PB20000137

- 1.Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running? 均为 HTTP 1.1
- 2.What languages (if any) does your browser indicate that it can accept to the server?

Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6

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

my computer: 114.214.227.222

gaia.cs.umass.edu: 128.119.245.12

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

200

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

Last-Modified: Fri, 16 Sep 2022 05:59:02 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

没有

• 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?

没有

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

返回,可以看到返回的文件长度为371

• 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?

是

If-Modified-Since: Fri, 16 Sep 2022 05:59:02 GMT\r\n

• 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

304 Not Modified

没有,因为内容没有修改,会直接从缓存中获取信息

• 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?

1 HTTP GET requst message

102,103,104,105 都包括

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

102

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

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

4

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

3

128.119.245.12

128.119.245.12

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

并行下载

第一张图片请求返回在 2.58s 而第二张图片请求在 2.54s

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

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?

Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\r\n

```
No.
       Time
                       Source
                                             Destination
                                                                   Protocol Length Info
                                                                                   GET /wireshark-labs/HTTP-wireshark-
  5086 64.849906
                      114.214.227.222
                                             128.119.245.12
                                                                            566
                                                                   HTTP
file1.html HTTP/1.1
Frame 5086: 566 bytes on wire (4528 bits), 566 bytes captured (4528 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2)
Internet Protocol Version 4, Src: 114.214.227.222, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 61099, Dst Port: 80, Seq: 1, Ack: 1, Len: 512
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/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/
537.36 Edg/105.0.1343.33\r\n
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-
exchange; v=b3; q=0.9\r\n
   Accept-Encoding: gzip, deflate\r\n
   Accept-Language: zh-CN, zh; q=0.9, en; q=0.8, en-GB; q=0.7, en-US; q=0.6\r\n
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]
   [HTTP request 1/2]
   [Response in frame: 5165]
   [Next request in frame: 5176]
No.
       Time
                       Source
                                             Destination
                                                                   Protocol Length Info
  5165 66.301946
                      128.119.245.12
                                             114.214.227.222
                                                                   HTTP
                                                                            540
                                                                                    HTTP/1.1 200 OK (text/html)
Frame 5165: 540 bytes on wire (4320 bits), 540 bytes captured (4320 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.227.222
Transmission Control Protocol, Src Port: 80, Dst Port: 61099, Seq: 1, Ack: 513, Len: 486
Hypertext Transfer Protocol
   HTTP/1.1 200 OK\r\n
   Date: Fri, 16 Sep 2022 08:11:29 GMT\r\n
   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
   Last-Modified: Fri, 16 Sep 2022 05:59:02 GMT\r\n
   ETag: "80-5e8c50f0c1a6a"\r\n
   Accept-Ranges: bytes\r\n
   Content-Length: 128\r\n
       [Content length: 128]
   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: 1.452040000 seconds]
   [Request in frame: 5086]
   [Next request in frame: 5176]
   [Next response in frame: 5189]
   [Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]
   File Data: 128 bytes
Line-based text data: text/html (4 lines)
```

