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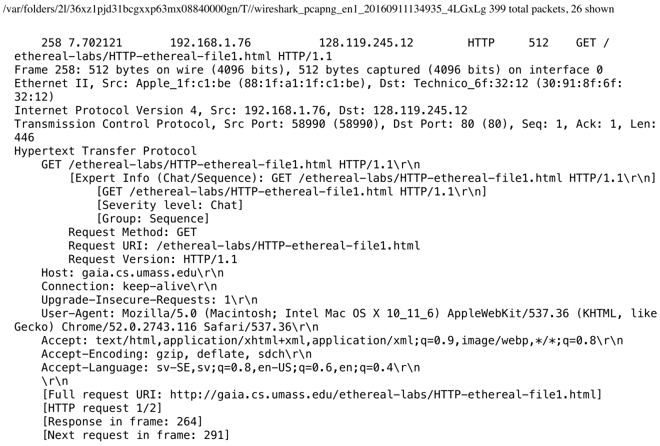
Lab 1

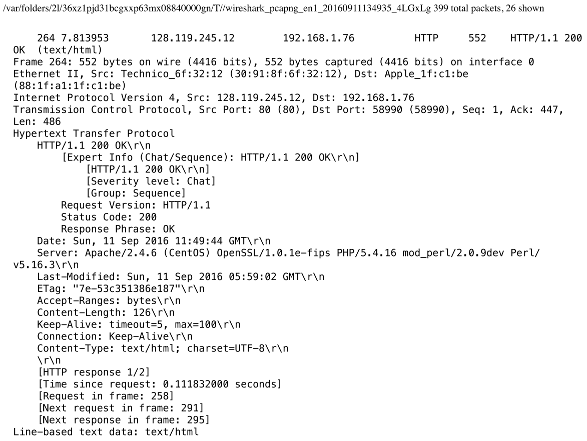
1. The Basic HTTP GET/response interaction



/var/folders/2l/36xz1pjd31bcgxxp63mx08840000gn/T//wireshark_pcapng_en1_20160911134935_4LGxLg 399 total packets, 26 shown

```
    258 7.702121       192.168.1.76          128.119.245.12        HTTP     512    GET /
ethereal-labs/HTTP-ethereal-file1.html HTTP/1.1
Frame 258: 512 bytes on wire (4096 bits), 512 bytes captured (4096 bits) on interface 0
Ethernet II, Src: Apple_1f:c1:be (88:1f:a1:1f:c1:be), Dst: Technico_6f:32:12 (30:91:8f:6f:
32:12)
Internet Protocol Version 4, Src: 192.168.1.76, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 58990 (58990), Dst Port: 80 (80), Seq: 1, Ack: 1, Len:
446
Hypertext Transfer Protocol
    GET /ethereal-labs/HTTP-ethereal-file1.html HTTP/1.1\r\n
        [Expert Info (Chat/Sequence): GET /ethereal-labs/HTTP-ethereal-file1.html HTTP/1.1\r\n]
            [GET /ethereal-labs/HTTP-ethereal-file1.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Request Method: GET
        Request URI: /ethereal-labs/HTTP-ethereal-file1.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 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/52.0.2743.116 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
    Accept-Encoding: gzip, deflate, sdch\r\n
    Accept-Language: sv-SE,sv;q=0.8,en-US;q=0.6,en;q=0.4\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/ethereal-labs/HTTP-ethereal-file1.html]
    [HTTP request 1/2]
    [Response in frame: 264]
    [Next request in frame: 291]
```

