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Wireshark packet capture showing an HTTP response from 172.64.149.23 to 10.0.2.15. The response is an HTTP/1.1 200 OK with a content length of 600 bytes. The packet details pane shows the response structure, including headers like Date, Content-Type, and Cache-Control. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
46	2.788434418	10.0.2.15	172.64.149.23	OCSP	485	Request
48	2.789091458	10.0.2.15	172.64.149.23	OCSP	485	Request
50	2.879974410	172.64.149.23	10.0.2.15	OCSP	1472	Response
52	2.883601945	172.64.149.23	10.0.2.15	OCSP	1472	Response

Frame 50: 1472 bytes on wire (11776 bits), 1472 bytes captured (11776 bits) on interface eth0, Ethernet II, Src: 52:55:0a:00:02:02 (52:55:0a:00:02:02), Internet Protocol Version 4, Src: 172.64.149.23, Dst: 10.0.2.15, Transmission Control Protocol, Src Port: 80, Dst Port: 58, Hypertext Transfer Protocol, HTTP/1.1 200 OK\r\n

Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Wed, 08 Oct 2025 05:17:16 GMT\r\nContent-Type: application/ocsp-response\r\nContent-Length: 600\r\nConnection: keep-alive\r\nServer: cloudflare\r\nCF-Ray: 98b32bbf2924893d-BKK\r\nCF-Cache-Status: HIT\r\nAccept-Ranges: bytes\r\nAge: 177\r\nCache-Control: max-age=470176, s-maxage=1800, public, no-transform\r\nETag: "3cac3ae2e3f1e36c1f83316ee1f4d0d84a6cfaac"\r\nExpires: Mon, 13 Oct 2025 16:00:36 GMT\r\nLast-Modified: Mon, 06 Oct 2025 16:00:37 GMT\r\nVary: Accept-Encoding\r\nX-CCACDN-Proxy-ID: mcdpinlb4\r\nX-Frame-Options: SAMEORIGIN\r\n[...]\r\n[Request in frame: 48]
[Time since request: 0.090882952 seconds]
[Request URI: /]
[Full request URI: http://ocsp.sectigo.com/]
File Data: 600 bytes

Online Certificate Status Protocol

Part1: The Basic HTTP GET/response interaction

1. Is your browser running HTTP version 1.0, 1.1, or 2? What version of HTTP is the server running?
 - **HTTP 1.1**
2. What languages (if any) does your browser indicate that it can accept to the Server?
 - **en-US**
3. What is the IP address of your computer? What is the IP address of the gaia.cs.umass.edu server?
 - **My computer IP: 10.0.2.15**
 - **gaia.cs.umass.edu server IP: 172.64.149.23**
4. What is the status code returned from the server to your browser?
 - **HTTP/1.1 200 OK**
5. When was the HTML file that you are retrieving last modified at the server?
 - **Mon, 06 Oct 2025 16:00:37 GMT**
6. How many bytes of content are being returned to your browser?
 - **600 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.
 - **Yes, for example, last-modified.**

Part2: The HTTP CONDITIONAL GET/response interaction

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.

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No.    Time           Source            Destination       Protocol  Length  Info
123    1.426064908      10.0.2.15         34.107.221.82    HTTP     364     GET /success.txt?ip4 HTTP/1.1
129    1.477916911      34.107.221.82     10.0.2.15        HTTP     270     HTTP/1.1 200 OK (text/plain)
150    18.423613755     10.0.2.15         128.119.245.12   HTTP     431     GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
156    18.776300077     128.119.245.12    10.0.2.15        HTTP     784     HTTP/1.1 200 OK (text/html)
158    18.819348708     10.0.2.15         128.119.245.12   HTTP     451     GET /favicon.ico HTTP/1.1
160    19.157869300     128.119.245.12    10.0.2.15        HTTP     539     HTTP/1.1 404 Not Found (text/html)
164    22.109302426     10.0.2.15         128.119.245.12   HTTP     517     GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
166    22.445831608     128.119.245.12    10.0.2.15        HTTP     293     HTTP/1.1 304 Not Modified