Congratulations. You've downloaded the file \n

</html>\n

http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html!\n

```
No.
       Time
                       Source
                                             Destination
                                                                   Protocol Length Info
   378 4.163557
                      114.214.227.222
                                             128.119.245.12
                                                                            566
                                                                   HTTP
                                                                                    GET /wireshark-labs/HTTP-wireshark-
file2.html HTTP/1.1
Frame 378: 566 bytes on wire (4528 bits), 566 bytes captured (4528 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2)
Internet Protocol Version 4, Src: 114.214.227.222, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 61631, Dst Port: 80, Seq: 1, Ack: 1, Len: 512
Hypertext Transfer Protocol
   GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
       [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
            [GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
       Request Method: GET
       Request URI: /wireshark-labs/HTTP-wireshark-file2.html
       Request Version: HTTP/1.1
   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/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/
537.36 Edg/105.0.1343.33\r\n
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-
exchange;v=b3;q=0.9\r\n
   Accept-Encoding: gzip, deflate\r\n
   Accept-Language: zh-CN, zh; q=0.9, en; q=0.8, en-GB; q=0.7, en-US; q=0.6 \r\
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
   [HTTP request 1/1]
   [Response in frame: 393]
No.
       Time
                       Source
                                             Destination
                                                                   Protocol Length Info
   393 4.525862
                      128.119.245.12
                                             114.214.227.222
                                                                   HTTP
                                                                             784
                                                                                    HTTP/1.1 200 OK (text/html)
Frame 393: 784 bytes on wire (6272 bits), 784 bytes captured (6272 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.227.222
Transmission Control Protocol, Src Port: 80, Dst Port: 61631, Seq: 1, Ack: 513, Len: 730
Hypertext Transfer Protocol
   HTTP/1.1 200 OK\r\n
       [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
            [HTTP/1.1 200 OK\r\n]
            [Severity level: Chat]
            [Group: Sequence]
       Response Version: HTTP/1.1
       Status Code: 200
       [Status Code Description: OK]
       Response Phrase: OK
   Date: Fri, 16 Sep 2022 08:45:17 GMT\r\n
   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
   Last-Modified: Fri, 16 Sep 2022 05:59:02 GMT\r\n
   ETag: "173-5e8c50f0c0eb2"\r\n
   Accept-Ranges: bytes\r\n
   Content-Length: 371\r\n
       [Content length: 371]
   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 1/1]
   [Time since request: 0.362305000 seconds]
   [Request in frame: 378]
   [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. \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 IN-MODIFIED-SINCE<br/>br>\n
   field in your browser's HTTP GET request to the server.\n
   \n
   </html>\n
No.
       Time
                       Source
                                             Destination
                                                                   Protocol Length Info
  2603 27.667653
                       114.214.227.222
                                             128.119.245.12
                                                                             678
                                                                                    GET /wireshark-labs/HTTP-wireshark-
                                                                   HTTP
```

file2.html HTTP/1.1

```
Frame 2603: 678 bytes on wire (5424 bits), 678 bytes captured (5424 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2)
Internet Protocol Version 4, Src: 114.214.227.222, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 61632, Dst Port: 80, Seq: 1, Ack: 1, Len: 624
Hypertext Transfer Protocol
   GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
       [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
            [GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
       Request Method: GET
       Request URI: /wireshark-labs/HTTP-wireshark-file2.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
   Upgrade-Insecure-Requests: 1\r\n
   User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/
537.36 Edg/105.0.1343.33\r\n
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-
exchange;v=b3;q=0.9\r\n
   Accept-Encoding: gzip, deflate\r\n
   Accept-Language: zh-CN, zh; q=0.9, en; q=0.8, en-GB; q=0.7, en-US; q=0.6\r\n
   If-None-Match: "173-5e8c50f0c0eb2"\r\n
   If-Modified-Since: Fri, 16 Sep 2022 05:59:02 GMT\r\n
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
   [HTTP request 1/1]
   [Response in frame: 2642]
No.
       Time
                       Source
                                             Destination
                                                                   Protocol Length Info
  2642 27.941084
                      128.119.245.12
                                             114.214.227.222
                                                                   HTTP
                                                                            294
                                                                                   HTTP/1.1 304 Not Modified
Frame 2642: 294 bytes on wire (2352 bits), 294 bytes captured (2352 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.227.222
Transmission Control Protocol, Src Port: 80, Dst Port: 61632, Seq: 1, Ack: 625, Len: 240
Hypertext Transfer Protocol
   HTTP/1.1 304 Not Modified\r\n
       [Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]
            [HTTP/1.1 304 Not Modified\r\n]
            [Severity level: Chat]
            [Group: Sequence]
       Response Version: HTTP/1.1
       Status Code: 304
       [Status Code Description: Not Modified]
       Response Phrase: Not Modified
   Date: Fri, 16 Sep 2022 08:45:41 GMT\r\n
   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
   Connection: Keep-Alive\r\n
   Keep-Alive: timeout=5, max=100\r\n
   ETag: "173-5e8c50f0c0eb2"\r\n
   [HTTP response 1/1]
   [Time since request: 0.273431000 seconds]
   [Request in frame: 2603]
```

[Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]

```
No.
       Time
                       Source
                                             Destination
                                                                    Protocol Length Info
    74 2.542365
                      114.214.227.222
                                             128.119.245.12
                                                                   HTTP
                                                                            566
                                                                                    GET /wireshark-labs/HTTP-wireshark-
file3.html HTTP/1.1
Frame 74: 566 bytes on wire (4528 bits), 566 bytes captured (4528 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2)
Internet Protocol Version 4, Src: 114.214.227.222, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 61844, Dst Port: 80, Seq: 1, Ack: 1, Len: 512
Hypertext Transfer Protocol
   GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1\r\n
       [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1\r\n]
            [GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
       Request Method: GET
       Request URI: /wireshark-labs/HTTP-wireshark-file3.html
       Request Version: HTTP/1.1
   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/537.36 (KHTML, like Gecko) Chrome/105.0.0.0 Safari/
537.36 Edg/105.0.1343.33\r\n
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-
exchange; v=b3; q=0.9\r\n
   Accept-Encoding: gzip, deflate\r\n
   Accept-Language: zh-CN, zh; q=0.9, en; q=0.8, en-GB; q=0.7, en-US; q=0.6 \r\
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html]
   [HTTP request 1/1]
   [Response in frame: 105]
No.
       Time
                      Source
                                             Destination
                                                                    Protocol Length Info
   105 2.803738
                      128.119.245.12
                                             114.214.227.222
                                                                   HTTP
                                                                            535
                                                                                    HTTP/1.1 200 OK (text/html)
Frame 105: 535 bytes on wire (4280 bits), 535 bytes captured (4280 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.227.222
Transmission Control Protocol, Src Port: 80, Dst Port: 61844, Seq: 4381, Ack: 513, Len: 481
[4 Reassembled TCP Segments (4861 bytes): #102(1460), #103(1460), #104(1460), #105(481)]
   [Frame: 102, payload: 0-1459 (1460 bytes)]
   [Frame: 103, payload: 1460-2919 (1460 bytes)]
   [Frame: 104, payload: 2920-4379 (1460 bytes)]
   [Frame: 105, payload: 4380-4860 (481 bytes)]
   [Segment count: 4]
   [Reassembled TCP length: 4861]
   [Reassembled TCP Data: 485454502f312e3120323030204f4b0d0a446174653a204672692c203136205365702032...]
Hypertext Transfer Protocol
   HTTP/1.1 200 OK\r\n
       [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
            [HTTP/1.1 200 OK\r\n]
            [Severity level: Chat]
            [Group: Sequence]
       Response Version: HTTP/1.1
       Status Code: 200
       [Status Code Description: OK]
       Response Phrase: OK
   Date: Fri, 16 Sep 2022 09:00:12 GMT\r\n
   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
   Last-Modified: Fri, 16 Sep 2022 05:59:02 GMT\r\n
   ETag: "1194-5e8c50f0bc091"\r\n
   Accept-Ranges: bytes\r\n
   Content-Length: 4500\r\n
        [Content length: 4500]
   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 1/1]
   [Time since request: 0.261373000 seconds]
   [Request in frame: 74]
   [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
```

```
<br>\n
   \n
   <center><b>THE BILL OF RIGHTS</b><br>\n
     <em>Amendments 1-10 of the Constitution\n
   The Conventions of a number of the States having, at the time of adopting\n
   the Constitution, expressed a desire, in order to prevent misconstruction\n
   or abuse of its powers, that further declaratory and restrictive clauses\n
   should be added, and as extending the ground of public confidence in the \n
   Government will best insure the beneficent ends of its institution;  Resolved, by the Senate and House of
Representatives of the United\n
   States of America, in Congress assembled, two-thirds of both Houses concurring,\n
   that the following articles be proposed to the Legislatures of the several\n
   States, as amendments to the Constitution of the United States; all or any\n
   of which articles, when ratified by three-fourths of the said Legislatures, \n
   to be valid to all intents and purposes as part of the said Constitution,\n
              <a name="1"><strong><h3>Amendment I</h3></strong></a>\n
   \n
   Congress shall make no law respecting an establishment of\n
   religion, or prohibiting the free exercise thereof; or\n
   abridging the freedom of speech, or of the press; or the \n
   right of the people peaceably to assemble, and to petition\n
   the government for a redress of grievances.\n
   <a name="2"><strong><h3>Amendment II</h3></strong></a>\n
   A well regulated militia, being necessary to the security\n
   of a free state, the right of the people to keep and bear\n
   arms, shall not be infringed.\n
   <a name="3"><strong><h3>Amendment III</h3></strong></a>\n
   No soldier shall, in time of peace be quartered in any house,\n
   without the consent of the owner, nor in time of war, but\n
   in a manner to be prescribed by law.\n
   <a name="4"><strong><h3>Amendment IV</h3></strong></a>\n
   <fp>The right of the people to be secure in their persons, houses,\n
   papers, and effects, against unreasonable searches and seizures,\n
   shall not be violated, and no warrants shall issue, but upon\n
   probable cause, supported by oath or affirmation, and\n
   particularly describing the place to be searched, and the \n
   persons or things to be seized.\n
   \n
   <a name="5"><strong><h3>Amendment V</h3></strong></a>\n
   No person shall be held to answer for a capital, or otherwise\n
   infamous crime, unless on a presentment or indictment of a grand\n
   jury, except in cases arising in the land or naval forces,\n
   or in the militia, when in actual service in time of war\n
   or public danger; nor shall any person be subject for the\n
   same offense to be twice put in jeopardy of life or limb;\n
   nor shall be compelled in any criminal case to be a witness\n
   against himself, nor be deprived of life, liberty, or property,\n
   without due process of law; nor shall private property be\n
   taken for public use, without just compensation.\n
   <a name="6"><strong><h3>Amendment VI</h3></strong></a>\n
   \n
   In all criminal prosecutions, the accused shall enjoy the right\n
   to a speedy and public trial, by an impartial jury of the state\n
   and district wherein the crime shall have been committed, which\n
   district shall have been previously ascertained by law, and\n
   to be informed of the nature and cause of the accusation;\n
   to be confronted with the witnesses against him; to have\n
   compulsory process for obtaining witnesses in his favor,\n
   and to have the assistance of counsel for his defense.\n
   \n
   <a name="7"><strong><h3>Amendment VII</h3></strong></a>\n
   In suits at common law, where the value in controversy shall\n
   exceed twenty dollars, the right of trial by jury shall be\n
   preserved, and no fact tried by a jury, shall be otherwise\n
   reexamined in any court of the United States, than according\n
```