Figure 1, GET



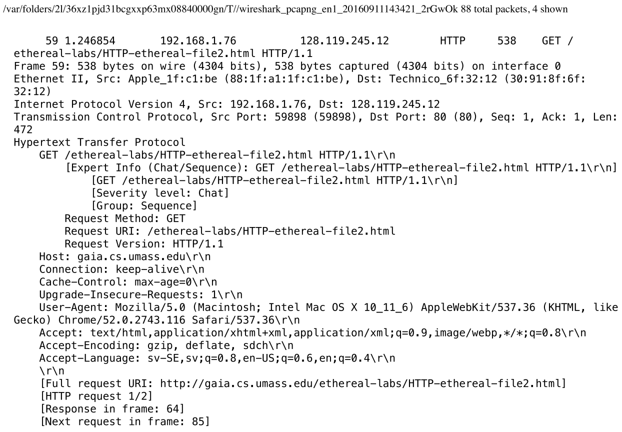
/var/folders/2l/36xz1pjd31bcgxxp63mx08840000gn/T//wireshark_pcapng_en1_20160911134935_4LGxLg 399 total packets, 26 shown

```
    264 7.813953       128.119.245.12        192.168.1.76          HTTP     552    HTTP/1.1 200
OK  (text/html)
Frame 264: 552 bytes on wire (4416 bits), 552 bytes captured (4416 bits) on interface 0
Ethernet II, Src: Technico_6f:32:12 (30:91:8f:6f:32:12), Dst: Apple_1f:c1:be
(88:1f:a1:1f:c1:be)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.76
Transmission Control Protocol, Src Port: 80 (80), Dst Port: 58990 (58990), Seq: 1, Ack: 447,
Len: 486
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]
        Request Version: HTTP/1.1
        Status Code: 200
        Response Phrase: OK
    Date: Sun, 11 Sep 2016 11:49:44 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/5.4.16 mod_perl/2.0.9dev Perl/
v5.16.3\r\n
    Last-Modified: Sun, 11 Sep 2016 05:59:02 GMT\r\n
    ETag: "7e-53c351386e187"\r\n
    Accept-Ranges: bytes\r\n
    Content-Length: 126\r\n
    Keep-Alive: timeout=5, max=100\r\n
    Connection: Keep-Alive\r\n
    Content-Type: text/html; charset=UTF-8\r\n
    \r\n
    [HTTP response 1/2]
    [Time since request: 0.111832000 seconds]
    [Request in frame: 258]
    [Next request in frame: 291]
    [Next response in frame: 295]
Line-based text data: text/html
```

Figure 2, Response

1. By looking at *Fig. 1*, one can see that my browser (Google Chrome) is running HTTP version 1.1. The server is running HTTP version 1.1.
2. As seen in *Fig.1*, my browser will accept sv-SE (Swedish) as well as en-US (American English).
3. My IP is: 192.168.1.76, and the servers adress is 128.119.245.12
4. The status code returned from the server is 200 and can be seen in *Fig.2*, which corresponds to a successful HTTP request.
5. Last modified: Sun, 11 Sep 2016 05:59:02 GMT can be seen in *Fig. 2*.
6. The content-length, seen in *Fig. 2,* tells us that the content is 126 bytes long.

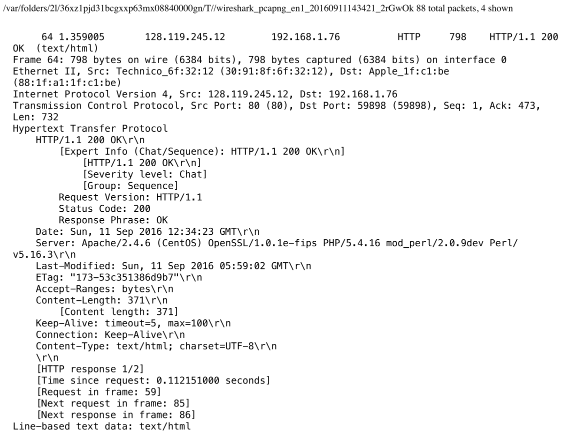
2. The HTTP CONDITIONAL GET/response interaction



