored: false]
[Frame is marked: false]
[Protocols in frame: eth:ethertype:ip:tcp:http:data:text:_lines]
[Coloring Rule Name: HTTP]
[Coloring Rule String: http || tcp.port == 80 || https?]
Ethernet II, Src: Dwytek_J25n18 (00:1d:c0:a2:15:a18), Dest: Intel_60:8b:5f (08:f0:fd:1:60:8b:5f)
Destination: Intel_60:8b:5f (08:f0:fd:1:60:8b:5f)
Address: Intel_60:8b:5f (08:f0:fd:1:60:8b:5f)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 128.119.245.12, Dest: 191.16.19.18
.....0..... = Version: 4
....0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0x20 (DSCP: CS1, ECN: Not-ECT)
Total Length: 478
Identification: 0xcdeca (59378)
010.. ....= Flags: 0x2, Don't Fragment
...0.0000 0000 0000 = Fragment Offset: 0
Preamble Type: 39
Protocol ID: 6 (TCP)
Header Checksum: 0xa589 [validation disabled]
Header checksum status: Unverified]
Source Address: 128.119.245.12
Destination Address: 191.16.19.18
Transmission Control Protocol, Src Port: 80, Dest Port: 63694, Seq: 1, Ack: 474, Len: 438
Source Port: 80
Destination Port: 63694
[Stream index: 136]
[Conversation completeness: Complete, WITH DATA (31)]
[TCP Segment Len: 438]
Sequence Number: 1 (relative sequence number)
Next Sequence Number (raw): 292979448
[Next Sequence Number: 439 (relative sequence number)]
Acknowledgment Number: 474 (relative ack number)
Acknowledge window (raw): 3293841
0101 .....= Window Length: 20 bytes (5)
Flags: 0x018 (PSH, ACK)
Window: 237
[Calculated window size: 30336]
[window size scaling factor: 128]
Checksum: 0xc3bb [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
[Timestamps]
[SEQ/ACK analysis]
TCP payload (438 bytes)
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
Date: Tue, 19 Mar 2024 01:30:28 GMT\r\n
Server: Apache/2.4.18 (Ubuntu)\r\n
Last-modified: Mon, 18 Mar 2024 05:55:01 GMT\r\n
ETag: "51-6139dddaica"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 81\r\n
Keep-Alive: timeout=5, max=100\r\n
Connection: Keep-Alive\r\n
Content-Type: text/html; charset=UTF-8\r\n
\r\n
[HTTP response 1/2]

```

OK message

LAB2a: Visit this link to download: [LabMMT/2152555_NguyenMinhHieu_Lab2a.pkt at main · ngynmhieu/LabMMT \(github.com\)](https://github.com/ngynmhieu/LabMMT/blob/main/Lab2a.pkt)

LAB3a: Wireshark Lab: HTTP

Q1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

No.	Time	Source	Destination	Protocol	Length	Info
1709	10:56:37.124...	191.16.19.18	128.119.245.12	HTTP	526	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
1719	10:56:37.397...	128.119.245.12	191.16.19.18	HTTP	540	HTTP/1.1 200 OK (text/html)

Version 1.1

Q2. What languages (if any) does your browser indicate that it can accept to the server?

```
▼ 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
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/53
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: en-US,en;q=0.9\r\n
    \r\n
```

Accept language" en-US, en

Q3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?

```
Header Checksum: 0x0000 [validation disabled]
[Header checksum status: Unverified]
Source Address: 191.16.19.18
Destination Address: 128.119.245.12
```

IP address of my computer: 191.16.19.18

IP address of gaia.cs.umass.edu server: 128.119.245.12

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

```
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
```

Status code: 200

5. When was the HTML file that you are retrieving last modified at the server?

```
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Tue, 19 Mar 2024 03:56:37 GMT\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\n
Last-Modified: Mon, 18 Mar 2024 05:59:01 GMT\r\n
ETag: "80-613e90de443ba"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 128\r\n
```

Last modified: Monday, 18 March 2024 5:59:01 GMT

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