to the rules of the common law.\n

```
\n
<a name="8"><strong><h3>Amendment VIII</h3></strong></a>\n
\n
Excessive bail shall not be required, nor excessive fines\n
imposed, nor cruel and unusual punishments inflicted.\n
\n
<a name="9"><strong><h3>Amendment IX</h3></strong></a>\n
\n
The enumeration in the Constitution, of certain rights, shall\n
not be construed to deny or disparage others retained by the people.\n
\n
<a name="10"><strong><h3>Amendment X</h3></strong></a>\n
\n
\n
The powers not delegated to the United States by the Constitution, nor prohibited \n
by it to the states, are reserved to the states respectively, or to the people.\n
</body></html>
```

No. Time Source Destination Protocol Length Info 114.214.208.164 GET /wireshark-labs/HTTP-wireshark-54 1.903245 128.119.245.12 HTTP 533 file4.html HTTP/1.1 Frame 54: 533 bytes on wire (4264 bits), 533 bytes captured (4264 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-B4CB-6B8F87A64AB6}, id 0 Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2) Internet Protocol Version 4, Src: 114.214.208.164, Dst: 128.119.245.12 Transmission Control Protocol, Src Port: 62565, Dst Port: 80, Seq: 1, Ack: 1, Len: 479 Hypertext Transfer Protocol Time Destination No. Source Protocol Length Info 61 2.254444 128.119.245.12 114.214.208.164 HTTP 1355 HTTP/1.1 200 OK (text/html) Frame 61: 1355 bytes on wire (10840 bits), 1355 bytes captured (10840 bits) on interface \Device\NPF {493C4AC5-6E7E-4816-B4CB-6B8F87A64AB6}, id 0 Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86) Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.208.164 Transmission Control Protocol, Src Port: 80, Dst Port: 62565, Seq: 1, Ack: 480, Len: 1301 Hypertext Transfer Protocol Line-based text data: text/html (23 lines) No. Time Source Destination Protocol Length Info 63 2.284653 114.214.208.164 128.119.245.12 HTTP 479 GET /pearson.png HTTP/1.1 Frame 63: 479 bytes on wire (3832 bits), 479 bytes captured (3832 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-B4CB-6B8F87A64AB6}, id 0 Ethernet II, Src: IntelCor 3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou 35:8a:e2 (ac:74:09:35:8a:e2) Internet Protocol Version 4, Src: 114.214.208.164, Dst: 128.119.245.12 Transmission Control Protocol, Src Port: 62565, Dst Port: 80, Seq: 480, Ack: 1302, Len: 425 Hypertext Transfer Protocol No. Time Source Destination Protocol Length Info 71 2.547314 114.214.208.164 178.79.137.164 446 HTTP GET /8E_cover_small.jpg HTTP/1.1 Frame 71: 446 bytes on wire (3568 bits), 446 bytes captured (3568 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-B4CB-6B8F87A64AB6}, id 0 Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2) Internet Protocol Version 4, Src: 114.214.208.164, Dst: 178.79.137.164 Transmission Control Protocol, Src Port: 62567, Dst Port: 80, Seq: 1, Ack: 1, Len: 392 Hypertext Transfer Protocol Destination No. Time Source Protocol Length Info 78 2.585452 128.119.245.12 114.214.208.164 HTTP 745 HTTP/1.1 200 OK (PNG) Frame 78: 745 bytes on wire (5960 bits), 745 bytes captured (5960 bits) on interface \Device\NPF {493C4AC5-6E7E-4816-