/var/folders/2l/36xz1pjd31bcgxxp63mx08840000gn/T//wireshark_pcapng_en1_20160911143421_2rGwOk 88 total packets, 4 shown

```
     59 1.246854       192.168.1.76          128.119.245.12        HTTP     538    GET /
ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1
Frame 59: 538 bytes on wire (4304 bits), 538 bytes captured (4304 bits) on interface 0
Ethernet II, Src: Apple_1f:c1:be (88:1f:a1:1f:c1:be), Dst: Technico_6f:32:12 (30:91:8f:6f:
32:12)
Internet Protocol Version 4, Src: 192.168.1.76, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 59898 (59898), Dst Port: 80 (80), Seq: 1, Ack: 1, Len:
472
Hypertext Transfer Protocol
    GET /ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1\r\n
        [Expert Info (Chat/Sequence): GET /ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1\r\n]
            [GET /ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Request Method: GET
        Request URI: /ethereal-labs/HTTP-ethereal-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 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/52.0.2743.116 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
    Accept-Encoding: gzip, deflate, sdch\r\n
    Accept-Language: sv-SE,sv;q=0.8,en-US;q=0.6,en;q=0.4\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/ethereal-labs/HTTP-ethereal-file2.html]
    [HTTP request 1/2]
    [Response in frame: 64]
    [Next request in frame: 85]
```

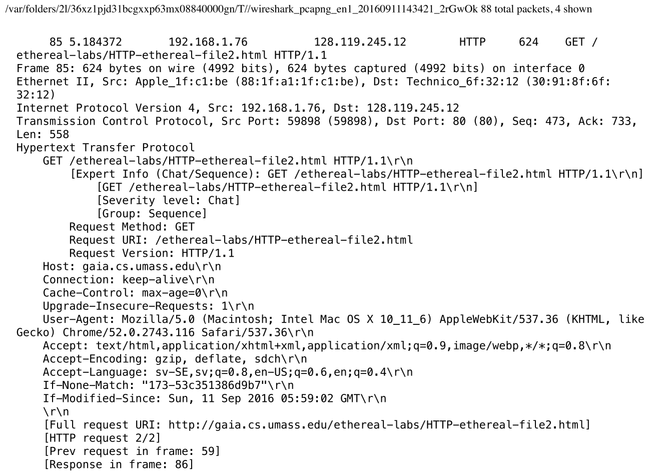
Figure 3, First GET request



/var/folders/2l/36xz1pjd31bcgxxp63mx08840000gn/T//wireshark_pcapng_en1_20160911143421_2rGwOk 88 total packets, 4 shown

```
     64 1.359005       128.119.245.12        192.168.1.76          HTTP     798    HTTP/1.1 200
OK  (text/html)
Frame 64: 798 bytes on wire (6384 bits), 798 bytes captured (6384 bits) on interface 0
Ethernet II, Src: Technico_6f:32:12 (30:91:8f:6f:32:12), Dst: Apple_1f:c1:be
(88:1f:a1:1f:c1:be)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.1.76
Transmission Control Protocol, Src Port: 80 (80), Dst Port: 59898 (59898), Seq: 1, Ack: 473,
Len: 732
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]
        Request Version: HTTP/1.1
        Status Code: 200
        Response Phrase: OK
    Date: Sun, 11 Sep 2016 12:34:23 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/5.4.16 mod_perl/2.0.9dev Perl/
v5.16.3\r\n
    Last-Modified: Sun, 11 Sep 2016 05:59:02 GMT\r\n
    ETag: "173-53c351386d9b7"\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 1/2]
    [Time since request: 0.112151000 seconds]
    [Request in frame: 59]
    [Next request in frame: 85]
    [Next response in frame: 86]
Line-based text data: text/html
```

