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Wireshark HTTP

Part 1.

GET Request:

cs.uci.edu gaia.cs.umass.edu   HTTP   431   GET /wireshark-labs/
HTTP-wireshark-file1.html HTTP/1.1
Frame 98: 431 bytes on wire (3448 bits), 431 bytes captured (3448 bits) on interface 0
Ethernet II, Src: dhcp-051237.ics.uci.edu (00:00:00:03:19:12), Dst: 314-vl101.ucinet.uci.edu
(00:19:07:f1:c0:00)
Internet Protocol Version 4, Src: dhcp-051237.ics.uci.edu (128.195.51.237), Dst: gaia.cs.umass.edu
(128.119.245.12)
Transmission Control Protocol, Src Port: 51506 (51506), Dst Port: http (80), Seq: 1, Ack: 1, Len: 365
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]
     Request Method: GET
     Request URI: /wireshark-labs/HTTP-wireshark-file1.html
     Request Version: HTTP/1.1
   Host: gaia.cs.umass.edu\r\n
   User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:56.0) Gecko/20100101 Firefox/56.0\r\n
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
   Accept-Language: en-US,en;q=0.5\r\n
   Accept-Encoding: gzip, deflate\r\n
   Connection: keep-alive\r\n
   Upgrade-Insecure-Requests: 1\r\n
   \r\n
   [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]
   [HTTP request 1/1]
   [Response in frame: 100]

HTTP Response message:

   100 40.621101716   gaia.cs.umass.edu   dhcp-051237.ics.uci.edu HTTP   552   HTTP/1.1 200
OK (text/html)
Frame 100: 552 bytes on wire (4416 bits), 552 bytes captured (4416 bits) on interface 0
Ethernet II, Src: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00), Dst: dhcp-051237.ics.uci.edu
(00:00:00:03:19:12)
Internet Protocol Version 4, Src: gaia.cs.umass.edu (128.119.245.12), Dst: dhcp-051237.ics.uci.edu
(128.195.51.237)
Transmission Control Protocol, Src Port: http (80), Dst Port: 51506 (51506), Seq: 1, Ack: 366, Len: 486
Hypertext Transfer Protocol
   HTTP/1.1 200 OK\r\n
     [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
     Request Version: HTTP/1.1
     Status Code: 200
     Response Phrase: OK

Date: Wed, 25 Oct 2017 18:27:01 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, 25 Oct 2017 05:59:01 GMT\r\n
ETag: "80-55c58c09a20eb"\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: 0.077937437 seconds]
[Request in frame: 98]
File Data: 128 bytes
Line-based text data: text/htmli

1. My browser is running HTTP version 1.1, based on the parts of the GET message highlighted in red. The server is also running HTTP version 1.1, based on the parts of the response message highlighted in red.

2. From the green part of the GET request, my browser indicates that it can accept US English and English.

3. From the blue parts of the GET request and response message, it appears that the IP of my computer is 128.195.51.237. From the magenta parts of the GET request and response message, the IP address of the gaia.cs.umass.edu server is 128.119.245.12.

4. From the orange parts of the response message, the status code returned by the server is 200.

5. From the yellow part of the response message, the html file was last modified on Wed, 25 Oct 2017 05:59:01 GMT.

6. From the purple parts of the response message, 128 bytes of data are being returned to my browser.

7. No, there are no headers that are not displayed.

Part 2.
1st GET:
/tmp/wireshark_enx000000031912_20171025125516_vnFHzE.pcapng 773 total packets, 8 shown
    346 7.475872477   dhcp-051237.ics.uci.edu gaia.cs.umass.edu   HTTP   431   GET /wireshark-labs/
HTTP-wireshark-file4.html HTTP/1.1
Frame 346: 431 bytes on wire (3448 bits), 431 bytes captured (3448 bits) on interface 0
Ethernet II, Src: dhcp-051237.ics.uci.edu (00:00:00:03:19:12), Dst: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00)
Internet Protocol Version 4, Src: dhcp-051237.ics.uci.edu (128.195.51.237), Dst: gaia.cs.umass.edu (128.119.245.12)
Transmission Control Protocol, Src Port: 52202 (52202), Dst Port: http (80), Seq: 1, Ack: 1, Len: 365

