

CS372 Lab 2
Hudson Dean

1. browser: version 1.1 Server: version 1.1
2. en-US,EN;q=0.5\r\n
3. my computer IP address: 192.168.7.39 Server IP address: 128.119.245.12
4. Status code: 200 OK
5. Wed, 24 Apr 2019 05:59:01 GMT
6. 128 bytes
7. No

*Ethernet

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
66	17:03:03.353331	192.168.7.39	104.254.150.79	HTTP	541	GET /vevent?referrer=http%3A%2F%2Fwww.msn.com
73	17:03:03.373154	104.254.150.79	192.168.7.39	HTTP	730	HTTP/1.1 200 OK
162	17:03:04.965534	192.168.7.39	104.254.150.79	HTTP	1002	GET /vevent?referrer=http%3A%2F%2Fwww.msn.com
176	17:03:04.992601	104.254.150.79	192.168.7.39	HTTP	729	HTTP/1.1 200 OK
188	17:03:04.996304	192.168.7.39	104.254.150.79	HTTP	635	GET /vevent?referrer=http%3A%2F%2Fwww.msn.com
202	17:03:05.016979	104.254.150.79	192.168.7.39	HTTP	730	HTTP/1.1 200 OK
219	17:03:05.037213	192.168.7.39	54.236.194.134	HTTP	731	GET /t/v1/event?migClientId=6715&migAction=mo
220	17:03:05.037721	192.168.7.39	54.236.194.134	HTTP	732	GET /t/v1/event?migClientId=6715&migAction=mo
229	17:03:05.124162	54.236.194.134	192.168.7.39	HTTP	727	HTTP/1.1 200 200 (GIF89a)
233	17:03:05.125341	54.236.194.134	192.168.7.39	HTTP	727	HTTP/1.1 200 200 (GIF89a)
240	17:03:05.223446	192.168.7.39	128.119.245.12	HTTP	367	GET /wireshark-labs/HTTP-wireshark-file1.html
242	17:03:05.323776	128.119.245.12	192.168.7.39	HTTP	540	HTTP/1.1 200 OK (text/html)
245	17:03:05.328735	192.168.7.39	40.118.160.210	HTTP	374	GET /c.gif?rid=90dea570d8cb4251ae345978de4335
268	17:03:05.395720	40.118.160.210	192.168.7.39	HTTP	581	HTTP/1.1 200 OK (GIF89a)
327	17:03:05.749303	23.34.141.254	192.168.7.39	HTTP	468	HTTP/1.0 408 Request Time-out (text/html)
505	17:03:06.016655	192.168.7.39	128.119.245.12	HTTP	367	GET /wireshark-labs/HTTP-wireshark-file1.html

> Frame 240: 367 bytes on wire (2936 bits), 367 bytes captured (2936 bits) on interface 0

> Ethernet II, Src: AsustekC_40:79:97 (4c:ed:fb:40:79:97), Dst: Eero_99:06:f2 (60:5f:8d:99:06:f2)

> Internet Protocol Version 4, Src: 192.168.7.39, Dst: 128.119.245.12

> Transmission Control Protocol, Src Port: 61592, Dst Port: 80, Seq: 1, Ack: 1, Len: 313

> Hypertext Transfer Protocol

- GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n
 - [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n]
 - [GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n]
 - [Severity level: Chat]
 - [Group: Sequence]
 - Request Method: GET
 - Request URI: /wireshark-labs/HTTP-wireshark-file1.html
 - Request Version: HTTP/1.1
 - Accept: text/html, application/xhtml+xml, image/jxr, */*\r\n
 - Accept-Language: en-US,en;q=0.5\r\n
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko\r\n
 - Accept-Encoding: gzip, deflate\r\n
 - Host: gaia.cs.umass.edu\r\n

0030 04 00 3e a7 00 00 47 45 54 20 2f 77 69 72 65 73 ..>...GE T /wires

0040 68 61 72 6b 2d 6c 61 62 73 2f 48 54 54 50 2d 77 hark-lab s/HTTP-w

0050 69 72 65 73 68 61 72 6b 2d 66 69 6c 65 31 2e 68 ireshark -file1.h

0060 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 41 63 tml HTTP /1.1..Ac

0070 63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c cept: te xt/html,

0080 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 68 74 applica tion/xht

0090 6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 2f 6a 78 ml+xml, image/jx

00a0 72 2c 20 2a 2f 2a 0d 0a 41 63 63 65 70 74 2d 4c r, */*.. Accept-L

00b0 61 6e 67 75 61 67 65 3a 20 65 6e 2d 55 53 2c 65 anguage: en-US,e

00c0 6e 3b 71 3d 30 2e 35 0d 0a 55 73 65 72 2d 41 67 n;q=0.5..User-Ag

00d0 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 2f 35 2e 30 ent: Moz illa/5.0

00e0 20 28 57 69 6e 64 6f 77 73 20 4e 54 20 31 30 2e (Window s NT 10.

00f0 30 3b 20 57 4f 57 36 34 3b 20 54 72 69 64 65 6e 0; WOW64 ; Triden

0100 74 2f 37 2e 30 3b 20 72 76 3a 31 31 2e 30 29 20 t/7.0; r v:11.0)

0110 6c 69 6b 65 20 47 65 63 6b 6f 0d 0a 41 63 63 65 like Gec ko..Acce

0120 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 7a 69 pt-Encod ing: gzi

0130 70 2c 20 64 65 66 6c 61 74 65 0d 0a 48 6f 73 74 p, defla te..Host

0140 3a 20 67 61 69 61 2e 63 73 2e 75 6d 61 73 73 2e : gaia.c s.umass.