Figure 4, First Response from server



/var/folders/2l/36xz1pjd31bcgxxp63mx08840000gn/T//wireshark_pcapng_en1_20160911143421_2rGwOk 88 total packets, 4 shown

```
     85 5.184372       192.168.1.76          128.119.245.12        HTTP     624    GET /
ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1
Frame 85: 624 bytes on wire (4992 bits), 624 bytes captured (4992 bits) on interface 0
Ethernet II, Src: Apple_1f:c1:be (88:1f:a1:1f:c1:be), Dst: Technico_6f:32:12 (30:91:8f:6f:
32:12)
Internet Protocol Version 4, Src: 192.168.1.76, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 59898 (59898), Dst Port: 80 (80), Seq: 473, Ack: 733,
Len: 558
Hypertext Transfer Protocol
    GET /ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1\r\n
        [Expert Info (Chat/Sequence): GET /ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1\r\n]
            [GET /ethereal-labs/HTTP-ethereal-file2.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Request Method: GET
        Request URI: /ethereal-labs/HTTP-ethereal-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 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/52.0.2743.116 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
    Accept-Encoding: gzip, deflate, sdch\r\n
    Accept-Language: sv-SE,sv;q=0.8,en-US;q=0.6,en;q=0.4\r\n
    If-None-Match: "173-53c351386d9b7"\r\n
    If-Modified-Since: Sun, 11 Sep 2016 05:59:02 GMT\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/ethereal-labs/HTTP-ethereal-file2.html]
    [HTTP request 2/2]
    [Prev request in frame: 59]
    [Response in frame: 86]
```

Figure 5, Second GET request

Figure 6, Second Response from server

7. By looking at *Fig. 3*, one can se that there is no such line.

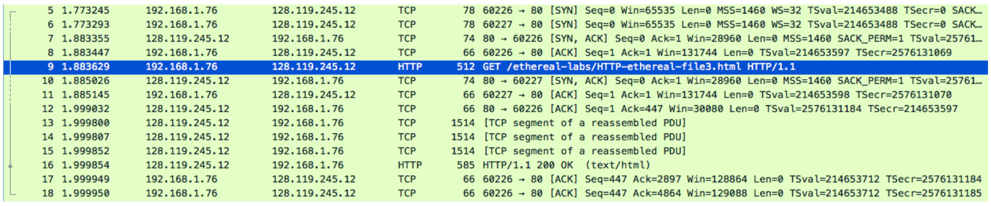
8. Yes, by looking at *Fig. 4*, the content-length is 371 bytes.

9. In *Fig. 5,* If-Modified-Since: Sun, 11 Sep 2016 05:59:02 GMT.

10. The returned code is 304, Not modified. The server did not return any file since it was already cached.

3. Retrieving Long Documents

11. 1 GET Request is sent, highlighted in *Fig. 7.*



```
  5 1.773245   192.168.1.76     128.119.245.12   TCP     78 60226 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=32 TSval=214653488 TSecr=0 SACK…
  6 1.773293   192.168.1.76     128.119.245.12   TCP     78 60227 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=32 TSval=214653488 TSecr=0 SACK…
  7 1.883355   128.119.245.12   192.168.1.76     TCP     74 80 → 60226 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=25761…
  8 1.883447   192.168.1.76     128.119.245.12   TCP     66 60226 → 80 [ACK] Seq=1 Ack=1 Win=131744 Len=0 TSval=214653597 TSecr=2576131069
  9 1.883629   192.168.1.76     128.119.245.12   HTTP   512 GET /ethereal-labs/HTTP-ethereal-file3.html HTTP/1.1
 10 1.885026   128.119.245.12   192.168.1.76     TCP     74 80 → 60227 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=25761…
 11 1.885145   192.168.1.76     128.119.245.12   TCP     66 60227 → 80 [ACK] Seq=1 Ack=1 Win=131744 Len=0 TSval=214653598 TSecr=2576131070
 12 1.999032   128.119.245.12   192.168.1.76     TCP     66 80 → 60226 [ACK] Seq=1 Ack=447 Win=30080 Len=0 TSval=2576131184 TSecr=214653597
 13 1.999800   128.119.245.12   192.168.1.76     TCP   1514 [TCP segment of a reassembled PDU]
 14 1.999807   128.119.245.12   192.168.1.76     TCP   1514 [TCP segment of a reassembled PDU]
 15 1.999852   128.119.245.12   192.168.1.76     TCP   1514 [TCP segment of a reassembled PDU]
 16 1.999854   128.119.245.12   192.168.1.76     HTTP   585 HTTP/1.1 200 OK  (text/html)
 17 1.999949   192.168.1.76     128.119.245.12   TCP     66 60226 → 80 [ACK] Seq=447 Ack=2897 Win=128864 Len=0 TSval=214653712 TSecr=2576131184
 18 1.999950   192.168.1.76     128.119.245.12   TCP     66 60226 → 80 [ACK] Seq=447 Ack=4864 Win=129088 Len=0 TSval=214653712 TSecr=2576131185
```

