

No.	Time	Source	Destination	Protocol	Length	Info
4	0.184719	172.20.10.9	128.119.245.12	HTTP	557	GET /

wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1

Frame 4: 557 bytes on wire (4456 bits), 557 bytes captured (4456 bits) on interface en0, id 0

Ethernet II, Src: Apple_cd:fc:62 (a4:d1:8c:cd:fc:62), Dst: 4e:57:ca:c5:1e:64 (4e:57:ca:c5:1e:64)

Internet Protocol Version 4, Src: 172.20.10.9, Dst: 128.119.245.12

Transmission Control Protocol, Src Port: 53209, Dst Port: 80, Seq: 1, Ack: 1, Len: 491

Source Port: 53209

Destination Port: 80

[Stream index: 3]

[TCP Segment Len: 491]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 3899702826

[Next sequence number: 492 (relative sequence number)]

Acknowledgment number: 1 (relative ack number)

Acknowledgment number (raw): 94385721

1000 = Header Length: 32 bytes (8)

Flags: 0x018 (PSH, ACK)

window size value: 2060

[Calculated window size: 2060]

[Window size scaling factor: -1 (unknown)]

Checksum: 0x82ce [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

[SEQ/ACK analysis]

[Timestamps]

TCP payload (491 bytes)

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

Connection: keep-alive\r\n

Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.97 Safari/537.36\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: ru-RU,ru;q=0.9,en-US;q=0.8,en;q=0.7\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: 8]

[Next request in frame: 9]

No.	Time	Source	Destination	Protocol	Length	Info
200	0.382482	128.119.245.12	172.20.10.9	HTTP	1138	HTTP/1.1

OK (text/html)

Frame 8: 1138 bytes on wire (9104 bits), 1138 bytes captured (9104 bits) on interface en0, id 0

Ethernet II, Src: 4e:57:ca:c5:1e:64 (4e:57:ca:c5:1e:64), Dst: Apple_cd:fc:62 (a4:d1:8c:cd:fc:62)

Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.20.10.9

Transmission Control Protocol, Src Port: 80, Dst Port: 53209, Seq: 1, Ack: 492, Len: 1072

Source Port: 80

Destination Port: 53209

[Stream index: 3]

[TCP Segment Len: 1072]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 94385721

[Next sequence number: 1073 (relative sequence number)]

Acknowledgment number: 492 (relative ack number)

Acknowledgment number (raw): 3899703317

1000 = Header Length: 32 bytes (8)

Flags: 0x018 (PSH, ACK)

Window size value: 235

[Calculated window size: 235]

[Window size scaling factor: -1 (unknown)]

Checksum: 0x0acf [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

[SEQ/ACK analysis]

[Timestamps]

TCP payload (1072 bytes)

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: Thu, 11 Jun 2020 22:44:43 GMT\r\n

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.6 mod_perl/2.0.11 Perl/v5.16.3\r\n

Last-Modified: Thu, 11 Jun 2020 05:59:04 GMT\r\n

ETag: "2ca-5a7c8a86862d0"\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: 0.197763000 seconds]

[Request in frame: 4]

[Next request in frame: 9]

[Next response in frame: 12]

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

File Data: 714 bytes

Line-based text data: text/html (17 lines)

No.	Time	Source	Destination	Protocol	Length	Info
9	0.481916	172.20.10.9	128.119.245.12	HTTP	489	GET /

pearson.png HTTP/1.1

Frame 9: 489 bytes on wire (3912 bits), 489 bytes captured (3912 bits) on interface en0, id 0
Ethernet II, Src: Apple_cd:fc:62 (a4:d1:8c:cd:fc:62), Dst: 4e:57:ca:c5:1e:64 (4e:57:ca:c5:1e:64)

Internet Protocol Version 4, Src: 172.20.10.9, Dst: 128.119.245.12

Transmission Control Protocol, Src Port: 53209, Dst Port: 80, Seq: 492, Ack: 1073, Len: 423