0150 65 64 75 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a edu..Con nection:

0160 20 4b 65 65 70 2d 41 6c 69 76 65 0d 0a 0d 0a Keep-Al ive....

*Ethernet

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
220	17:03:05.037721	192.168.7.39	54.236.194.134	HTTP	732	GET /t/v1/event?migClientId=6715&migAction=mo
229	17:03:05.124162	54.236.194.134	192.168.7.39	HTTP	727	HTTP/1.1 200 200 (GIF89a)
233	17:03:05.125341	54.236.194.134	192.168.7.39	HTTP	727	HTTP/1.1 200 200 (GIF89a)
240	17:03:05.223446	192.168.7.39	128.119.245.12	HTTP	367	GET /wireshark-labs/HTTP-wireshark-file1.html
242	17:03:05.323776	128.119.245.12	192.168.7.39	HTTP	546	HTTP/1.1 200 OK (text/html)
245	17:03:05.328735	192.168.7.39	40.118.160.210	HTTP	374	GET /c.gif?rid=90dea570d8cb4251ae345978de4335
268	17:03:05.395720	40.118.160.210	192.168.7.39	HTTP	581	HTTP/1.1 200 OK (GIF89a)
327	17:03:05.749303	23.34.141.254	192.168.7.39	HTTP	468	HTTP/1.0 408 Request Time-out (text/html)
585	17:03:06.016656	192.168.7.39	128.119.245.12	HTTP	280	GET /favicon.ico HTTP/1.1

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: Thu, 25 Apr 2019 00:03:07 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n

Last-Modified: Wed, 24 Apr 2019 05:59:01 GMT\r\n

ETag: "80-5874065ee lead"\r\n

Accept-Ranges: bytes\r\n

> Content-Length: 128\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 1/1]

[Time since request: 0.100330000 seconds]

[Request in frame: 240]

[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)

```

0020 07 27 00 50 f0 98 c4 e3 3d 0f 38 84 3a 61 50 18  .'.P....=8.:aP
0030 00 ed 7c d2 00 00 48 54 54 50 2f 31 2e 31 20 32  ..|...HT TP/1.1 2
0040 30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 54 68 75  00 OK .D ate: Thu
0050 2c 20 32 35 20 41 70 72 20 32 30 31 39 20 30 30  , 25 Apr 2019 00
0060 3a 30 33 3a 30 37 20 47 4d 54 0d 0a 53 65 72 76  :03:07 G MT .Serv
0070 65 72 3a 20 41 70 61 63 68 65 2f 32 2e 34 2e 36  er: Apac he/2.4.6
0080 20 28 43 65 6e 74 4f 53 29 20 4f 70 65 6e 53 53  (CentOS ) OpenSS
0090 4c 2f 31 2e 30 2e 32 6b 2d 66 69 70 73 20 50 48  L/1.0.2k -fips PH
00a0 50 2f 35 2e 34 2e 31 36 20 6d 6f 64 5f 70 65 72  P/5.4.16 mod_per
00b0 6c 2f 32 2e 30 2e 31 30 20 50 65 72 6c 2f 76 35  l/2.0.10 Perl/v5
00c0 2e 31 36 2e 33 0d 0a 4c 61 73 74 2d 4d 6f 64 69  .16.3 .L ast-Modi
00d0 66 69 65 64 3a 20 57 65 64 2c 20 32 34 20 41 70  fied: We d, 24 Ap
00e0 72 20 32 30 31 39 20 30 35 3a 35 39 3a 30 31 20  r 2019 0 5:59:01
00f0 47 4d 54 0d 0a 45 54 61 67 3a 20 22 38 30 2d 35  GMT .ETa g: "80-5
0100 38 37 34 30 36 35 65 65 31 65 61 64 22 0d 0a 41  874065ee lead" .A
0110 63 63 65 70 74 2d 52 61 6e 67 65 73 3a 20 62 79  ccept-Ra nges: by
0120 74 65 73 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e  tes .Con tent-Len

```

8. No

9. Yes. It returned an application/json type and returned a javascript object

10. Yes from the second get request. The following information is Wed, 24 Apr 2019 05:59:01 GMT

11. Status code: 304 Status Phrase: Not Modified. The server did not explicitly return the contents of a file. No javascript object or application/json content-type is described

Time	Source	Destination	Protocol	Length	Info
80 17:44:51.958076	192.168.7.39	192.168.7.42	HTTP	296	GET /spConn?action=getInfo&version=2.7.1 HTTP/1.1
81 17:44:51.974357	192.168.7.42	192.168.7.39	HTTP	603	HTTP/1.1 200 OK (application/json)
232 17:45:09.594919	192.168.7.39	128.119.245.12	HTTP	453	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/
234 17:45:09.691182	128.119.245.12	192.168.7.39	HTTP	294	HTTP/1.1 304 Not Modified