Frame 150: 431 bytes on wire (3448 bits), 431 bytes captured (3448 bits) on interface eth0, id 0
  Ethernet II, Src: PCSysmtec_83:c9:25 (08:00:27:83:c9:25), Dst: 52:55:0a:00:02:02 (52:55:0a:00:02:02)
  Internet Protocol Version 4, Src: 10.0.2.15, Dst: 128.119.245.12
  Transmission Control Protocol, Src Port: 52194, Dst Port: 80, Seq: 1, Ack: 1, Len: 377
  Hypertext Transfer Protocol
    GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
    Request Method: GET\r\n
    Request URI: /wireshark-labs/HTTP-wireshark-file2.html\r\n
    Request Version: HTTP/1.1\r\n
    Host: gaia.cs.umass.edu\r\n
    User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
    Accept-Language: en-US,en;q=0.5\r\n
    Accept-Encoding: gzip, deflate\r\n
    Connection: keep-alive\r\n
    Upgrade-Insecure-Requests: 1\r\n
    Priority: u=0, i\r\n
    \r\n
    [Response in frame 156]
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
```

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

- Yes, because it is shown in “Line-based text data”

```

No.    Time           Source            Destination       Protocol  Length  Info
123    1.426064908      10.0.2.15         34.107.221.82    HTTP     364     GET /success.txt?ip4 HTTP/1.1
129    1.477916911      34.107.221.82     10.0.2.15        HTTP     270     HTTP/1.1 200 OK (text/plain)
150    18.423613755     10.0.2.15         128.119.245.12   HTTP     431     GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
156    18.776300077     128.119.245.12    10.0.2.15        HTTP     784     HTTP/1.1 200 OK (text/html)
158    18.819348708     10.0.2.15         128.119.245.12   HTTP     451     GET /favicon.ico HTTP/1.1
160    19.157869300     128.119.245.12    10.0.2.15        HTTP     539     HTTP/1.1 404 Not Found (text/html)
164    22.109302426     10.0.2.15         128.119.245.12   HTTP     517     GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
166    22.445831608     128.119.245.12    10.0.2.15        HTTP     293     HTTP/1.1 304 Not Modified