```
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Tue, 19 Mar 2024 03:56:37 GMT\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\n
Last-Modified: Mon, 18 Mar 2024 05:59:01 GMT\r\n
ETag: "80-613e90de443ba"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 128\r\n
```

128 bytes

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

According to the packet data given in the prior discussion, there are no headers present in the data that are not shown in the packet-listing window.

8. 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, there isn't exist this parameter

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

No.	Time	Source	Destination	Protocol	Length	Info
91	11:28:39.577...	191.16.19.18	128.119.245.12	HTTP	526	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1...
111	11:28:39.862...	128.119.245.12	191.16.19.18	HTTP	784	HTTP/1.1 200 OK (text/html)
153	11:28:41.157...	191.16.19.18	128.119.245.12	HTTP	638	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1...
157	11:28:41.503...	128.119.245.12	191.16.19.18	HTTP	293	HTTP/1.1 304 Not Modified

HTTP/1.1 200 OK\r\n

[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

Response Version: HTTP/1.1

Status Code: 200

[Status Code Description: OK]

Response Phrase: OK

Date: Tue, 19 Mar 2024 04:28:39 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_per

Last-Modified: Mon, 18 Mar 2024 05:59:01 GMT\r\n

ETag: "173-613e90de43bea"\r\n

Accept-Ranges: bytes\r\n

Content-Length: 371\r\n

Keep-Alive: timeout=5, max=100\r\n

Connection: Keep-Alive\r\n

Content-Type: text/html; charset=UTF-8\r\n

\r\n

[HTTP response 1/2]

[Time since request: 0.285698000 seconds]

0000 a8 64 f1 60 8b 5f 00 1d aa 12 5a 18 08 00 45 2f

0010 03 02 1c a4 40 00 27 06 ec 8b 80 77 f5 0c bf 1f

0020 13 12 00 50 d0 6d 16 38 5f e1 97 ac c3 cd 50 1f

0030 00 ed 0b f7 00 00 48 54 54 50 2f 31 2e 31 20 3f

0040 30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 54 75 6f

0050 2c 20 31 39 20 4d 61 72 20 32 30 32 34 20 30 3f

0060 3a 32 38 3a 33 39 20 47 4d 54 0d 0a 53 65 72 7f

0070 65 72 3a 20 41 70 61 63 68 65 2f 32 2e 34 2e 3f

0080 20 28 43 65 6e 74 4f 53 29 20 4f 70 65 6e 53 5f

0090 4c 2f 31 2e 30 2e 32 6b 2d 66 69 70 73 20 50 4f

00a0 50 2f 37 2e 34 2e 33 33 20 6d 6f 64 5f 70 65 7f

00b0 6c 2f 32 2e 30 2e 31 31 20 50 65 72 6c 2f 76 3f

00c0 2e 31 36 2e 33 0d 0a 4c 61 73 74 2d 4d 6f 64 6f

00d0 66 69 65 64 3a 20 4d 6f 6e 2c 20 31 38 20 4d 6f

00e0 72 20 32 30 32 34 20 30 35 3a 35 39 3a 30 31 2f

00f0 47 4d 54 0d 0a 45 54 61 67 3a 20 22 31 37 33 2f

0100 36 31 33 65 39 30 64 65 34 33 62 65 61 22 0d 0f

0110 41 63 63 65 70 74 2d 52 61 6e 67 65 73 3a 20 6f

0120 79 74 65 73 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 6f

0130 6e 67 74 68 3a 20 33 37 31 0d 0a 4b 65 65 70 2f

0140 41 6c 69 76 65 3a 20 74 69 6d 65 6f 75 74 3d 3f

Indeed, the server did purposefully send back the file’s contents. This is evident from the HTTP response status “200 OK”, signifying that the server has successfully handled the request and is now transmitting the data.

10. 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?