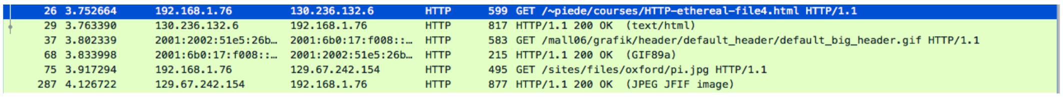
Figure 7, The request from the Long document

12. 3 TCP segments were needed.

13. The status code is 200 - OK

4. HTML Documents with Embedded Objects

14. 3 GET requests were sent, as seen in *Fig. 8*. The requests were sent to http://webstaff.itn.liu.se/~piede/courses/HTTP-ethereal-file4.html, http://www.liu.se/mall06/grafik/header/default_header/default_big_header.gif and http://www.ox.ac.uk/sites/files/oxford/pi.jpg



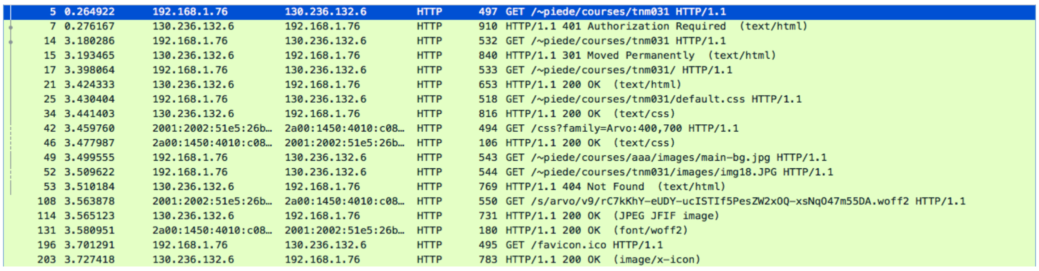
```
 26 3.752664   192.168.1.76        130.236.132.6       HTTP   599 GET /~piede/courses/HTTP-ethereal-file4.html HTTP/1.1
 29 3.763390   130.236.132.6       192.168.1.76        HTTP   817 HTTP/1.1 200 OK  (text/html)
 37 3.802339   2001:2002:51e5:26b…  2001:6b0:17:f008::…  HTTP   583 GET /mall06/grafik/header/default_header/default_big_header.gif HTTP/1.1
 68 3.833998   2001:6b0:17:f008::…  2001:2002:51e5:26b…  HTTP   215 HTTP/1.1 200 OK  (GIF89a)
 75 3.917294   192.168.1.76        129.67.242.154      HTTP   495 GET /sites/files/oxford/pi.jpg HTTP/1.1
287 4.126722   129.67.242.154      192.168.1.76        HTTP   877 HTTP/1.1 200 OK  (JPEG JFIF image)
```