Frame 156: 784 bytes on wire (6272 bits), 784 bytes captured (6272 bits) on interface eth0, id 0
  Ethernet II, Src: 52:55:0a:00:02:02 (52:55:0a:00:02:02), Dst: PCSysmtec_83:c9:25 (08:00:27:83:c9:25)
  Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.2.15
  Transmission Control Protocol, Src Port: 80, Dst Port: 52194, Seq: 1, Ack: 378, Len: 730
  Hypertext Transfer Protocol
    HTTP/1.1 200 OK\r\n
    Response Version: HTTP/1.1\r\n
    Status Code: 200\r\n
    [Status Code Description: OK]\r\n
    Response Phrase: OK\r\n
    Date: Wed, 08 Oct 2025 07:11:59 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: Wed, 08 Oct 2025 05:59:01 GMT\r\n
    ETag: "173-6409f61969462"\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
    [Request in frame 150]
    [Time since request: 0.352686322 seconds]
    [Request URI: /wireshark-labs/HTTP-wireshark-file2.html]
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
    File Data: 371 bytes
  Line-based text data: text/html (10 lines)
    \n
    <html>\n
    \n
    Congratulations again! Now you've downloaded the file lab2-2.html. <br>\n
    This file's last modification date will not change. <p>\n
    Thus if you download this multiple times on your browser, a complete copy <br>\n
    will only be sent once by the server due to the inclusion of the IF-MODIFIED-SINCE<br>\n
    \n
    HTTP Response Reason Phrase (http response phrase): 2 bytes
```

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?

- Yes.
- Information that follows the header: “Wed, 08 Oct 2025 05:59:01 GMT”

Wireshark packet capture showing an HTTP GET request for /wireshark-labs/HTTP-wireshark-file2.html. The packet list shows frame 164 selected. The packet details pane shows the HTTP request structure, including the status code 304 (Not Modified) and the response phrase 'Not Modified'.

No.	Time	Source	Destination	Protocol	Length	Info
123	1.426064908	10.0.2.15	34.107.221.82	HTTP	364	GET /success.txt?ipv4 HTTP/1.1
129	1.477916911	34.107.221.82	10.0.2.15	HTTP	270	HTTP/1.1 200 OK (text/plain)
150	18.423613755	10.0.2.15	128.119.245.12	HTTP	431	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
156	18.776300077	128.119.245.12	10.0.2.15	HTTP	784	HTTP/1.1 200 OK (text/html)
158	18.819348708	10.0.2.15	128.119.245.12	HTTP	451	GET /favicon.ico HTTP/1.1
160	19.157869300	128.119.245.12	10.0.2.15	HTTP	539	HTTP/1.1 404 Not Found (text/html)
164	22.109302426	10.0.2.15	128.119.245.12	HTTP	517	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
166	22.445831608	128.119.245.12	10.0.2.15	HTTP	293	HTTP/1.1 304 Not Modified

Frame 164: 517 bytes on wire (4136 bits), 517 bytes captured (4136 bits) on interface eth0, id 0

Ethernet II, Src: PCSSystemtec_83:c9:25 (08:00:27:83:c9:25), Dst: 52:55:0a:00:02:02 (52:55:0a:00:02:02)

Internet Protocol Version 4, Src: 10.0.2.15, Dst: 128.119.245.12

Transmission Control Protocol, Src Port: 52194, Dst Port: 80, Seq: 378, Ack: 731, Len: 463

Hypertext Transfer Protocol

- GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
 Request Method: GET
 Request URI: /wireshark-labs/HTTP-wireshark-file2.html
 Request Version: HTTP/1.1
 Host: gaia.cs.umass.edu\r\n
 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0\r\n
 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
 Accept-Language: en-US,en;q=0.5\r\n
 Accept-Encoding: gzip, deflate\r\n
 Connection: keep-alive\r\n
 Upgrade-Insecure-Requests: 1\r\n
 If-Modified-Since: Wed, 08 Oct 2025 05:59:01 GMT\r\n
 If-None-Match: "173-6409f61969462"\r\n
 Priority: u=0, i\r\n