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]
    Request Method: GET
    Request URI: /wireshark-labs/HTTP-wireshark-file4.html
    Request Version: HTTP/1.1
  Host: gaia.cs.umass.edu\r\n
  User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:56.0) Gecko/20100101 Firefox/56.0\r\n
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
  Accept-Language: en-US,en;q=0.5\r\n
  Accept-Encoding: gzip, deflate\r\n
  Connection: keep-alive\r\n
  Upgrade-Insecure-Requests: 1\r\n
  \r\n
  [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html]
  [HTTP request 1/2]
  [Response in frame: 349]
  [Next request in frame: 351]

1st Response:

  349 7.550108951   gaia.cs.umass.edu   dhcp-051237.ics.uci.edu HTTP   1139   HTTP/1.1 200
OK (text/html)
Frame 349: 1139 bytes on wire (9112 bits), 1139 bytes captured (9112 bits) on interface 0
Ethernet II, Src: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00), Dst: dhcp-051237.ics.uci.edu
(00:00:00:03:19:12)
Internet Protocol Version 4, Src: gaia.cs.umass.edu (128.119.245.12), Dst: dhcp-051237.ics.uci.edu
(128.195.51.237)
Transmission Control Protocol, Src Port: http (80), Dst Port: 52202 (52202), Seq: 1, Ack: 366, Len:
1073
Hypertext Transfer Protocol
  HTTP/1.1 200 OK\r\n
    [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
    Request Version: HTTP/1.1
    Status Code: 200
    Response Phrase: OK
  Date: Wed, 25 Oct 2017 19:55:24 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, 25 Oct 2017 05:59:01 GMT\r\n
  ETag: "2ca-55c58c09a1533"\r\n
  Accept-Ranges: bytes\r\n
  Content-Length: 714\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: 0.074236474 seconds]
  [Request in frame: 346]
  [Next request in frame: 351]
  [Next response in frame: 356]

File Data: 714 bytes
Line-based text data: text/html
   <html>\n
   <head>\n
   <title>Lab2-4 file: Embedded URLs</title>\n
   <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">\n
   </head>\n
   \n
   <body bgcolor="#FFFFFF" text="#000000">\n
   \n
   <p>\n
   <img src="http://gaia.cs.umass.edu/pearson.png" WIDTH="70" HEIGHT="41" > </p>\n
   <p>This little HTML file is being served by gaia.cs.umass.edu. \n
   It contains two embedded images.
 The image above, also served from the \n
   gaia.cs.umass.edu web site, is the logo of our publisher, Pearson.
\n
   The image of our 5th edition book cover below is stored at, and served from, the www server
caite.cs.umass.edu:</p>\n
   <p align="left"><img src="http://manic.cs.umass.edu/~kurose/cover_5th_ed.jpg" width="168"
height="220"></p>\n
   </body>\n
   </html>\n/tmp/wireshark_enx000000031912_20171025125516_vnFHzE.pcapng 773 total packets, 8
shown

2nd GET:

   351 7.607734652   dhcp-051237.ics.uci.edu gaia.cs.umass.edu   HTTP   388   GET /pearson.png
HTTP/1.1
Frame 351: 388 bytes on wire (3104 bits), 388 bytes captured (3104 bits) on interface 0
Ethernet II, Src: dhcp-051237.ics.uci.edu (00:00:00:03:19:12), Dst: 314-vl101.ucinet.uci.edu
(00:19:07:f1:c0:00)
Internet Protocol Version 4, Src: dhcp-051237.ics.uci.edu (128.195.51.237), Dst: gaia.cs.umass.edu
(128.119.245.12)
Transmission Control Protocol, Src Port: 52202 (52202), Dst Port: http (80), Seq: 366, Ack: 1074, Len:
322
Hypertext Transfer Protocol
   GET /pearson.png HTTP/1.1\r\n
      [Expert Info (Chat/Sequence): GET /pearson.png HTTP/1.1\r\n]
      Request Method: GET
      Request URI: /pearson.png
      Request Version: HTTP/1.1
   Host: gaia.cs.umass.edu\r\n
   User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:56.0) Gecko/20100101 Firefox/56.0\r\n
   Accept: */*\r\n
   Accept-Language: en-US,en;q=0.5\r\n
   Accept-Encoding: gzip, deflate\r\n
   Referer: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html\r\n
   Connection: keep-alive\r\n
   \r\n
   [Full request URI: http://gaia.cs.umass.edu/pearson.png]
   [HTTP request 2/2]
   [Prev request in frame: 346]

[Response in frame: 356]

2nd Response:

356 7.682701758   gaia.cs.umass.edu   dhcp-051237.ics.uci.edu HTTP   781   HTTP/1.1 200 OK (PNG)

Frame 356: 781 bytes on wire (6248 bits), 781 bytes captured (6248 bits) on interface 0

Ethernet II, Src: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00), Dst: dhcp-051237.ics.uci.edu (00:00:00:03:19:12)

Internet Protocol Version 4, Src: gaia.cs.umass.edu (128.119.245.12), Dst: dhcp-051237.ics.uci.edu (128.195.51.237)

Transmission Control Protocol, Src Port: http (80), Dst Port: 52202 (52202), Seq: 3970, Ack: 688, Len: 715

[3 Reassembled TCP Segments (3611 bytes): #352(1448), #354(1448), #356(715)]

   [Frame: 352, payload: 0-1447 (1448 bytes)]

   [Frame: 354, payload: 1448-2895 (1448 bytes)]

   [Frame: 356, payload: 2896-3610 (715 bytes)]

   [Segment count: 3]

   [Reassembled TCP length: 3611]

   [Reassembled TCP Data: 485454502f312e3120323030204f4b0d0a446174653a2057...]

Hypertext Transfer Protocol

   HTTP/1.1 200 OK\r\n

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

      Request Version: HTTP/1.1

      Status Code: 200

      Response Phrase: OK

   Date: Wed, 25 Oct 2017 19:55:24 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: Sat, 06 Aug 2016 10:08:14 GMT\r\n

   ETag: "cc3-539645c7f1ee7"\r\n

   Accept-Ranges: bytes\r\n

   Content-Length: 3267\r\n

   Keep-Alive: timeout=5, max=99\r\n

   Connection: Keep-Alive\r\n

   Content-Type: image/png\r\n

   \r\n

   [HTTP response 2/2]

   [Time since request: 0.074967106 seconds]

   [Prev request in frame: 346]

   [Prev response in frame: 349]

   [Request in frame: 351]

   File Data: 3267 bytes

Portable Network Graphics

3rd GET:

361 8.577484794   dhcp-051237.ics.uci.edu caite.cs.umass.edu   HTTP   402   GET /~kurose/cover_5th_ed.jpg HTTP/1.1

Frame 361: 402 bytes on wire (3216 bits), 402 bytes captured (3216 bits) on interface 0

Ethernet II, Src: dhcp-051237.ics.uci.edu (00:00:00:03:19:12), Dst: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00)

Internet Protocol Version 4, Src: dhcp-051237.ics.uci.edu (128.195.51.237), Dst: caite.cs.umass.edu