Frame 81: 603 bytes on wire (4824 bits), 603 bytes captured (4824 bits) on interface 0
 Ethernet II, Src: Azureway_6f:97:bd (40:99:22:6f:97:bd), Dst: AsustekC_40:79:97 (4c:ed:fb:40:79:97)
 Internet Protocol Version 4, Src: 192.168.7.42, Dst: 192.168.7.39
 Transmission Control Protocol, Src Port: 41800, Dst Port: 54045, Seq: 1, Ack: 243, Len: 549
 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
 Content-Type: application/json\r\n
 Content-Length: 477\r\n
 \r\n
 [HTTP response 1/1]
 [Time since request: 0.016281000 seconds]
 [Request in frame: 80]
 [Request URI: http://192.168.7.42:41800/spConn?action=getInfo&version=2.7.1]
 File Data: 477 bytes
 Javascript Object Notation: application/json

```

00c0 44 22 2c 22 62 72 61 6e 64 44 69 73 70 6c 61 79 0", "bran dDisplay
00d0 4e 61 6d 65 22 3a 22 73 6f 6e 79 5f 74 76 22 2c Name": "s ony_tv",
00e0 22 63 6c 69 65 6e 74 49 44 22 3a 22 39 62 31 38 "clientI D": "9b18
00f0 31 30 31 38 38 38 64 64 34 32 39 34 38 61 66 64 101888dd 42948afd
0100 30 62 38 37 39 32 31 32 32 62 65 63 22 2c 22 64 0b879212 2bec", "d
0110 65 76 69 63 65 49 44 22 3a 22 38 63 35 38 33 32 eviceID": "8c5832
0120 37 31 66 33 37 63 62 38 62 62 33 66 64 64 33 36 71f37cb8 bb3fdd36
0130 32 64 36 36 30 39 30 64 30 34 61 30 63 62 39 61 2d66090d 04a0cb9a
0140 63 66 22 2c 22 64 65 76 69 63 65 54 79 70 65 22 cf", "dev iceType"
0150 3a 22 47 41 4d 45 43 4f 4e 53 4f 4c 45 22 2c 22 : "GAMECO NSOLE", "
0160 67 72 6f 75 70 53 74 61 74 75 73 22 3a 22 4e 4f groupSta tus": "NO
0170 4e 45 22 2c 22 6d 6f 64 65 6c 44 69 73 70 6c 61 NE", "mod elDispla
0180 79 4e 61 6d 65 22 3a 22 70 73 34 22 2c 22 70 72 yName": " ps4", "pr
0190 6f 64 75 63 74 49 44 22 3a 30 2c 22 70 75 62 6c oductID": 0, "publ
01a0 69 63 4b 65 79 22 3a 22 22 2c 22 72 65 6d 6f 74 icKey": " ", "remot
01b0 65 4e 61 6d 65 22 3a 22 50 53 34 2d 32 31 38 22 eName": " PS4-218"
01c0 2c 22 72 65 73 6f 6c 76 65 72 56 65 72 73 69 6f , "resolv erVersio

```

http						
o.	Time	Source	Destination	Protocol	Length	Info
80	17:44:51.958076	192.168.7.39	192.168.7.42	HTTP	296	GET /spConn?action=getInfo&version=2.7.1 HTTP/1.1
81	17:44:51.974357	192.168.7.42	192.168.7.39	HTTP	603	HTTP/1.1 200 OK (application/json)
232	17:45:09.594919	192.168.7.39	128.119.245.12	HTTP	453	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/
234	17:45:09.691182	128.119.245.12	192.168.7.39	HTTP	294	HTTP/1.1 304 Not Modified

Frame 232: 453 bytes on wire (3624 bits), 453 bytes captured (3624 bits) on interface 0
 Ethernet II, Src: AsustekC_40:79:97 (4c:ed:fb:40:79:97), Dst: Eero_99:06:f2 (60:5f:8d:99:06:f2)
 Internet Protocol Version 4, Src: 192.168.7.39, Dst: 128.119.245.12
 Transmission Control Protocol, Src Port: 54053, Dst Port: 80, Seq: 1, Ack: 1, Len: 399
 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
 - Accept: text/html, application/xhtml+xml, image/jxr, */*\r\n
 - Accept-Language: en-US,en;q=0.5\r\n
 - User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko\r\n
 - Accept-Encoding: gzip, deflate\r\n
 - Host: gaia.cs.umass.edu\r\n
 - If-Modified-Since: Wed, 24 Apr 2019 05:59:01 GMT\r\n
 - If-None-Match: "173-5874065ee12f4"\r\n
 - Connection: Keep-Alive\r\n
 - \r\n
- [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
- [HTTP request 1/1]
- [Response in frame: 234]

```

0000  60 5f 8d 99 06 f2 4c ed fb 40 79 97 08 00 45 00  ~....L...@y...E:
0010  01 b7 65 f1 40 00 80 06 00 00 c0 a8 07 27 80 77  ..e@... ..w
0020  f5 0c d3 25 00 50 6d f6 fa ab 39 13 89 1e 50 18  ...%Pm...9...P
0030  04 00 3e fd 00 00 47 45 54 20 2f 77 69 72 65 73  ...>...GE T /wires
0040  68 61 72 6b 2d 6c 61 62 73 2f 48 54 54 50 2d 77  hark-lab s/HTTP-w
0050  69 72 65 73 68 61 72 6b 2d 66 69 6c 65 32 2e 68  ireshark -file2.h
0060  74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 41 63  tml HTTP /1.1..Ac
0070  63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c  cept: te xt/html,
0080  20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 68 74  applica tion/xht
0090  6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 2f 6a 78  ml+xml, image/jx
00a0  72 2c 20 2a 2f 2a 0d 0a 41 63 63 65 70 74 2d 4c  r, */*.. Accept-L
00b0  61 6e 67 75 61 67 65 3a 20 65 6e 2d 55 53 2c 65  anguage: en-US,e
00c0  6e 3b 71 3d 30 2e 35 0d 0a 55 73 65 72 2d 41 67  n;q=0.5 ..User-Ag
00d0  65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 2f 35 2e 30  ent: Moz illa/5.0
00e0  20 28 57 69 6e 64 6f 77 73 20 4e 54 20 31 30 2e  (Window s NT 10.
00f0  30 3b 20 57 4f 57 36 34 3b 20 54 72 69 64 65 6e  0; WOW64 ; Triden
0100  74 2f 37 2e 30 3b 20 72 76 3a 31 31 2e 30 29 20  t/7.0; r v:11.0)

