

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]\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
8	0.382482	128.119.245.12	172.20.10.9	HTTP	1138	HTTP/1.1

200 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  
[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