Figure 8, The request to the embedded objects

15. Since their time stamps differ, they were downloaded serially.

5. HTTP Authentication

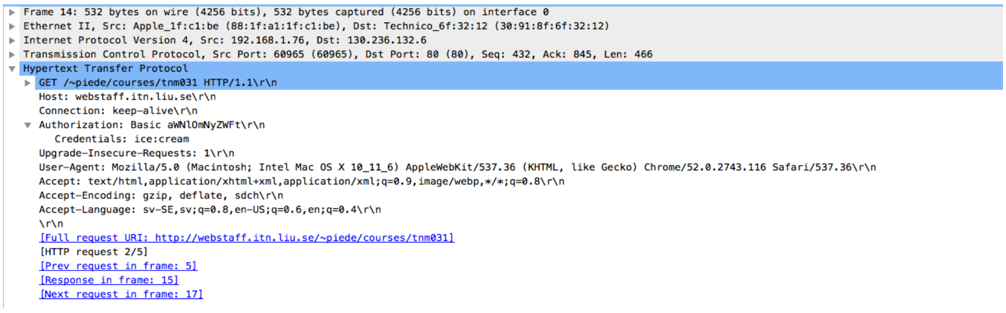
16. The initial server response is 401 - Authorization Required as seen in *Fig. 9*



```
    5 0.264922    192.168.1.76       130.236.132.6      HTTP     497 GET /~piede/courses/tnm031 HTTP/1.1
    7 0.276167    130.236.132.6      192.168.1.76       HTTP     910 HTTP/1.1 401 Authorization Required  (text/html)
   14 3.180286    192.168.1.76       130.236.132.6      HTTP     532 GET /~piede/courses/tnm031 HTTP/1.1
   15 3.193465    130.236.132.6      192.168.1.76       HTTP     840 HTTP/1.1 301 Moved Permanently  (text/html)
   17 3.398064    192.168.1.76       130.236.132.6      HTTP     533 GET /~piede/courses/tnm031/ HTTP/1.1
   21 3.424333    130.236.132.6      192.168.1.76       HTTP     653 HTTP/1.1 200 OK  (text/html)
   25 3.430404    192.168.1.76       130.236.132.6      HTTP     518 GET /~piede/courses/tnm031/default.css HTTP/1.1
   34 3.441403    130.236.132.6      192.168.1.76       HTTP     816 HTTP/1.1 200 OK  (text/css)
   42 3.459760    2001:2002:51e5:26b… 2a00:1450:4010:c08… HTTP    494 GET /css?family=Arvo:400,700 HTTP/1.1
   46 3.477987    2a00:1450:4010:c08… 2001:2002:51e5:26b… HTTP    106 HTTP/1.1 200 OK  (text/css)
   49 3.499555    192.168.1.76       130.236.132.6      HTTP     543 GET /~piede/courses/aaa/images/main-bg.jpg HTTP/1.1
   52 3.509622    192.168.1.76       130.236.132.6      HTTP     544 GET /~piede/courses/tnm031/images/img18.JPG HTTP/1.1
   53 3.510184    130.236.132.6      192.168.1.76       HTTP     769 HTTP/1.1 404 Not Found  (text/html)
  108 3.563878    2001:2002:51e5:26b… 2a00:1450:4010:c08… HTTP    550 GET /s/arvo/v9/rC7kKhY-eUDY-ucISTIf5PesZW2x0Q-xsNq047m55DA.woff2 HTTP/1.1
  114 3.565123    130.236.132.6      192.168.1.76       HTTP     731 HTTP/1.1 200 OK  (JPEG JFIF image)
  131 3.580951    2a00:1450:4010:c08… 2001:2002:51e5:26b… HTTP    180 HTTP/1.1 200 OK  (font/woff2)
  196 3.701291    192.168.1.76       130.236.132.6      HTTP     495 GET /favicon.ico HTTP/1.1
  203 3.727418    130.236.132.6      192.168.1.76       HTTP     783 HTTP/1.1 200 OK  (image/x-icon)
```