```

o.	Time	Source	Destination	Protocol	Length	Info
80	17:44:51.958076	192.168.7.39	192.168.7.42	HTTP	296	GET /spConn?action=getInfo&version=2.7.1 HTTP/1.1
81	17:44:51.974357	192.168.7.42	192.168.7.39	HTTP	603	HTTP/1.1 200 OK (application/json)
232	17:45:09.594919	192.168.7.39	128.119.245.12	HTTP	453	GET /wireshark-labs/HTTP-wireshark-file2.html HTTP
234	17:45:09.691182	128.119.245.12	192.168.7.39	HTTP	294	HTTP/1.1 304 Not Modified

```

Frame 234: 294 bytes on wire (2352 bits), 294 bytes captured (2352 bits) on interface 0
Ethernet II, Src: Eero_99:06:f2 (60:5f:8d:99:06:f2), Dst: AsustekC_40:79:97 (4c:ed:fb:40:79:97)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.7.39
Transmission Control Protocol, Src Port: 80, Dst Port: 54053, Seq: 1, Ack: 400, 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: Thu, 25 Apr 2019 00:45:12 GMT\r\n
      Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n
      Connection: Keep-Alive\r\n
      Keep-Alive: timeout=5, max=100\r\n
      ETag: "173-5874065ee12f4"\r\n
      \r\n
    [HTTP response 1/1]
    [Time since request: 0.096263000 seconds]
    [Request in frame: 232]
    [Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]

```

```

000 4c ed fb 40 79 97 60 5f 8d 99 06 f2 08 00 45 00 L..@y.. .....E
010 01 18 80 40 40 00 2e 06 8e 4c 80 77 f5 0c c0 a8 ...@@... .L.w....
020 07 27 00 50 d3 25 39 13 89 1e 6d f6 fc 3a 50 18 ...P.%9. .m.:P.
030 00 ed ba 2e 00 00 48 54 54 50 2f 31 2e 31 20 33 ....HT TP/1.1 3
040 30 34 20 4e 6f 74 20 4d 6f 64 69 66 69 65 64 0d 04 Not Modified
050 0a 44 61 74 65 3a 20 54 68 75 2c 20 32 35 20 41 .Date: T hu, 25 A
060 70 72 20 32 30 31 39 20 30 30 3a 34 35 3a 31 32 pr 2019 00:45:12
070 20 47 4d 54 0d 0a 53 65 72 76 65 72 3a 20 41 70 GMT..Se rver: Ap
080 61 63 68 65 2f 32 2e 34 2e 36 20 28 43 65 6e 74 ache/2.4 .6 (Cent
090 4f 53 29 20 4f 70 65 6e 53 53 4c 2f 31 2e 30 2e OS) Open SSL/1.0.
0a0 32 6b 2d 66 69 70 73 20 50 48 50 2f 35 2e 34 2e 2k-fips PHP/5.4.
0b0 31 36 20 6d 6f 64 5f 70 65 72 6c 2f 32 2e 30 2e 16 mod_p erl/2.0.
0c0 31 30 20 50 65 72 6c 2f 76 35 2e 31 36 2e 33 0d 10 Perl/ v5.16.3
0d0 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 4b 65 65 .Connect ion: Kee
0e0 70 2d 41 6c 69 76 65 0d 0a 4b 65 65 70 2d 41 6c p-Alive .Keep-Al
0f0 69 76 65 3a 20 74 69 6d 65 6f 75 74 3d 35 2c 20 ive: tim eout=5,
100 6d 61 78 3d 31 30 30 0d 0a 45 54 61 67 3a 20 22 max=100 .ETag: "

```

12. Browser sent 2 GET messages. Packet Number 60
13. Packet Number 67 contains the status code and phrase from the response
14. Status Code: 200 Status Phrase: OK
15. 3 TCP segments

*Ethernet

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
60	17:57:26.864727	192.168.7.39	128.119.245.12	HTTP	367	GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
67	17:57:26.975025	128.119.245.12	192.168.7.39	HTTP	535	HTTP/1.1 200 OK (text/html)
73	17:57:27.103340	192.168.7.39	128.119.245.12	HTTP	280	GET /favicon.ico HTTP/1.1
77	17:57:27.201754	128.119.245.12	192.168.7.39	HTTP	539	HTTP/1.1 404 Not Found (text/html)

Frame 67: 535 bytes on wire (4280 bits), 535 bytes captured (4280 bits) on interface 0
 Ethernet II, Src: Eero_99:06:f2 (60:5f:8d:99:06:f2), Dst: AsustekC_40:79:97 (4c:ed:fb:40:79:97)
 Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.7.39
 Transmission Control Protocol, Src Port: 80, Dst Port: 54439, Seq: 4381, Ack: 314, Len: 481
 [4 Reassembled TCP Segments (4861 bytes): #64(1460), #65(1460), #66(1460), #67(481)]