(128.119.240.90)
Transmission Control Protocol, Src Port: 33702 (33702), Dst Port: http (80), Seq: 1, Ack: 1, Len: 336
Hypertext Transfer Protocol
  GET /~kurose/cover_5th_ed.jpg HTTP/1.1\r\n
    [Expert Info (Chat/Sequence): GET /~kurose/cover_5th_ed.jpg HTTP/1.1\r\n]
    Request Method: GET/tmp/wireshark_enx000000031912_20171025125516_vnFHzE.pcapng 773
total packets, 8 shown
    Request URI: /~kurose/cover_5th_ed.jpg
    Request Version: HTTP/1.1
  Host: manic.cs.umass.edu\r\n
  User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:56.0) Gecko/20100101 Firefox/56.0\r\n
  Accept: */*\r\n
  Accept-Language: en-US,en;q=0.5\r\n
  Accept-Encoding: gzip, deflate\r\n
  Referer: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html\r\n
  Connection: keep-alive\r\n
  \r\n
  [Full request URI: http://manic.cs.umass.edu/~kurose/cover_5th_ed.jpg]
  [HTTP request 1/1]
  [Response in frame: 363]

3rd Response:

  363 8.652731404   caite.cs.umass.edu   dhcp-051237.ics.uci.edu HTTP   522   HTTP/1.1 302
Found
(text/html)
Frame 363: 522 bytes on wire (4176 bits), 522 bytes captured (4176 bits) on interface 0
Ethernet II, Src: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00), Dst: dhcp-051237.ics.uci.edu
(00:00:00:03:19:12)
Internet Protocol Version 4, Src: caite.cs.umass.edu (128.119.240.90), Dst: dhcp-051237.ics.uci.edu
(128.195.51.237)
Transmission Control Protocol, Src Port: http (80), Dst Port: 33702 (33702), Seq: 1, Ack: 337, Len: 456
Hypertext Transfer Protocol
  HTTP/1.1 302 Found\r\n
    [Expert Info (Chat/Sequence): HTTP/1.1 302 Found\r\n]
    Request Version: HTTP/1.1
    Status Code: 302
    Response Phrase: Found
  Date: Wed, 25 Oct 2017 19:55:25 GMT\r\n
  Server: Apache\r\n
  Location: http://caite.cs.umass.edu/~kurose/cover_5th_ed.jpg\r\n
  Content-Length: 234\r\n
  Connection: close\r\n
  Content-Type: text/html; charset=iso-8859-1\r\n
  \r\n
  [HTTP response 1/1]
  [Time since request: 0.075246610 seconds]
  [Request in frame: 361]
  File Data: 234 bytes
Line-based text data: text/html
  <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\n

```
<html><head>\n
<title>302 Found</title>\n
</head><body>\n
<h1>Found</h1>\n
<p>The document has moved <a
href="http://caite.cs.umass.edu/~kurose/cover_5th_ed.jpg">here</a>.</p>\n
</body></html>\n
```

4th GET:

371 8.777541915   dhcp-051237.ics.uci.edu caite.cs.umass.edu   HTTP   402   GET /~kurose/
cover_5th_ed.jpg HTTP/1.1

Frame 371: 402 bytes on wire (3216 bits), 402 bytes captured (3216 bits) on interface 0

Ethernet II, Src: dhcp-051237.ics.uci.edu (00:00:00:03:19:12), Dst: 314-vl101.ucinet.uci.edu
(00:19:07:f1:c0:00)

Internet Protocol Version 4, Src: dhcp-051237.ics.uci.edu (128.195.51.237), Dst: caite.cs.umass.edu
(128.119.240.90)

Transmission Control Protocol, Src Port: 33704 (33704), Dst Port: http (80), Seq: 1, Ack: 1, Len: 336

Hypertext Transfer Protocol

GET /~kurose/cover_5th_ed.jpg HTTP/1.1\r\n

[Expert Info (Chat/Sequence): GET /~kurose/cover_5th_ed.jpg HTTP/1.1\r\n]

Request Method: GET

Request URI: /~kurose/cover_5th_ed.jpg

Request Version: HTTP/1.1

Host: caite.cs.umass.edu\r\n

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:56.0) Gecko/20100101 Firefox/56.0\r\n

