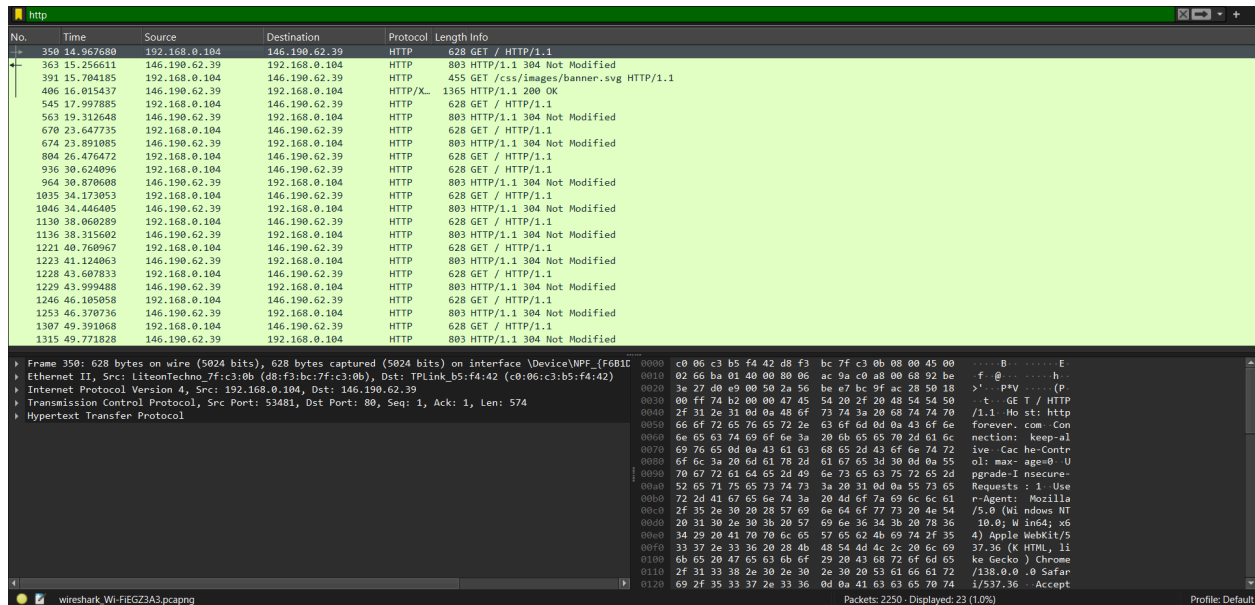


HTTP filter:



The image displays a Wireshark packet capture of HTTP traffic. The packet list shows a GET request for /css/images/banner.svg. The packet details show the HTTP request structure. The packet bytes show the raw data.

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967880	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
363	15.256611	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
391	15.704185	192.168.0.104	146.190.62.39	HTTP	455	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
563	19.312648	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
670	23.647735	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891085	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
964	30.870608	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1035	34.173053	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124063	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.999488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1246	46.105058	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1253	46.370736	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1307	49.391068	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1315	49.771828	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified

Frame 350: 628 bytes on wire (5024 bits), 628 bytes captured (5024 bits) on interface \Device\NPF... (F081C...)

Ethernet II, Src: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b), Dst: TPLink_b5:f4:42 (c0:06:c3:b5:f4:42)

Internet Protocol Version 4, Src: 192.168.0.104, Dst: 146.190.62.39

Transmission Control Protocol, Src Port: 53481, Dst Port: 80, Seq: 1, Ack: 1, Len: 574

Hypertext Transfer Protocol

0000 c0 06 c3 b5 f4 42 d8 f3 bc 7f c3 0b 08 00 45 00 ... B ... E

0010 02 66 ba 01 40 00 80 06 ac 9a c0 a8 00 68 92 be ... f @ ... h...