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: Thu, 25 Apr 2019 00:57:29 GMT\r\n
 Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n
 Last-Modified: Wed, 24 Apr 2019 05:59:01 GMT\r\n
 ETag: "1194-5874065edc0ec"\r\n
 Accept-Ranges: bytes\r\n
 Content-Length: 4500\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 1/1]

0020 07 27 00 50 d4 a7 03 87 9f 99 08 da 14 0a 50 18 .P....P.
 0030 00 ed bf cd 00 00 68 6d 65 6e 74 73 20 69 6e 66hments inf
 0040 6c 69 63 74 65 64 2e 0a 0a 3c 2f 70 3e 3c 70 3e licted..</p><p>
 0050 3c 61 20 6e 61 6d 65 3d 22 39 22 3e 3c 73 74 72 <str
 0060 6f 6e 67 3e 3c 68 33 3e 41 6d 65 6e 64 6d 65 6e ong><h3> Amendmen
 0070 74 20 49 58 3c 2f 68 33 3e 3c 2f 73 74 72 6f 6e t IX</h3> ></stron
 0080 67 3e 3c 2f 61 3e 0a 0a 3c 70 3e 3c 2f 70 3e 3c g>..<p></p><
 0090 70 3e 54 68 65 20 65 6e 75 6d 65 72 61 74 69 6f p>The enumeration
 00a0 6e 20 69 6e 20 74 68 65 20 43 6f 6e 73 74 69 74 n in the Constit
 00b0 75 74 69 6f 6e 2c 20 6f 66 20 63 65 72 74 61 69 ution, o f certai
 00c0 6e 20 72 69 67 68 74 73 2c 20 73 68 61 6c 6c 0a n rights , shall
 00d0 6e 6f 74 20 62 65 20 63 6f 6e 73 74 72 75 65 64 not be construed
 00e0 20 74 6f 20 64 65 6e 79 20 6f 72 20 64 69 73 70 to deny or disp
 00f0 61 72 61 67 65 20 6f 74 68 65 72 73 20 72 65 74 arage ot hers ret
 0100 61 69 6e 65 64 20 62 79 20 74 68 65 20 70 65 6f ained by the peo

Frame (535 bytes) Reassembled TCP (4861 bytes)

Transmission Control Protocol (tcp) 20 bytes

|| Packets: 91 | Displayed: 4 (4.4%) | Dropped: 0 (0.0%) | Profile: Default

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
61	17:57:26.876816	128.119.245.12	192.168.7.39	TCP	66	80 → 54440 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0
62	17:57:26.876981	192.168.7.39	128.119.245.12	TCP	54	54440 → 80 [ACK] Seq=1 Ack=1 Win=262144 Len=0
63	17:57:26.964586	128.119.245.12	192.168.7.39	TCP	60	80 → 54439 [ACK] Seq=1 Ack=314 Win=30336 Len=0
64	17:57:26.975023	128.119.245.12	192.168.7.39	TCP	1514	80 → 54439 [ACK] Seq=1 Ack=314 Win=30336 Len=1460
65	17:57:26.975024	128.119.245.12	192.168.7.39	TCP	1514	80 → 54439 [ACK] Seq=1461 Ack=314 Win=30336 Len=0
66	17:57:26.975025	128.119.245.12	192.168.7.39	TCP	1514	80 → 54439 [ACK] Seq=2921 Ack=314 Win=30336 Len=0
67	17:57:26.975025	128.119.245.12	192.168.7.39	HTTP	535	HTTP/1.1 200 OK (text/html)
68	17:57:26.975108	192.168.7.39	128.119.245.12	TCP	54	54439 → 80 [ACK] Seq=314 Ack=4862 Win=262144 Len=0
69	17:57:27.002737	192.168.7.39	128.119.245.12	TCP	66	54442 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460

> Frame 64: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits) on interface 0
 > Ethernet II, Src: Eero_99:06:f2 (60:5f:8d:99:06:f2), Dst: AsustekC_40:79:97 (4c:ed:fb:40:79:97)
 > Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.7.39
 > Transmission Control Protocol, Src Port: 80, Dst Port: 54439, Seq: 1, Ack: 314, Len: 1460

0020	07 27 00 50 d4 a7 03 87 8e 7d 08 da 14 0a 50 16	..P....}....P..
0030	00 ed 4e 62 00 00 48 54 54 50 2f 31 2e 31 20 32	..Nb...HT TP/1.1 2
0040	30 30 20 4f 4b 0d 0a 44 61 74 65 3a 20 54 68 75	00 OK...D ate: Thu
0050	2c 20 32 35 20 41 70 72 20 32 30 31 39 20 30 30	, 25 Apr 2019 00
0060	3a 35 37 3a 32 39 20 47 4d 54 0d 0a 53 65 72 76	:57:29 G MT...Serv
0070	65 72 3a 20 41 70 61 63 68 65 2f 32 2e 34 2e 36	er: Apac he/2.4.6
0080	20 28 43 65 6e 74 4f 53 29 20 4f 70 65 6e 53 53	(CentOS) OpenSS
0090	4c 2f 31 2e 30 2e 32 6b 2d 66 69 70 73 20 50 48	L/1.0.2k -fips PH
00a0	50 2f 35 2e 34 2e 31 36 20 6d 6f 64 5f 70 65 72	P/5.4.16 mod_per
00b0	6c 2f 32 2e 30 2e 31 30 20 50 65 72 6c 2f 76 35	l/2.0.10 Perl/v5
00c0	2e 31 36 2e 33 0d 0a 4c 61 73 74 2d 4d 6f 64 69	.16.3...L ast-Modi
00d0	66 69 65 64 3a 20 57 65 64 2c 20 32 34 20 41 70	fied: We d, 24 Ap
00e0	72 20 32 30 31 39 20 30 35 3a 35 39 3a 30 31 20	r 2019 0 5:59:01
00f0	47 4d 54 0d 0a 45 54 61 67 3a 20 22 31 31 39 34	GMT...ETa g: "1194
0100	2d 35 38 37 34 30 36 35 65 64 63 30 65 63 22 0d	-5874065 edc0ec"
0110	0a 41 63 63 65 70 74 2d 52 61 6e 67 65 73 3a 20	Accept- Ranges:
0120	62 70 74 65 73 0d 0a 43 6f 6a 74 65 6a 74 2d 4c	bytes Content-