 \r\n
 [Response in frame 166]
 [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]

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.

- **Status code: 304 with Response Phase: Not Modified**
- **It didn't explicitly return the contents of the file.**

Wireshark packet capture showing an HTTP GET request for /wireshark-labs/HTTP-wireshark-file2.html. The packet list shows frame 166 selected. The packet details pane shows the HTTP response structure, including the status code 304 (Not Modified) and the response phrase 'Not Modified'.

No.	Time	Source	Destination	Protocol	Length	Info
123	1.426064908	10.0.2.15	34.107.221.82	HTTP	364	GET /success.txt?ipv4 HTTP/1.1
129	1.477916911	34.107.221.82	10.0.2.15	HTTP	270	HTTP/1.1 200 OK (text/plain)
150	18.423613755	10.0.2.15	128.119.245.12	HTTP	431	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
156	18.776300077	128.119.245.12	10.0.2.15	HTTP	784	HTTP/1.1 200 OK (text/html)
158	18.819348708	10.0.2.15	128.119.245.12	HTTP	451	GET /favicon.ico HTTP/1.1
160	19.157869300	128.119.245.12	10.0.2.15	HTTP	539	HTTP/1.1 404 Not Found (text/html)
164	22.109302426	10.0.2.15	128.119.245.12	HTTP	517	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
166	22.445831608	128.119.245.12	10.0.2.15	HTTP	293	HTTP/1.1 304 Not Modified

Frame 166: 293 bytes on wire (2344 bits), 293 bytes captured (2344 bits) on interface eth0, id 0

Ethernet II, Src: 52:55:0a:00:02:02 (52:55:0a:00:02:02), Dst: PCSSystemtec_83:c9:25 (08:00:27:83:c9:25)

Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.2.15

Transmission Control Protocol, Src Port: 80, Dst Port: 52194, Seq: 731, Ack: 841, Len: 239

Hypertext Transfer Protocol

- 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: Wed, 08 Oct 2025 07:12:02 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
 Connection: Keep-Alive\r\n
 Keep-Alive: timeout=5, max=99\r\n
 ETag: "173-6409f61969462"\r\n
 \r\n
 [Request in frame 164]
 [Time since request: 0.336529182 seconds]
 [Request URI: /wireshark-labs/HTTP-wireshark-file2.html]
 [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]

Part3: Retrieving Long Documents

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 1 request.
- Packet number 12.

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

- Packet number 20.

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

- Status code: 200 with Respond phrase: OK

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

- 2 TCP segments were needed.

The image shows a Wireshark network traffic capture on interface eth0. The packet list on the left shows a series of TCP segments and one HTTP GET request (packet 12) and one HTTP 200 OK response (packet 20). The packet details pane on the right shows the structure of the HTTP response, including the status code 200 OK and the response phrase OK. The packet bytes pane at the bottom shows the raw data of the response, which is a 4861-byte HTML document titled "Historical Documents: THE BILL OF RIGHTS".

No.	Time	Source	Destination	Protocol	Length	Info
12	0.342439363	10.0.2.15	128.119.245.12	HTTP	431	GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
13	0.342771513	128.119.245.12	10.0.2.15	TCP	60	80 → 50050 [ACK] Seq=1 Ack=378 Win=65535 Len=0
14	0.363732382	128.119.245.12	10.0.2.15	TCP	60	80 → 50054 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460
15	0.363765853	10.0.2.15	128.119.245.12	TCP	54	50054 → 80 [ACK] Seq=1 Ack=1 Win=64240 Len=0
16	0.601446455	128.119.245.12	10.0.2.15	TCP	60	80 → 50060 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460