Figure 9, The GET request and responses from the TNM031 course page

17. The second GET message includes the Credentials ice:cream, the username and password.

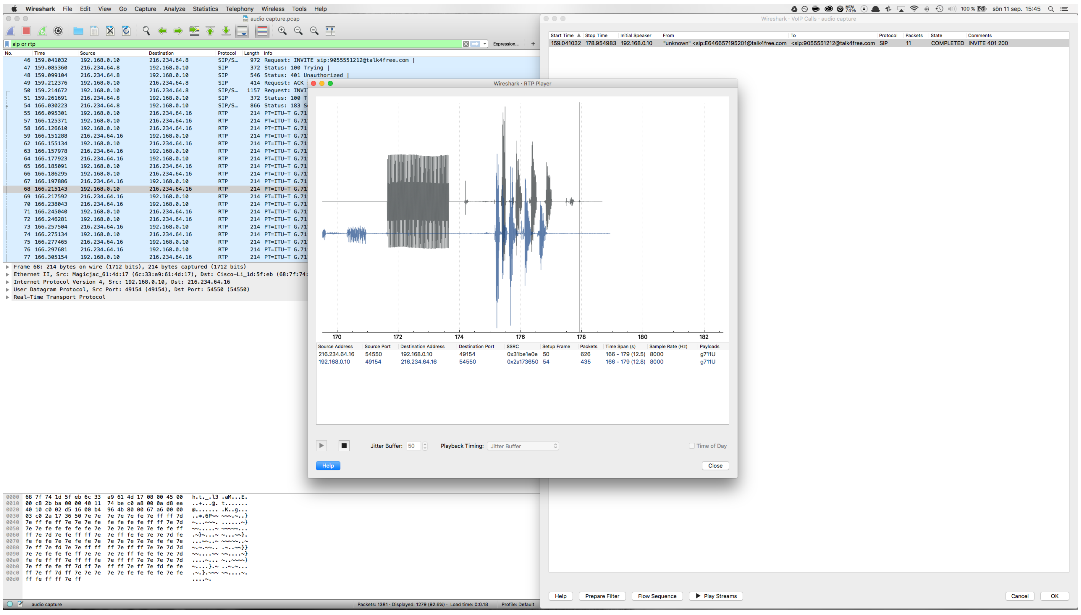


```
▶ Frame 14: 532 bytes on wire (4256 bits), 532 bytes captured (4256 bits) on interface 0
▶ Ethernet II, Src: Apple_1f:c1:be (88:1f:a1:1f:c1:be), Dst: Technico_6f:32:12 (30:91:8f:6f:32:12)
▶ Internet Protocol Version 4, Src: 192.168.1.76, Dst: 130.236.132.6
▶ Transmission Control Protocol, Src Port: 60965 (60965), Dst Port: 80 (80), Seq: 432, Ack: 845, Len: 466
▼ Hypertext Transfer Protocol
  ▶ GET /~piede/courses/tnm031 HTTP/1.1\r\n
    Host: webstaff.itn.liu.se\r\n
    Connection: keep-alive\r\n
  ▼ Authorization: Basic aWNlOmNyZWFt\r\n
      Credentials: ice:cream
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/52.0.2743.116 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8\r\n
    Accept-Encoding: gzip, deflate, sdch\r\n
    Accept-Language: sv-SE,sv;q=0.8,en-US;q=0.6,en;q=0.4\r\n
    \r\n
    [Full request URI: http://webstaff.itn.liu.se/~piede/courses/tnm031]
    [HTTP request 2/5]
    [Prev request in frame: 5]
    [Response in frame: 15]
    [Next request in frame: 17]
```