16. Browser sent 4 GET requests to the following IP address: 128.119.245.12
17. Serially, since the first image response came before the GET request for the second image.

*Ethernet

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http

No.	Time	Source	Destination	Protocol	Length	Info
109	18:15:01.770098	192.168.7.39	128.119.245.12	HTTP	367	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
113	18:15:01.860397	128.119.245.12	192.168.7.39	HTTP	1127	HTTP/1.1 200 OK (text/html)
115	18:15:01.883210	192.168.7.39	128.119.245.12	HTTP	427	GET /pearson.png HTTP/1.1
121	18:15:01.979663	128.119.245.12	192.168.7.39	HTTP	745	HTTP/1.1 200 OK (PNG)
123	18:15:02.038599	192.168.7.39	128.119.245.12	HTTP	441	GET /course/cover_5th_ed.jpg HTTP/1.1
214	18:15:02.354201	128.119.245.12	192.168.7.39	HTTP	632	HTTP/1.1 200 OK (JPEG JFIF image)
227	18:15:02.463576	192.168.7.39	128.119.245.12	HTTP	280	GET /favicon.ico HTTP/1.1
231	18:15:02.559853	128.119.245.12	192.168.7.39	HTTP	539	HTTP/1.1 404 Not Found (text/html)

> Frame 109: 367 bytes on wire (2936 bits), 367 bytes captured (2936 bits) on interface 0

> Ethernet II, Src: AsustekC_40:79:97 (4c:ed:fb:40:79:97), Dst: Eero_99:06:f2 (60:5f:8d:99:06:f2)

> Internet Protocol Version 4, Src: 192.168.7.39, Dst: 128.119.245.12

> Transmission Control Protocol, Src Port: 55217, Dst Port: 80, Seq: 1, Ack: 1, Len: 313

> Hypertext Transfer Protocol

> GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1\r\n

> [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1\r\n]

> [GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1\r\n]

> [Severity level: Chat]

> [Group: Sequence]

> Request Method: GET

> Request URI: /wireshark-labs/HTTP-wireshark-file4.html

> Request Version: HTTP/1.1

> Accept: text/html, application/xhtml+xml, image/jxr, */*\r\n

> Accept-Language: en-US,en;q=0.5\r\n

> User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko\r\n

> Accept-Encoding: gzip, deflate\r\n

> Host: gaia.cs.umass.edu\r\n

> Connection: Keep-Alive\r\n

> \r\n

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

> [HTTP request 1/2]

> [Response in frame: 113]

> [Next request in frame: 115]

```

0000  60 5f 8d 99 06 f2 4c ed fb 40 79 97 08 00 45 00  \_...L...@y...E
0010  01 61 66 5d 40 00 80 06 00 00 c0 a8 07 27 80 77  af]@... ..w
0020  f5 0c d7 b1 00 50 5e 10 6e b0 18 e5 a1 ed 50 18  ....P^..n....P
0030  04 00 3e a7 00 00 47 45 54 20 2f 77 69 72 65 73  ..>...GE T /wires
0040  68 61 72 6b 2d 6c 61 62 73 2f 48 54 54 50 2d 77  hark-lab s/HTTP-w
0050  69 72 65 73 68 61 72 6b 2d 66 69 6c 65 34 2e 68  ireshark -file4.h
0060  74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 41 63  tml HTTP /1.1..Ac
0070  63 65 70 74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c  cept: te xt/html,
0080  20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 68 74  applica tion/xht
0090  6d 6c 2b 78 6d 6c 2c 20 69 6d 61 67 65 2f 6a 78  ml+xml, image/jx
00a0  72 2c 20 2a 2f 2a 0d 0a 41 63 63 65 70 74 2d 4c  r, */*.. Accept-L
00b0  61 6e 67 75 61 67 65 3a 20 65 6e 2d 55 53 2c 65  anguage: en-US,e
00c0  6e 3b 71 3d 30 2e 35 0d 0a 55 73 65 72 2d 41 67  n;q=0.5..User-Ag
00d0  65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 2f 35 2e 30  ent: Moz illa/5.0
00e0  20 28 57 69 6e 64 6f 77 73 20 4e 54 20 31 30 2e  (window s NT 10.
00f0  30 3b 20 57 4f 57 36 34 3b 20 54 72 69 64 65 6e  0; WOW64 ; Triden
0100  74 2f 37 2e 30 3b 20 72 76 3a 31 31 2e 30 29 20  t/7.0; r v:11.0)

```

wireshark_Ethernet_20190424181458_a12256.pcapng

Packets: 283 · Displayed: 8 (2.8%) · Dropped: 0 (0.0%) · Profile: Default

18. Status Code: 401

Status Phrase: Unauthorized

19. Request URI

Wireshark interface showing a packet capture on an Ethernet network. The packet list displays several HTTP requests and responses. The selected packet (Frame 81) is an HTTP 401 Unauthorized response.