17	0.601473501	10.0.2.15	128.119.245.12	TCP	54	50060 → 80 [ACK] Seq=1 Ack=1 Win=64240 Len=0
18	0.674422519	128.119.245.12	10.0.2.15	TCP	2934	80 → 50050 [ACK] Seq=1 Ack=378 Win=65535 Len=2880 [TCP PDU reass
19	0.674443960	10.0.2.15	128.119.245.12	TCP	54	50050 → 80 [ACK] Seq=378 Ack=2881 Win=65535 Len=0
20	0.674695822	128.119.245.12	10.0.2.15	HTTP	2035	HTTP/1.1 200 OK (text/html)

Frame 20: 2035 bytes on wire (16280 bits), 2035 bytes captured (16280 bits) on interface eth0, id 0
Ethernet II, Src: 52:55:0a:00:02:02 (52:55:0a:00:02:02), Dst: PCSSystemtec_83:c9:25 (08:00:27:83:c9:25)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.2.15
Transmission Control Protocol, Src Port: 80, Dst Port: 50050, Seq: 2881, Ack: 378, Len: 1981
[2 Reassembled TCP Segments (4861 bytes): #18(2880), #20(1981)]
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Wed, 08 Oct 2025 07:24:56 GMT\r\nServer: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\nLast-Modified: Wed, 08 Oct 2025 05:59:01 GMT\r\nETag: "1194-6409f619655e1"\r\nAccept-Ranges: bytes\r\nContent-Length: 4500\r\nKeep-Alive: timeout=5, max=100\r\nConnection: Keep-Alive\r\nContent-Type: text/html; charset=UTF-8\r\n\r\n[Request in frame: 12]
[Time since request: 0.332256459 seconds]
[Request URI: /wireshark-labs/HTTP-wireshark-file3.html]
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html]
File Data: 4500 bytes
Line-based text data: text/html (98 lines)
<html><head> \n<title>Historical Documents:THE BILL OF RIGHTS</title></head>\n\n\n<body bgcolor="#ffffff" link="#330000" vlink="#666633">\n<hr>\n

Part4: HTML Documents with Embedded Objects

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

- 3 request

- 1st request was sent to

“<http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html>”

[Full request URI: <http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html>]

- 2nd request was sent to “<http://gaia.cs.umass.edu/pearson.png>”

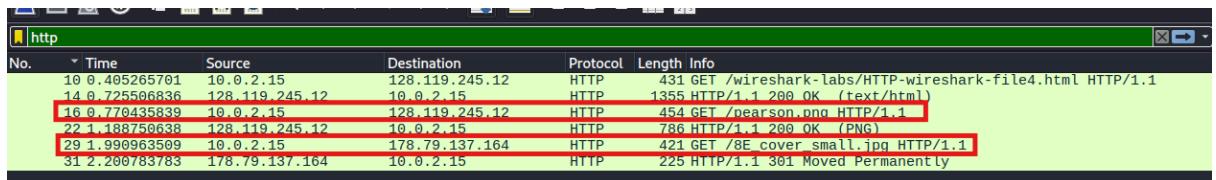
[Full request URI: <http://gaia.cs.umass.edu/pearson.png>]

- 3rd request was sent to “http://kurose.cslash.net/8E_cover_small.jpg”

[Full request URI: http://kurose.cslash.net/8E_cover_small.jpg]

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.

- **Serially, because the time of the GET request for the “8E_cover_small.jpg” (1.9s) was sent after we got a response from the “pearson.png” request (1.18s).**

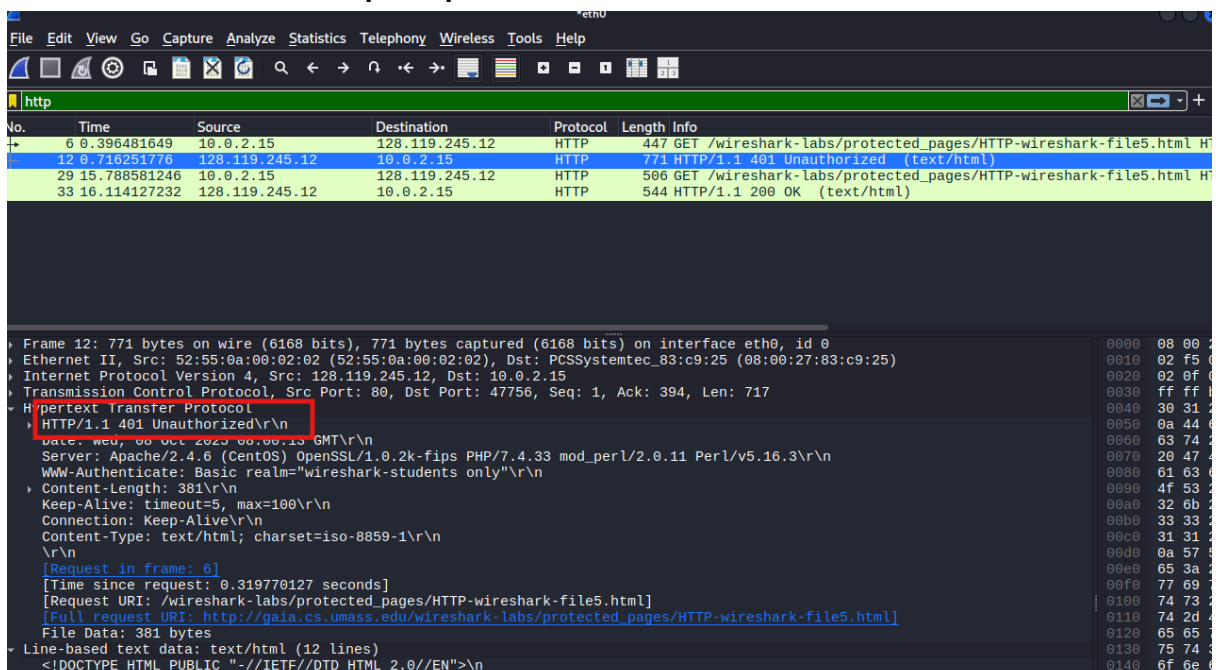


No.	Time	Source	Destination	Protocol	Length	Info
10	0.405265701	10.0.2.15	128.119.245.12	HTTP	431	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
14	0.725586836	128.119.245.12	10.0.2.15	HTTP	1355	HTTP/1.1 200 OK (text/html)
16	0.770435839	10.0.2.15	128.119.245.12	HTTP	454	GET /pearson.png HTTP/1.1
22	1.188750638	128.119.245.12	10.0.2.15	HTTP	786	HTTP/1.1 200 OK (PNG)
29	1.990963509	10.0.2.15	178.79.137.164	HTTP	421	GET /8E_cover_small.jpg HTTP/1.1
31	2.200783783	178.79.137.164	10.0.2.15	HTTP	225	HTTP/1.1 301 Moved Permanently

Part5: HTTP Authentication

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

- **Status code: 401 with Respond phrase: “Unauthorized”**



No.	Time	Source	Destination	Protocol	Length	Info
6	0.396481649	10.0.2.15	128.119.245.12	HTTP	447	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1
12	0.716251776	128.119.245.12	10.0.2.15	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
29	15.788581246	10.0.2.15	128.119.245.12	HTTP	506	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1