0020 3e 27 d0 e9 00 50 2a 56 be e7 bc 9f ac 28 50 18 ... > ... PVV ... (P

0030 00 ff 74 b2 00 00 47 45 54 20 2f 20 4b 54 54 50 ... t ... GE T / HTTP

0040 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 68 74 74 70 ... /1.1 -Ho st: http

0050 66 6f 72 65 76 65 72 2e 63 6f 6d 0d 0a 43 6f 6e ... foreve, .com -Con

0060 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c ... nection: keep-al

0070 69 76 65 0d 0a 43 61 63 68 65 2d 43 6f 6e 74 72 ... ive -Cac he-Contr

0080 6f 6c 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a 55 ... ol: max-age=0 U

0090 70 67 72 61 64 65 2d 49 6e 73 65 63 75 72 65 2d ... pgrade-I nsecure-

00a0 52 65 71 75 65 73 74 73 3a 20 31 0d 0a 55 73 65 ... Requests : 1 Use

00b0 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 ... r-Agent: Mozilla

00c0 2f 35 2e 30 20 28 57 69 6e 64 6f 77 73 20 4e 54 ... /5.0 (Wi ndows NT

00d0 20 31 30 2e 30 3b 20 57 69 6e 36 34 3b 20 78 36 ... 10.0; W in64; x6

00e0 34 29 20 41 70 70 6c 65 57 65 62 4b 69 74 2f 35 ... 4) Apple WebKit/5

00f0 33 37 2e 33 36 20 28 4b 48 5d 4d 4c 2c 20 6c 69 ... 37.36 (K HTML, 11

0100 6b 65 20 47 65 63 6b 6f 29 20 43 68 72 6f 6d 65 ... ke Gecko) Chrome

0110 2f 31 33 38 2e 30 2e 30 2e 30 20 53 61 66 61 72 ... /138.0.0 .0 Safar

0120 69 2f 35 33 37 2e 33 36 0d 0a 41 63 63 65 70 74 ... i/537.36 ... Accept

Packets: 2250 - Displayed: 23 (1.0%)

Profile: Default

Request

- Hypertext Transfer Protocol:

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967680	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
363	15.256611	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
391	15.704185	192.168.0.104	146.190.62.39	HTTP	455	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X..	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
563	19.312648	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
670	23.647735	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891085	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
964	30.870608	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1035	34.173053	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124063	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.898488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified

Frame 350: 628 bytes on wire (5024 bits), 628 bytes captured (5024 bits) on interface \Device\NPF_{F681C000-0010-0000-0000-000000000000}
Ethernet II, Src: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b), Dst: TPLink_b5:f4:42 (c0:86:c3:b5:f4:42)
Internet Protocol Version 4, Src: 192.168.0.104, Dst: 146.190.62.39
Transmission Control Protocol, Src Port: 53481, Dst Port: 80, Seq: 1, Ack: 1, Len: 574
Hypertext Transfer Protocol
GET / HTTP/1.1\r\nHost: httpforever.com\r\nConnection: keep-alive\r\nCache-Control: max-age=0\r\nUpgrade-Insecure-Requests: 1\r\nUser-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/100.0.4896.85 Safari/537.36\r\nAccept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8\r\nAccept-Encoding: gzip, deflate\r\nAccept-Language: en-US,en;q=0.9\r\nIf-None-Match: W/\"641b16b8-1404\"\r\nIf-Modified-Since: Wed, 22 Mar 2023 14:54:48 GMT\r\n\r\n

This is the application layer. Here is where the web browser creates the request using HTTP protocol. The request usually contains GET or POST methods, and also includes headers like Host, User-agent, Accept. These headers indicate to the server which page is requested, the type of device or browser making the request, and the kind of content the client is capable of processing. This layer concentrates on structuring and understanding the content intended for the user.

The first line is the request line, the rest is header lines till \r\n. GET primarily gets information only and retrieves data.