No.	Time	Source	Destination	Protocol	Length	Info
77	18:26:26.955045	192.168.7.39	128.119.245.12	HTTP	383	GET /wireshark-labs/protected_pages/HTTP-wire...
81	18:26:27.053996	128.119.245.12	192.168.7.39	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
121	18:26:33.294612	192.168.7.39	104.154.127.200	TCP	577	52273 → 80 [PSH, ACK] Seq=8687 Ack=440 Win=25...
155	18:26:38.164223	192.168.7.39	193.235.51.113	HTTP	338	GET /audio/24ab541748701d0b022fa68db524aa9727...
571	18:26:38.218887	193.235.51.113	192.168.7.39	HTTP	1330	HTTP/1.1 206 Partial Content
573	18:26:38.224342	192.168.7.39	193.235.51.113	HTTP	344	GET /audio/24ab541748701d0b022fa68db524aa9727...
993	18:26:38.272295	193.235.51.113	192.168.7.39	HTTP	1166	HTTP/1.1 206 Partial Content
996	18:26:38.278071	192.168.7.39	193.235.51.113	HTTP	345	GET /audio/24ab541748701d0b022fa68db524aa9727...
1422	18:26:38.338971	193.235.51.113	192.168.7.39	HTTP	1166	HTTP/1.1 206 Partial Content

Frame 81: 771 bytes on wire (6168 bits), 771 bytes captured (6168 bits) on interface 0
 Ethernet II, Src: Eero_99:06:f2 (60:5f:8d:99:06:f2), Dst: AsustekC_40:79:97 (4c:ed:fb:40:79:97)
 Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.7.39
 Transmission Control Protocol, Src Port: 80, Dst Port: 55857, Seq: 1, Ack: 330, 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: Thu, 25 Apr 2019 01:26:29 GMT\r\n
 Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n
 WWW-Authenticate: Basic realm="wireshark-students only"\r\n
 Content-Length: 381\r\n
 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: 0.098951000 seconds]
 [Request in frame: 77]
 [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>\n

3000 4c ed fb 40 79 97 60 5f 8d 99 06 f2 08 00 45 00 L..@y..E
 3010 02 f5 e0 0e 40 00 2d 06 2d a1 80 77 f5 0c c0 a8 ...@...w...
 3020 07 27 00 50 da 31 34 ee 36 24 e4 76 f0 5e 50 18 ...P.14.6\$.v.^P.
 3030 00 ed ae 8d 00 00 48 54 54 50 2f 31 2e 31 20 34HT TP/1.1 4
 3040 30 31 20 55 6e 61 75 74 68 6f 72 69 7a 65 64 0d 01 Unaut horized
 3050 0a 44 61 74 65 3a 20 54 68 75 2c 20 32 35 20 41 .Date: T hu, 25 A
 3060 70 72 20 32 30 31 39 20 30 31 3a 32 36 3a 32 39 pr 2019 01:26:29
 3070 20 47 4d 54 0d 0a 53 65 72 76 65 72 3a 20 41 70 GMT..Se rver: Ap
 3080 61 63 68 65 2f 32 2e 34 2e 36 20 28 43 65 6e 74 ache/2.4 .6 (Cent
 3090 4f 53 29 20 4f 70 65 6e 53 53 4c 2f 31 2e 30 2e OS) Open SSL/1.0.
 30a0 32 6b 2d 66 69 70 73 20 50 48 50 2f 35 2e 34 2e 2k-fips PHP/5.4.
 30b0 31 36 20 6d 6f 64 5f 70 65 72 6c 2f 32 2e 30 2e 16 mod_p erl/2.0.
 30c0 31 30 20 50 65 72 6c 2f 76 35 2e 31 36 2e 33 0d 10 Perl/ v5.16.3
 30d0 0a 57 57 57 2d 41 75 74 68 65 6e 74 69 63 61 74 .WWW-Aut henticat
 30e0 65 3a 20 42 61 73 69 63 20 72 65 61 6c 6d 3d 22 e: Basic realm=
 30f0 77 69 72 65 73 68 61 72 6b 2d 73 74 75 64 65 6e wireshar k-studen
 3100 74 73 20 6f 6e 6c 79 22 0d 0a 43 6f 6e 74 65 6e ts only" .Con ten

Wireshark interface showing a packet capture on the 'http' filter. The packet list displays several HTTP requests, with packet 155 selected. The packet details pane shows the structure of the selected packet, including Ethernet II, Internet Protocol Version 4, Transmission Control Protocol, and Hypertext Transfer Protocol. The HTTP request is a GET for a specific audio file. A red circle highlights the 'Request Method: GET' and 'Request URI' fields. A red arrow points from the 'Request URI' field to the hex dump below. A large red '19' is written over the details pane.