33	16.114127232	128.119.245.12	10.0.2.15	HTTP	544	HTTP/1.1 200 OK (text/html)

Frame 12: 771 bytes on wire (6168 bits), 771 bytes captured (6168 bits) on interface eth0, id 0
Ethernet II, Src: 52:55:0a:00:02:02 (52:55:0a:00:02:02), Dst: PCSSystemtec_83:c9:25 (08:00:27:83:c9:25)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.2.15
Transmission Control Protocol, Src Port: 80, Dst Port: 47756, Seq: 1, Ack: 394, Len: 717
Hypertext Transfer Protocol
 HTTP/1.1 401 Unauthorized
 Date: Wed, 06 Oct 2023 00:00:13 GMT
 Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3
 WWW-Authenticate: Basic realm="wireshark-students only"
 Content-Length: 381
 Keep-Alive: timeout=5, max=100
 Connection: Keep-Alive
 Content-Type: text/html; charset=iso-8859-1
 \r\n
 [Request in frame: 6]
 [Time since request: 0.319770127 seconds]
 [Request URI: /wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
 [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
 File Data: 381 bytes
 Line-based text data: text/html (12 lines)
 <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
 \r\n

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

- **Authorization header was included.**

No.	Time	Source	Destination	Protocol	Length	Info
6	0.396481649	10.0.2.15	128.119.245.12	HTTP	447	GET /wireshark-labs/protected_pages/HTTP-wiresha
12	0.716251776	128.119.245.12	10.0.2.15	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
29	15.788581246	10.0.2.15	128.119.245.12	HTTP	506	GET /wireshark-labs/protected_pages/HTTP-wiresha
33	16.114127232	128.119.245.12	10.0.2.15	HTTP	544	HTTP/1.1 200 OK (text/html)

Frame 6: 447 bytes on wire (3576 bits), 447 bytes captured (3576 bits) on interface eth0, id 0
Ethernet II, Src: PCSSystemtec_83:c9:25 (08:00:27:83:c9:25), Dst: 52:55:0a:00:02:02 (52:55:0a:00:02:02)
Internet Protocol Version 4, Src: 10.0.2.15, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 47756, Dst Port: 80, Seq: 1, Ack: 1, Len: 393
Hypertext Transfer Protocol
GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\nHost: gaia.cs.umass.edu\r\nUser-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\nAccept-Language: en-US,en;q=0.5\r\nAccept-Encoding: gzip, deflate\r\nConnection: keep-alive\r\nUpgrade-Insecure-Requests: 1\r\nPriority: u=0, i\r\n\r\n[Response in frame: 12]
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]

No.	Time	Source	Destination	Protocol	Length	Info
6	0.396481649	10.0.2.15	128.119.245.12	HTTP	447	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.
12	0.716251776	128.119.245.12	10.0.2.15	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
29	15.788581246	10.0.2.15	128.119.245.12	HTTP	506	GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.
33	16.114127232	128.119.245.12	10.0.2.15	HTTP	544	HTTP/1.1 200 OK (text/html)

Frame 29: 506 bytes on wire (4048 bits), 506 bytes captured (4048 bits) on interface eth0, id 0
Ethernet II, Src: PCSSystemtec_83:c9:25 (08:00:27:83:c9:25), Dst: 52:55:0a:00:02:02 (52:55:0a:00:02:02)
Internet Protocol Version 4, Src: 10.0.2.15, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 52334, Dst Port: 80, Seq: 1, Ack: 1, Len: 452
Hypertext Transfer Protocol
GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\nHost: gaia.cs.umass.edu\r\nUser-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\nAccept-Language: en-US,en;q=0.5\r\nAccept-Encoding: gzip, deflate\r\nConnection: keep-alive\r\nUpgrade-Insecure-Requests: 1\r\nAuthorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\r\n\r\n[Response in frame: 33]
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]