```
Accept-Language: en-US,en;q=0.9\r\n
If-None-Match: "173-613e90de43bea"\r\n
If-Modified-Since: Mon, 18 Mar 2024 05:59:01 GMT\r\n
\r\n
```

If-Modified-Since: Mon, 18 Mar 2024 05:59:01 GMT\r\n

The server utilizes this data to ascertain if the browser’s cached file version is the most recent one. If there have been no modifications to the file on the server since that time, the server responds with a “304 Not Modified” status code, as demonstrated in the response you supplied.

11. 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.

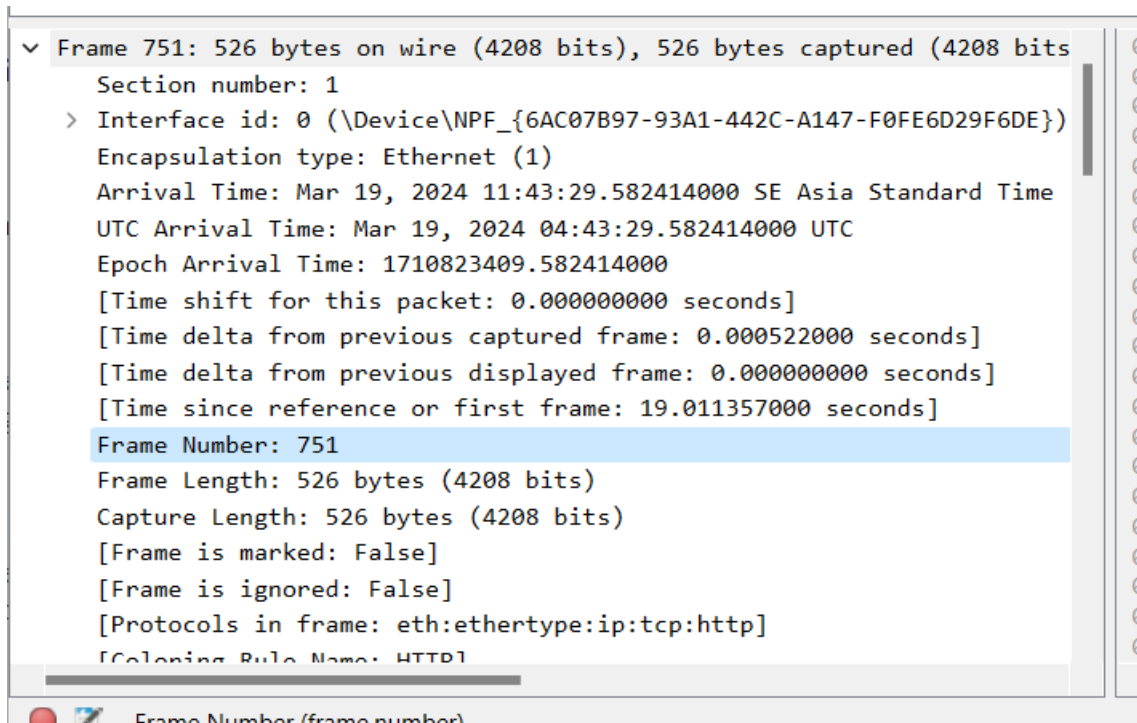

```

    TCP payload (239 bytes)
  v Hypertext Transfer Protocol
    v HTTP/1.1 304 Not Modified\r\n
      > [Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]
        Response Version: HTTP/1.1
        Status Code: 304
        [Status Code Description: Not Modified]
        Response Phrase: Not Modified
        Date: Tue, 19 Mar 2024 04:28:41 GMT\r\n

```

12. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill or Rights?

Only one: Frame 751



The image shows a Wireshark packet capture window. The packet list on the left shows 'Frame 751: 526 bytes on wire (4208 bits), 526 bytes captured (4208 bits)'. The packet details pane on the right shows the following information:

```

  v Frame 751: 526 bytes on wire (4208 bits), 526 bytes captured (4208 bits)
    Section number: 1
    > Interface id: 0 (\Device\NPF_{6AC07B97-93A1-442C-A147-F0FE6D29F6DE})
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar 19, 2024 11:43:29.582414000 SE Asia Standard Time
    UTC Arrival Time: Mar 19, 2024 04:43:29.582414000 UTC
    Epoch Arrival Time: 1710823409.582414000
    [Time shift for this packet: 0.000000000 seconds]
    [Time delta from previous captured frame: 0.000522000 seconds]
    [Time delta from previous displayed frame: 0.000000000 seconds]
    [Time since reference or first frame: 19.011357000 seconds]
    Frame Number: 751
    Frame Length: 526 bytes (4208 bits)
    Capture Length: 526 bytes (4208 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp:http]
    [Coloring Rule Name: HTTP]

```

13. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?