No.	Time	Source	Destination	Protocol	Length	Info
77	18:26:26.955045	192.168.7.39	128.119.245.12	HTTP	383	GET /wireshark-labs/protected_pages/HTTP-wire...
81	18:26:27.053996	128.119.245.12	192.168.7.39	HTTP	771	HTTP/1.1 401 Unauthorized (text/html)
121	18:26:33.294612	192.168.7.39	104.154.127.200	TCP	577	52273 → 80 [PSH, ACK] Seq=8687 Ack=440 Win=25...
155	18:26:38.164223	192.168.7.39	193.235.51.113	HTTP	338	GET /audio/24ab541748701d0b022fa68db524aa9727...
571	18:26:38.218887	193.235.51.113	192.168.7.39	HTTP	1330	HTTP/1.1 206 Partial Content
573	18:26:38.224342	192.168.7.39	193.235.51.113	HTTP	344	GET /audio/24ab541748701d0b022fa68db524aa9727...
993	18:26:38.272295	193.235.51.113	192.168.7.39	HTTP	1166	HTTP/1.1 206 Partial Content
996	18:26:38.278071	192.168.7.39	193.235.51.113	HTTP	345	GET /audio/24ab541748701d0b022fa68db524aa9727...
1422	18:26:38.338971	193.235.51.113	192.168.7.39	HTTP	1166	HTTP/1.1 206 Partial Content

Frame 155: 338 bytes on wire (2704 bits), 338 bytes captured (2704 bits) on interface 0
Ethernet II, Src: AsustekC_40:79:97 (4c:ed:fb:40:79:97), Dst: Eero_99:06:f2 (60:5f:8d:99:06:f2)
Internet Protocol Version 4, Src: 192.168.7.39, Dst: 193.235.51.113
Transmission Control Protocol, Src Port: 54071, Dst Port: 80, Seq: 1, Ack: 1, Len: 284
Hypertext Transfer Protocol
GET /audio/24ab541748701d0b022fa68db524aa9727ad1be?1556159200_kjL_DDqdFNRIoMxONm1tML-DCIV9KWUdmZEB8ZsxYM= HTTP/1.1\r\n
[Expert Info (Chat/Sequence): GET /audio/24ab541748701d0b022fa68db524aa9727ad1be?1556159200_kjL_DDqdFNRIoMxONm1tML-DCIV9KWUdmZEB8ZsxYM=]
Request Method: GET
Request URI: /audio/24ab541748701d0b022fa68db524aa9727ad1be?1556159200_kjL_DDqdFNRIoMxONm1tML-DCIV9KWUdmZEB8ZsxYM=
Request URI Path: /audio/24ab541748701d0b022fa68db524aa9727ad1be
Request URI Query: 1556159200_kjL_DDqdFNRIoMxONm1tML-DCIV9KWUdmZEB8ZsxYM=
Request Version: HTTP/1.1
Connection: keep-alive\r\n
Accept-Encoding: \r\n
Range: bytes=0-524287\r\n
User-Agent: Spotify/110400197 Win32/0 (PC desktop)\r\n
Host: audio-sp-sjc.pscdn.co\r\n
Keep-Alive: 900\r\n
\r\n
[Full request URI: http://audio-sp-sjc.pscdn.co/audio/24ab541748701d0b022fa68db524aa9727ad1be?1556159200_kjL_DDqdFNRIoMxONm1tML-DCIV9KWUdmZEB8ZsxYM=]
[HTTP request 1/8]
[Response in frame: 571]
[Next request in frame: 573]

Hex dump (packet 155):

```
0030  38 fc be 62 00 00 47 45 54 20 2f 61 75 64 69 6f 80 b GE T /audio
0040  2f 32 34 61 62 35 34 31 37 34 38 37 30 31 64 30 /24ab541 748701d0
0050  62 30 32 32 66 61 36 38 64 62 35 32 34 61 61 39 b022fa68 db524aa9
0060  37 32 37 37 61 64 31 62 65 3f 31 35 35 36 31 35 7277ad1b e?155615
0070  39 32 30 30 5f 6b 6a 4c 5f 44 44 71 64 46 4e 52 9200 kjL_DDqdFNRI
0080  69 44 6d 58 4f 4e 6d 31 6c 74 4d 4c 2d 44 43 49 iDMxONm1 ltML-DCI
0090  56 39 4b 57 55 64 6d 5a 45 42 38 5a 73 78 59 4d V9KWUdmZ EB8ZsxYM
00a0  3d 20 48 54 54 50 2f 31 2e 31 0d 0a 43 6f 6e 6e = HTTP/1 .1 Conn
00b0  65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 ection: keep-ali
00c0  76 65 0d 0a 41 63 63 65 70 74 2d 45 6e 63 6f 64 ve Acce pt-Encod
00d0  69 6e 67 3a 20 0d 0a 52 61 6e 67 65 3a 20 62 79 ing: .R range: by
00e0  74 65 73 3d 30 2d 35 32 34 32 38 37 0d 0a 55 73 tes=0-52 4287 Us
00f0  65 72 2d 41 67 65 6e 74 3a 20 53 70 6f 74 69 66 er-Agent : Spotif
0100  79 2f 31 31 30 34 30 30 31 39 37 20 57 69 6e 33 y/110400 197 Win3
0110  32 2f 30 20 28 50 43 20 64 65 73 6b 74 6f 70 29 2/0 (PC desktop)
0120  0d 0a 48 6f 73 74 3a 20 61 75 64 69 6f 2d 73 70 .Host: audio-sp
0130  2d 73 6a 63 2e 70 73 63 64 6e 2e 63 6f 0d 0a 4b -sjc.psc dn.co K
```