Accept: */*\r\n

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

Accept-Encoding: gzip, deflate\r\n

Referer: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html\r\n

Connection: keep-alive\r\n

\r\n

[Full request URI: http://caite.cs.umass.edu/~kurose/cover_5th_ed.jpg]

[HTTP request 1/1]

[Response in frame: 508]

4th Response:

508 9.019305309   caite.cs.umass.edu   dhcp-051237.ics.uci.edu HTTP   1366   HTTP/1.1 200
OK (JPEG JFIF image)

Frame 508: 1366 bytes on wire (10928 bits), 1366 bytes captured (10928 bits) on interface 0

Ethernet II, Src: 314-vl101.ucinet.uci.edu (00:19:07:f1:c0:00), Dst: dhcp-051237.ics.uci.edu
(00:00:00:03:19:12)/tmp/wireshark_enx000000031912_20171025125516_vnFHzE.pcapng 773 total
packets, 8 shown

Internet Protocol Version 4, Src: caite.cs.umass.edu (128.119.240.90), Dst: dhcp-051237.ics.uci.edu
(128.195.51.237)

Transmission Control Protocol, Src Port: http (80), Dst Port: 33704 (33704), Seq: 99913, Ack: 337,
Len:
1300

[70 Reassembled TCP Segments (101212 bytes): #373(1448), #375(1448), #377(1448), #379(1448),
#381(1448),
#383(1448), #385(1448), #387(1448), #389(1448), #391(1448), #393(1448), #395(1448), #397(1448),
```

#399(1448), #401(1448), #403(1448), #40]
    [Frame: 373, payload: 0-1447 (1448 bytes)]
    [Frame: 375, payload: 1448-2895 (1448 bytes)]
    [Frame: 377, payload: 2896-4343 (1448 bytes)]
    [Frame: 379, payload: 4344-5791 (1448 bytes)]
    [Frame: 381, payload: 5792-7239 (1448 bytes)]
    [Frame: 383, payload: 7240-8687 (1448 bytes)]
    [Frame: 385, payload: 8688-10135 (1448 bytes)]
    [Frame: 387, payload: 10136-11583 (1448 bytes)]
    [Frame: 389, payload: 11584-13031 (1448 bytes)]
    [Frame: 391, payload: 13032-14479 (1448 bytes)]
    [Frame: 393, payload: 14480-15927 (1448 bytes)]
    [Frame: 395, payload: 15928-17375 (1448 bytes)]
    [Frame: 397, payload: 17376-18823 (1448 bytes)]
    [Frame: 399, payload: 18824-20271 (1448 bytes)]
    [Frame: 401, payload: 20272-21719 (1448 bytes)]
    [Frame: 403, payload: 21720-23167 (1448 bytes)]
    [Frame: 405, payload: 23168-24615 (1448 bytes)]
    [Frame: 407, payload: 24616-26063 (1448 bytes)]
    [Frame: 409, payload: 26064-27511 (1448 bytes)]
    [Frame: 411, payload: 27512-28959 (1448 bytes)]
    [Frame: 413, payload: 28960-30407 (1448 bytes)]
    [Frame: 415, payload: 30408-31855 (1448 bytes)]
    [Frame: 417, payload: 31856-33303 (1448 bytes)]
    [Frame: 419, payload: 33304-34751 (1448 bytes)]
    [Frame: 421, payload: 34752-36199 (1448 bytes)]
    [Frame: 423, payload: 36200-37647 (1448 bytes)]
    [Frame: 425, payload: 37648-39095 (1448 bytes)]
    [Frame: 427, payload: 39096-40543 (1448 bytes)]
    [Frame: 429, payload: 40544-41991 (1448 bytes)]
    [Frame: 431, payload: 41992-43439 (1448 bytes)]
    [Frame: 433, payload: 43440-44887 (1448 bytes)]
    [Frame: 435, payload: 44888-46335 (1448 bytes)]
    [Frame: 437, payload: 46336-47783 (1448 bytes)]
    [Frame: 439, payload: 47784-49231 (1448 bytes)]