Source Port: 53209

Destination Port: 80

[Stream index: 3]

[TCP Segment Len: 423]

Sequence number: 492 (relative sequence number)

Sequence number (raw): 3899703317

[Next sequence number: 915 (relative sequence number)]

Acknowledgment number: 1073 (relative ack number)

Acknowledgment number (raw): 94386793

1000 = Header Length: 32 bytes (8)

Flags: 0x018 (PSH, ACK)

window size value: 2048

[Calculated window size: 2048]

[Window size scaling factor: -1 (unknown)]

Checksum: 0xd736 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0

Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps

[SEQ/ACK analysis]

[Timestamps]

TCP payload (423 bytes)

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

Connection: keep-alive\r\n

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.97 Safari/537.36\r\n

Accept: image/webp,image/apng,image/*,*/*;q=0.8\r\n

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

Accept-Encoding: gzip, deflate\r\n

Accept-Language: ru-RU,ru;q=0.9,en-US;q=0.8,en;q=0.7\r\n

\r\n

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

[HTTP request 2/2]

[Prev request in frame: 4]

[Response in frame: 12]

No.	Time	Source	Destination	Protocol	Length	Info
12	0.863579	128.119.245.12	172.20.10.9	HTTP	900	HTTP/1.1

200 OK (PNG)
Frame 12: 900 bytes on wire (7200 bits), 900 bytes captured (7200 bits) on interface en0, id 0
Ethernet II, Src: 4e:57:ca:c5:1e:64 (4e:57:ca:c5:1e:64), Dst: Apple_cd:fc:62 (a4:d1:8c:cd:fc:62)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.20.10.9
Transmission Control Protocol, Src Port: 80, Dst Port: 53209, Seq: 3849, Ack: 915, Len: 834
Source Port: 80
Destination Port: 53209
[Stream index: 3]
[TCP Segment Len: 834]
Sequence number: 3849 (relative sequence number)
Sequence number (raw): 94389569
[Next sequence number: 4683 (relative sequence number)]
Acknowledgment number: 915 (relative ack number)
Acknowledgment number (raw): 3899703740
1000 = Header Length: 32 bytes (8)
Flags: 0x018 (PSH, ACK)
window size value: 243
[Calculated window size: 243]
[window size scaling factor: -1 (unknown)]
Checksum: 0xe177 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
[SEQ/ACK analysis]
[Timestamps]
TCP payload (834 bytes)
TCP segment data (834 bytes)
[3 Reassembled TCP Segments (3610 bytes): #10(1388), #11(1388), #12(834)]
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Thu, 11 Jun 2020 22:44:44 GMT\r\n\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.6 mod_perl/2.0.11 Perl/v5.16.3\r\n\r\n
Last-Modified: Sat, 06 Aug 2016 10:08:14 GMT\r\n\r\n
ETag: "cc3-539645c7f1ee7"\r\n\r\n
Accept-Ranges: bytes\r\n\r\n
Content-Length: 3267\r\n\r\n
Keep-Alive: timeout=5, max=99\r\n\r\n
Connection: Keep-Alive\r\n\r\n
Content-Type: image/png\r\n\r\n
\r\n\r\n
[HTTP response 2/2]
[Time since request: 0.381663000 seconds]
[Prev request in frame: 4]
[Prev response in frame: 8]
[Request in frame: 9]
[Request URI: http://gaia.cs.umass.edu/pearson.png]
File Data: 3267 bytes
Portable Network Graphics

No.	Time	Source	Destination	Protocol	Length	Info
14	1.034635	172.20.10.9	128.119.245.12	HTTP	503	GET / ~kurose/cover_5th_ed.jpg HTTP/1.1