B4CB-6B8F87A64AB6}, id 0

Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86)

Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.208.164

Transmission Control Protocol, Src Port: 80, Dst Port: 62565, Seq: 4222, Ack: 905, Len: 691

[3 Reassembled TCP Segments (3611 bytes): #76(1460), #77(1460), #78(691)]

Hypertext Transfer Protocol

Portable Network Graphics

Protocol Length Info Time Destination 110 2.798209 178.79.137.164 114.214.208.164 HTTP 225

HTTP/1.1 301 Moved Permanently Frame 110: 225 bytes on wire (1800 bits), 225 bytes captured (1800 bits) on interface \Device\NPF {493C4AC5-6E7E-4816-

B4CB-6B8F87A64AB6}, id 0

Ethernet II, Src: Hangzhou 35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor 3e:5e:86 (a4:b1:c1:3e:5e:86)

Internet Protocol Version 4, Src: 178.79.137.164, Dst: 114.214.208.164

Transmission Control Protocol, Src Port: 80, Dst Port: 62567, Seq: 1, Ack: 393, Len: 171

Hypertext Transfer Protocol

```
No.
       Time
                      Source
                                           Destination
                                                                 Protocol Length Info
   177 1.821132
                      114.214.227.222
                                           128.119.245.12
                                                                          545
                                                                                 GET /wireshark-labs/protected_pages/HTTP-
                                                                 HTTP
wireshark-file5.html HTTP/1.1
Frame 177: 545 bytes on wire (4360 bits), 545 bytes captured (4360 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2)
Internet Protocol Version 4, Src: 114.214.227.222, Dst: 128.119.245.12
   0100 .... = Version: 4
     .. 0101 = Header Length: 20 bytes (5)
   Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
   Total Length: 531
   Identification: 0x9f85 (40837)
   Flags: 0x40, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
   Time to Live: 128
   Protocol: TCP (6)
   Header Checksum: 0x0000 [validation disabled]
   [Header checksum status: Unverified]
   Source Address: 114.214.227.222
   Destination Address: 128.119.245.12
Transmission Control Protocol, Src Port: 50363, Dst Port: 80, Seq: 1, Ack: 1, Len: 491
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]
       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
   Upgrade-Insecure-Requests: 1\r\n
   User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/94.0.4606.71 Safari/
537.36\r\n
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/
signed-exchange;v=b3;q=0.9\r\n
   Accept-Encoding: gzip, deflate\r\n
   Accept-Language: zh-CN,zh;q=0.9\r\n
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
   [HTTP request 1/1]
   [Response in frame: 201]
No.
       Time
                      Source
                                           Destination
                                                                 Protocol Length Info
   201 2.080870
                                           114.214.227.222
                                                                 HTTP
                                                                          771
                                                                                 HTTP/1.1 401 Unauthorized (text/html)
                      128.119.245.12
Frame 201: 771 bytes on wire (6168 bits), 771 bytes captured (6168 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: Hangzhou 35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor 3e:5e:86 (a4:b1:c1:3e:5e:86)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.227.222
   0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
   Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
   Total Length: 757
   Identification: 0x701d (28701)
   Flags: 0x40, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
   Time to Live: 32
   Protocol: TCP (6)
   Header Checksum: 0x1bad [validation disabled]
   [Header checksum status: Unverified]
   Source Address: 128.119.245.12
   Destination Address: 114.214.227.222
Transmission Control Protocol, Src Port: 80, Dst Port: 50363, Seq: 1, Ack: 492, Len: 717
Hypertext Transfer Protocol
   HTTP/1.1 401 Unauthorized\r\n
       [Expert Info (Chat/Sequence): HTTP/1.1 401 Unauthorized\r\n]
       Response Version: HTTP/1.1
       Status Code: 401
       [Status Code Description: Unauthorized]
       Response Phrase: Unauthorized
   Date: Fri, 16 Sep 2022 14:14:28 GMT\r\n
   WWW-Authenticate: Basic realm="wireshark-students only"\r\n
   Content-Length: 381\r\n
        [Content length: 381]
   Keep-Alive: timeout=5, max=100\r\n
   Connection: Keep-Alive\r\n
   Content-Type: text/html; charset=iso-8859-1\r\n