    [Frame: 441, payload: 49232-50679 (1448 bytes)]
    [Frame: 443, payload: 50680-52127 (1448 bytes)]
    [Frame: 445, payload: 52128-53575 (1448 bytes)]
    [Frame: 447, payload: 53576-55023 (1448 bytes)]
    [Frame: 449, payload: 55024-56471 (1448 bytes)]
    [Frame: 451, payload: 56472-57919 (1448 bytes)]
    [Frame: 453, payload: 57920-59367 (1448 bytes)]
    [Frame: 455, payload: 59368-60815 (1448 bytes)]
    [Frame: 457, payload: 60816-62263 (1448 bytes)]
    [Frame: 459, payload: 62264-63711 (1448 bytes)]
    [Frame: 461, payload: 63712-65159 (1448 bytes)]
    [Frame: 463, payload: 65160-66607 (1448 bytes)]
    [Frame: 465, payload: 66608-68055 (1448 bytes)]
    [Frame: 467, payload: 68056-69503 (1448 bytes)]

[Frame: 469, payload: 69504-70951 (1448 bytes)]
[Frame: 471, payload: 70952-72399 (1448 bytes)]
[Frame: 473, payload: 72400-73847 (1448 bytes)]
[Frame: 475, payload: 73848-75295 (1448 bytes)]
[Frame: 477, payload: 75296-76743 (1448 bytes)]
[Frame: 479, payload: 76744-78191 (1448 bytes)]
[Frame: 481, payload: 78192-79639 (1448 bytes)]
[Frame: 483, payload: 79640-81087 (1448 bytes)]
[Frame: 485, payload: 81088-82535 (1448 bytes)]
[Frame: 487, payload: 82536-83983 (1448 bytes)]
[Frame: 489, payload: 83984-85431 (1448 bytes)]
[Frame: 491, payload: 85432-86879 (1448 bytes)]
[Frame: 493, payload: 86880-88327 (1448 bytes)]
[Frame: 495, payload: 88328-89775 (1448 bytes)]
[Frame: 497, payload: 89776-91223 (1448 bytes)]
[Frame: 499, payload: 91224-92671 (1448 bytes)]
[Frame: 501, payload: 92672-94119 (1448 bytes)]
[Frame: 502, payload: 94120-95567 (1448 bytes)]
[Frame: 504, payload: 95568-97015 (1448 bytes)]
[Frame: 505, payload: 97016-98463 (1448 bytes)]
[Frame: 507, payload: 98464-99911 (1448
bytes)]/tmp/wireshark_enx000000031912_20171025125516_vnFHzE.pcapng 773 total packets, 8
shown
[Frame: 508, payload: 99912-101211 (1300 bytes)]
[Segment count: 70]
[Reassembled TCP length: 101212]
[Reassembled TCP Data: 485454502f312e3120323030204f4b0d0a446174653a2057...]
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Request Version: HTTP/1.1
Status Code: 200
Response Phrase: OK
Date: Wed, 25 Oct 2017 19:55:25 GMT\r\n
Server: Apache\r\n
Last-Modified: Tue, 15 Sep 2009 18:23:27 GMT\r\n
ETag: "78004-18a68-473a1e0e6e5c0"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 100968\r\n
Connection: close\r\n
Content-Type: image/jpeg\r\n
\r\n
[HTTP response 1/1]
[Time since request: 0.241763394 seconds]
[Request in frame: 371]
File Data: 100968 bytes
JPEG File Interchange Format

16. The browser sent 4 GET requests. The first 2 were sent to gaia.cs.umass.edu (128.119.245.12) and the last 2 were sent to caite.cs.umass.edu (128.119.240.90).

17. The browser downloads the two images in parallel because the "Connection" header of the responses for both GET requests are set to "close" as indicated in green. If the connection were serial there would be only one response with "Connection: close".