• Transmission Control Protocol:

No.	Time	Source	Destination	Protocol	Length	Info
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124063	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.999488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1246	46.105058	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1253	46.370736	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1307	49.391068	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1315	49.771828	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
36259	827.432188	192.168.0.104	192.168.0.1	HTTP	250	GET /gatedesc.xml HTTP/1.1
36268	827.456992	192.168.0.1	192.168.0.104	HTTP/X..	513	HTTP/1.1 200 OK
37697	854.771448	192.168.0.104	23.58.120.210	HTTP	208	GET /connecttest.txt HTTP/1.1
37699	854.789286	23.58.120.210	192.168.0.104	HTTP	241	HTTP/1.1 200 OK (text/plain)
37705	854.789927	192.168.0.104	23.58.120.226	HTTP	208	GET /connecttest.txt HTTP/1.1

Frame 350: 628 bytes on wire (5024 bits), 628 bytes captured (5024 bits) on interface vDevice\NPF{F6B...} (ethernet II, Src: LiteonTechno 7f:c3:0b:(d8:f3:bc:7f:c3:0b), Dst: TPLink b5:f4:42 (c0:86:c3:b5:f4:42))

Internet Protocol Version 4, Src: 192.168.0.104, Dst: 146.190.62.39

Transmission Control Protocol, Src Port: 53481, Dst Port: 80, Seq: 1, Ack: 1, Len: 574

Source Port: 53481

Destination Port: 80

[Stream index: 25]

[Stream Packet Number: 4]

[Conversation completeness: Complete, WITH_DATA (31)]

...0... = RST: Absent

...1... = FIN: Present

...1... = Data: Present

...1... = ACK: Present

...1... = SYN-ACK: Present

...1... = SYN: Present

[Completeness Flags: +DASS]

[TCP Segment Len: 574]

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 710328039

[Next Sequence Number: 575 (relative sequence number)]

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 316450004

0101... = Header Length: 20 bytes (5)

Flags: 0x018 (PSH, ACK)

000... = Reserved: Not set

...0... = Accurate ECN: Not set

No.	Time	Source	Destination	Protocol	Length	Info
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124063	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.999488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1246	46.105058	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1253	46.370736	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1307	49.391068	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1315	49.771828	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
36259	827.432188	192.168.0.104	192.168.0.1	HTTP	250	GET /gatedesc.xml HTTP/1.1
36268	827.456992	192.168.0.1	192.168.0.104	HTTP/X..	513	HTTP/1.1 200 OK
37697	854.771448	192.168.0.104	23.58.120.210	HTTP	208	GET /connecttest.txt HTTP/1.1
37699	854.789286	23.58.120.210	192.168.0.104	HTTP	241	HTTP/1.1 200 OK (text/plain)
37705	854.789927	192.168.0.104	23.58.120.226	HTTP	208	GET /connecttest.txt HTTP/1.1

000... = Reserved: Not set

...0... = Accurate ECN: Not set

...0... = Congestion Window Reduced: Not set

...0... = ECN-Echo: Not set

...0... = Urgent: Not set

...1... = Acknowledgment: Set

...1... = Push: Set

...0... = Reset: Not set

...0... = Syn: Not set

...0... = Fin: Not set

[TCP Flags:A...]

Window: 255

[Calculated window size: 65280]

[Window size scaling factor: 256]

Checksum: 0x74b2 (unverified)

[Checksum Status: Unverified]

Urgent Pointer: 0

[Timestamps]

[Time since first frame in this TCP stream: 0.277548000 seconds]

[Time since previous frame in this TCP stream: 0.005238000 seconds]

[SEQ/ACK analysis]

[IRTT: 0.272310000 seconds]

[Bytes in flight: 574]

[Bytes sent since last PSH flag: 574]

TCP payload (574 bytes)

Hypertext Transfer Protocol

This is the transport layer, which is where TCP is used. This layer processes the HTTP request and divides it into smaller parts, also including source and destination port numbers (80 is used for HTTP). TCP ensures that all data segments reach their destination in the proper sequence regardless of the varied routes they may take to the server.