Frame 14: 503 bytes on wire (4024 bits), 503 bytes captured (4024 bits) on interface en0, id 0
Ethernet II, Src: Apple_cd:fc:62 (a4:d1:8c:cd:fc:62), Dst: 4e:57:ca:c5:1e:64 (4e:57:ca:c5:1e:64)
Internet Protocol Version 4, Src: 172.20.10.9, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 53212, Dst Port: 80, Seq: 1, Ack: 1, Len: 437
Source Port: 53212
Destination Port: 80
[Stream index: 4]
[TCP Segment Len: 437]
Sequence number: 1 (relative sequence number)
Sequence number (raw): 3300181491
[Next sequence number: 438 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
Acknowledgment number (raw): 4025996995
1000 = Header Length: 32 bytes (8)
Flags: 0x018 (PSH, ACK)
window size value: 2060
[Calculated window size: 2060]
[window size scaling factor: -1 (unknown)]
Checksum: 0x4b22 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
[SEQ/ACK analysis]
[Timestamps]
TCP payload (437 bytes)
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: manic.cs.umass.edu\r\n
Connection: keep-alive\r\n
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.97 Safari/537.36\r\n
Accept: image/webp,image/apng,image/*,*/*;q=0.8\r\n
Referer: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html\r\n
Accept-Encoding: gzip, deflate\r\n
Accept-Language: ru-RU,ru;q=0.9,en-US;q=0.8,en;q=0.7\r\n
\r\n
[Full request URI: http://manic.cs.umass.edu/~kurose/cover_5th_ed.jpg]
[HTTP request 1/1]
[Response in frame: 88]

No.	Time	Source	Destination	Protocol	Length	Info
88	1.694721	128.119.245.12	172.20.10.9	HTTP	1447	HTTP/1.1

200 OK (JPEG JFIF image)
Frame 88: 1447 bytes on wire (11576 bits), 1447 bytes captured (11576 bits) on interface en0, id 0
Ethernet II, Src: 4e:57:ca:c5:1e:64 (4e:57:ca:c5:1e:64), Dst: Apple_cd:fc:62 (a4:d1:8c:cd:fc:62)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 172.20.10.9
Transmission Control Protocol, Src Port: 80, Dst Port: 53212, Seq: 99937, Ack: 438, Len: 1381
Source Port: 80
Destination Port: 53212
[Stream index: 4]
[TCP Segment Len: 1381]
Sequence number: 99937 (relative sequence number)
Sequence number (raw): 4026096931
[Next sequence number: 101318 (relative sequence number)]
Acknowledgment number: 438 (relative ack number)
Acknowledgment number (raw): 3300181928
1000 = Header Length: 32 bytes (8)
Flags: 0x018 (PSH, ACK)
window size value: 235
[Calculated window size: 235]
[window size scaling factor: -1 (unknown)]
Checksum: 0x9737 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
[SEQ/ACK analysis]
[Timestamps]
TCP payload (1381 bytes)
TCP segment data (1381 bytes)
[73 Reassembled TCP Segments (101317 bytes): #15(1388), #16(1388), #17(1388), #18(1388), #19(1388), #20(1388), #21(1388), #22(1388), #23(1388), #24(1388), #26(1388), #27(1388), #28(1388), #29(1388), #30(1388), #31(1388), #32(1388), #33(1388)]
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Thu, 11 Jun 2020 22:44:44 GMT\r\n\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.6 mod_perl/2.0.11 Perl/v5.16.3\r\n\r\n
Last-Modified: Tue, 15 Sep 2009 18:23:27 GMT\r\n\r\n
ETag: "18a68-473a1e0e6e5c0"\r\n\r\n
Accept-Ranges: bytes\r\n\r\n
Content-Length: 100968\r\n\r\n
Keep-Alive: timeout=5, max=100\r\n\r\n
Connection: Keep-Alive\r\n\r\n
Content-Type: image/jpeg\r\n\r\n
\r\n\r\n
[HTTP response 1/1]
[Time since request: 0.660086000 seconds]
[Request in frame: 14]
[Request URI: http://manic.cs.umass.edu/~kurose/cover_5th_ed.jpg]
File Data: 100968 bytes
JPEG File Interchange Format