Figure 10, The second GET request contains the credentials to login

6. Capturing VoIP

18. The captured audio says: Test, 1, 2, 3



sip or rtp

```
No.   Time        Source          Destination     Protocol Length Info
   46 159.041032  192.168.0.10    216.234.64.8    SIP/S…    972 Request: INVITE sip:9055551212@talk4free.com |
   47 159.085360  216.234.64.8    192.168.0.10    SIP       372 Status: 100 Trying |
   48 159.099104  216.234.64.8    192.168.0.10    SIP       546 Status: 401 Unauthorized |
   49 159.212376  192.168.0.10    216.234.64.8    SIP       414 Request: ACK
   50 159.214672  192.168.0.10    216.234.64.8    SIP/S…   1157 Request: INVI
   51 159.261691  216.234.64.8    192.168.0.10    SIP       372 Status: 100 T
   54 166.030223  216.234.64.8    192.168.0.10    SIP/S…    866 Status: 183 S
   55 166.095301  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   57 166.125371  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   58 166.126610  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   59 166.151288  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   62 166.155134  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   63 166.157978  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   64 166.177923  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   65 166.185091  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   66 166.186295  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   67 166.197886  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   68 166.215143  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   69 166.217592  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   70 166.238043  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   71 166.245040  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   72 166.246281  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   73 166.257504  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   74 166.275134  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
   75 166.277465  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   76 166.297681  216.234.64.16   192.168.0.10    RTP       214 PT=ITU-T G.71
   77 166.305154  192.168.0.10    216.234.64.16   RTP       214 PT=ITU-T G.71
▶ Frame 68: 214 bytes on wire (1712 bits), 214 bytes captured (1712 bits)
▶ Ethernet II, Src: Magicjac_61:4d:17 (6c:33:a9:61:4d:17), Dst: Cisco-Li_1d:5f:eb (68:7f:74:
▶ Internet Protocol Version 4, Src: 192.168.0.10, Dst: 216.234.64.16
▶ User Datagram Protocol, Src Port: 49154 (49154), Dst Port: 54550 (54550)
▶ Real-Time Transport Protocol
```

```
0000  68 7f 74 1d 5f eb 6c 33  a9 61 4d 17 08 00 45 00   h.t._.l3 .aM...E.
0010  00 c8 2b ba 00 00 40 11  74 be c0 a8 00 0a d8 ea   ..+...@. t.......
0020  40 10 c0 02 d5 16 00 b4  96 4b 80 00 67 a6 00 00   @....... .K..g...
0030  03 c0 2a 17 36 50 7e 7e  7e 7e 7e fe 7e ff ff 7d   ..*.6P~~ ~~~.~..}
0040  7e ff fe ff 7e 7e 7e fe  fe fe fe fe ff ff 7e 7d   ~...~~~. ......~}
0050  7e 7e fe fe fe fe fe 7e  7e 7e 7e 7e 7e fe fe ff   ~~.....~ ~~~~~...
0060  ff 7e 7d 7e fe ff ff 7e  7e ff fe fe 7e 7e 7d fe   .~}~...~ ~...~~}.
0070  fe fe fe 7e 7e fe fe 7e  7e 7e 7e 7e 7e fe fe 7e   ...~~..~ ~~~~~..~
0080  7e ff 7e fd 7e 7e ff ff  ff 7e ff ff 7e 7e 7d 7d   ~.~.~~.. .~..~~}}
0090  7e 7e fe fe fe ff 7e 7e  7e 7e ff fe fe fe 7e 7d   ~~....~~ ~~....~}
00a0  fe fe ff ff 7e ff ff fe  7e ff ff 7e 7e 7e 7e 7d   ....~... ~..~~~~}
00b0  7e ff fe fe ff 7d ff 7e  ff ff 7e ff 7e fd fe fe   ~....}.~ ..~.~...
00c0  ff 7e ff 7d ff 7e 7e 7e  7e 7e fe fe fe fe 7e fe   .~.}.~~~ ~~....~.
00d0  ff fe ff ff 7e ff                                  ....~.
```

audio capture Packets: 1381 · Displayed: 1279 (92.6%) · Load time: 0:0.18 Profile: Default

Start Time ▲	Stop Time	Initial Speaker	From	To	Protocol	Packets	State	Comments
159.041032	178.954983	192.168.0.10	"unknown" <sip:E646657195201@talk4free.com	<sip:9055551212@talk4free.com	SIP	11	COMPLETED	INVITE 401 200

Source Address	Source Port	Destination Address	Destination Port	SSRC	Setup Frame	Packets	Time Span (s)	Sample Rate (Hz)	Payloads
216.234.64.16	54550	192.168.0.10	49154	0x31be1e0e	50	626	166 - 179 (12.5)	8000	g711U
192.168.0.10	49154	216.234.64.16	54550	0x2a173650	54	435	166 - 179 (12.8)	8000	g711U

Jitter Buffer: 50 Playback Timing: Jitter Buffer