   \r\n
   [HTTP response 1/1]
```

```
[Time since request: 0.259738000 seconds]
   [Request in frame: 177]
   [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">\n
   <html><head>\n
   <title>401 Unauthorized</title>\n
   </head><body>\n
   <h1>Unauthorized</h1>\n
   This server could not verify that you\n
   are authorized to access the document\n
   requested. Either you supplied the wrong\n
   credentials (e.g., bad password), or your\n
   browser doesn't understand how to supply\n
   the credentials required.\n
   </body></html>\n
       Time
                      Source
                                             Destination
                                                                   Protocol Length Info
   901 10.591197
                      114.214.227.222
                                             128.119.245.12
                                                                   HTTP
                                                                            630
                                                                                   GET /wireshark-labs/protected_pages/HTTP-
wireshark-file5.html HTTP/1.1
Frame 901: 630 bytes on wire (5040 bits), 630 bytes captured (5040 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86), Dst: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2)
Internet Protocol Version 4, Src: 114.214.227.222, Dst: 128.119.245.12
   0100 .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
   Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
   Total Length: 616
   Identification: 0x9f8b (40843)
   Flags: 0x40, Don't fragment
   ...0 0000 0000 0000 = Fragment Offset: 0
   Time to Live: 128
   Protocol: TCP (6)
   Header Checksum: 0x0000 [validation disabled]
   [Header checksum status: Unverified]
   Source Address: 114.214.227.222
   Destination Address: 128.119.245.12
Transmission Control Protocol, Src Port: 51964, Dst Port: 80, Seq: 1, Ack: 1, Len: 576
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]
       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 d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\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/94.0.4606.71 Safari/
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/
signed-exchange; v=b3; q=0.9\r\n
   Accept-Encoding: gzip, deflate\r\n
   Accept-Language: zh-CN,zh;q=0.9\r\n
   \r\n
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
   [HTTP request 1/2]
   [Response in frame: 945]
   [Next request in frame: 947]
       Time
                      Source
                                             Destination
                                                                   Protocol Length Info
   945 10.866822
                      128.119.245.12
                                            114.214.227.222
                                                                   HTTP
                                                                            544
                                                                                   HTTP/1.1 200 OK (text/html)
Frame 945: 544 bytes on wire (4352 bits), 544 bytes captured (4352 bits) on interface \Device\NPF_{493C4AC5-6E7E-4816-
B4CB-6B8F87A64AB6}, id 0
Ethernet II, Src: Hangzhou_35:8a:e2 (ac:74:09:35:8a:e2), Dst: IntelCor_3e:5e:86 (a4:b1:c1:3e:5e:86)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 114.214.227.222
   0100 .... = Version: 4
   .... 0101 = Header Length: 20 bytes (5)
   Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
   Total Length: 530
   Identification: 0x89c2 (35266)
   Flags: 0x40, Don't fragment
    ...0 0000 0000 0000 = Fragment Offset: 0
   Time to Live: 33
   Protocol: TCP (6)
   Header Checksum: 0x01eb [validation disabled]
   [Header checksum status: Unverified]
```

No.

```
Source Address: 128.119.245.12
   Destination Address: 114.214.227.222
Transmission Control Protocol, Src Port: 80, Dst Port: 51964, Seq: 1, Ack: 577, Len: 490
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: Fri, 16 Sep 2022 14:14:36 GMT\r\n
   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
   Last-Modified: Fri, 16 Sep 2022 05:59:02 GMT\r\n
   ETag: "84-5e8c50f0c2df2"\r\n
   Accept-Ranges: bytes\r\n
   Content-Length: 132\r\n
       [Content length: 132]
   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: 0.275625000 seconds]
   [Request in frame: 901]
   [Next request in frame: 947]
   [Next response in frame: 964]
   [Request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
   File Data: 132 bytes
Line-based text data: text/html (6 lines)
   \n
   <html>\n
   \n
   This page is password protected! If you're seeing this, you've downloaded the page correctly <br/>
   Congratulations!\n
   </html>
```