```

    Accept-Language: en-us,en;q=0.5\r\n
    \r\n
    [Full request URI: http://gaia.cs.]
    [HTTP request 1/1]
    [Response in frame: 765]

```

Frame: 765

14. What is the status code and phrase in the response?

The code and phrase in the response was 200 OK

15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

The image shows a Wireshark packet capture. The left pane displays the packet list, highlighting a packet that is a reassembly of 4 TCP segments (4861 bytes). The packet details pane shows the reassembled data, which is an HTTP 200 OK response containing the text of the Bill of Rights. The right pane shows the raw packet data in hexadecimal and ASCII.

There are 4 reassembled TCP segments.

16. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.100	128.119.245.12	HTTP	526	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
2	0.000000	192.168.1.100	128.119.245.12	HTTP	1355	HTTP/1.1 200 OK (text/html)
3	0.000000	192.168.1.100	128.119.245.12	HTTP	472	GET /pearson.png HTTP/1.1
4	0.000000	192.168.1.100	128.119.245.12	HTTP	761	HTTP/1.1 200 OK (PNG)
5	0.000000	192.168.1.100	178.79.137.164	HTTP	439	GET /8E_cover_small.jpg HTTP/1.1
6	0.000000	192.168.1.100	178.79.137.164	HTTP	225	HTTP/1.1 301 Moved Permanently

My Browser send 3 requests:

- The initial page : 128.119.245.12

Pearson logo: 128.119.245.12

Pearson book : 178.79.137.164

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

It's observable that the second request was dispatched following the completion of the first one. Therefore, I'm under the impression that these files were downloaded in a sequential manner.

18. What is the server's response (status code and phrase) in response to the initial HTTP GET message from your browser?

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.100	128.119.245.12	HTTP	542	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1
2	0.000000	192.168.1.100	128.119.245.12	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
3	0.000000	192.168.1.100	128.119.245.12	HTTP	627	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1
4	0.000000	192.168.1.100	128.119.245.12	HTTP	544	HTTP/1.1 200 OK (text/html)

The first respond was 401 Unauthorized.

19. When your browser's sends the HTTP GET message for the second time, what new field is included in the HTTP GET message?

No.	Time	Source	Destination	Protocol	Length	Info
526	11:52:37.896	191.16.19.18	128.119.245.12	HTTP	542	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1
535	11:52:38.175	128.119.245.12	191.16.19.18	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
890	11:52:51.164	191.16.19.18	128.119.245.12	HTTP	627	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1
895	11:52:51.438	128.119.245.12	191.16.19.18	HTTP	544	HTTP/1.1 200 OK (text/html)

<pre> > [SEQ/ACK analysis] TCP payload (573 bytes) Hypertext Transfer Protocol GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n [Expert Info (Chat/Sequence): GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n] [GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n] [Severity level: Chat] [Group: Sequence] Request Method: GET Request URI: /wireshark-labs/protected_pages/HTTP-wireshark-file5.html Request Version: HTTP/1.1 Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n > Authorization: Basic d2lyZXNoYXJrLXN0dWU1bnRzOm5ldHdvcm0=\r\n Upgrade-Insecure-Requests: 1\r\n User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.0.0 Safari/ Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/ </pre>	<pre> 0000 00 1d aa 12 5a 18 a8 64 f1 60 8b 5f 08 00 45 00Z..._..E- 0010 02 65 ce 77 40 00 80 06 00 00 bf 10 13 12 80 77 ..e@.....w 0020 f5 0c d3 69 00 50 3e 0b 74 77 ae 1b 2a f6 50 18 ...iP>..tw.*P. 0030 02 04 49 fe 00 00 47 45 54 20 2f 77 69 72 65 73 ...I...GE T /wires 0040 68 61 72 6b 2d 6c 61 62 73 2f 70 72 6f 74 65 63 hark-lab s/protec 0050 74 65 64 5f 70 61 67 65 73 2f 48 54 54 50 2d 77 ted_page s/HTTP-w 0060 69 72 65 73 68 61 72 6b 2d 66 69 6c 65 35 2e 68 ireshark -files.h 0070 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f tml HTTP /1.1 Ho 0080 73 74 3a 20 67 61 69 61 2e 63 73 2e 75 6d 61 73 st: gaia .cs.umass 0090 73 2e 65 64 75 0d 0a 43 6f 6e 6e 65 63 74 69 6f s.edu ..C connectio 00a0 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 65 8d 0a 43 n: keep-alive ..C 00b0 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6d 61 ache-Con trol: ma 00c0 78 2d 61 67 65 3d 30 0d 0a 41 75 74 68 6f 72 69 x-age=0 ..Authori 00d0 7a 61 74 69 6f 6e 3a 20 42 61 73 69 63 20 64 32 zation: Basic d2 00e0 6e 79 5a 58 4e 6f 59 58 4a 72 4c 58 4e 30 64 57 1yZXNoYX JrLXN0dW 00f0 52 6e 62 6e 52 7a 4f 6d 35 6c 64 48 64 76 63 6d K1bnRzOm 5ldHdvcm 0100 73 3d 0d 0a 55 70 67 72 61 64 65 2d 49 6e 73 65 s= ..Upgr ade-Inse 0110 63 75 72 65 2d 52 65 71 75 65 73 74 73 3a 20 31 cure-Req uests: 1 0120 0d 0a 55 73 65 72 2d 41 67 65 6e 74 3a 20 4d 6f ..User-A gent: Mo 0130 7a 69 6c 6c 61 2f 35 2e 30 20 28 57 69 6e 64 6f zilla/5. 0 (Windo 0140 77 73 20 4e 54 20 31 30 2e 30 3b 20 57 69 6e 36 ws NT 10 .0; Win6 </pre>
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It is Authorization