Here source port = 53481 and destination port = 80

- **Internet Protocol:**

No.	Time	Source	Destination	Protocol	Length	Info
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124063	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.999488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1246	46.105058	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1253	46.370736	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1307	49.391068	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1315	49.771828	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
36259	827.432188	192.168.0.104	192.168.0.1	HTTP	250	GET /gatedesc.xml HTTP/1.1
36268	827.456992	192.168.0.1	192.168.0.104	HTTP/X...	513	HTTP/1.1 200 OK
37697	854.771448	192.168.0.104	23.58.120.210	HTTP	208	GET /connecttest.txt HTTP/1.1
37699	854.789286	23.58.120.210	192.168.0.104	HTTP	241	HTTP/1.1 200 OK (text/plain)
37705	854.789927	192.168.0.104	23.58.120.226	HTTP	208	GET /connecttest.txt HTTP/1.1

Frame 350: 628 bytes on wire (5024 bits), 628 bytes captured (5024 bits) on interface \Device\NPF... Ethernet II, Src: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b), Dst: TPLink_b5:f4:42 (c0:86:c3:b5:f4:42) Internet Protocol Version 4, Src: 192.168.0.104, Dst: 146.190.62.39 0100 = Version: 4 0101 = Header Length: 20 bytes (5) Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT) 0000 00.. = Differentiated Services Codepoint: Default (0)00 = Explicit Congestion Notification: Not ECN-Capable Transport (0) Total length: 614 Identification: 0xba01 (47617) 010 = Flags: 0x2, Don't fragment 0.... = Reserved bit: Not set 1.... = Don't fragment: Set ..0. = More fragments: Not set ...0 0000 0000 0000 = Fragment Offset: 0 Time to Live: 128 Protocol: TCP (6) Header Checksum: 0xac9a [validation disabled] [Header checksum status: Unverified] Source Address: 192.168.0.104 Destination Address: 146.190.62.39 [Stream index: 17] Transmission Control Protocol, Src Port: 53481, Dst Port: 80, Seq: 1, Ack: 1, Len: 574 Hypertext Transfer Protocol	0020 3e 27 40 e9 00 50 2a 56 be e7 bc 9f ac 28 50 18 >' PVV ... (P 0030 00 ff 74 b2 00 00 47 45 54 20 2f 20 48 54 54 50 t GE T / HTTP 0040 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 68 74 74 70 /1.1 Ho st: http 0050 66 6f 72 65 76 65 72 2e 63 6f 6d 0d 0a 43 6f 6e forever. com/ Con 0060 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c nnection: keep-al 0070 69 76 65 0d 0a 43 61 63 68 65 2d 43 6f 6e 74 72 ive Cac he-Contr 0080 6f 6c 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a 55 ol: max- age=0 U 0090 70 67 72 61 64 65 2d 49 6e 73 65 63 75 72 65 2d pgrade-I nsecure- 00a0 52 65 71 75 65 73 74 73 3a 20 31 0d 0a 55 73 65 Requests : 1 Use 00b0 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 r-Agent: Mozilla 00c0 2f 35 2e 30 20 28 57 69 6e 64 6f 77 73 20 4e 54 /5.0 (Wi ndows NT 00d0 20 31 30 2e 30 3b 20 57 69 6e 36 34 3b 20 78 36 10.0; W in64; x6 00e0 34 29 20 41 70 70 6c 65 57 65 62 4b 69 74 2f 35 4) AppleWebKit/5 00f0 33 37 2e 33 36 20 2d 4b 48 54 4d 4c 2c 20 6c 69 37.35 (KHTML, li 0100 6b 65 20 47 65 63 6b 6f 29 20 43 68 72 6f 6d 65 ke Gecko) Chrome 0110 2f 31 33 38 2e 30 2e 30 2e 30 20 53 61 66 61 72 /138.0.0 .0 Safar 0120 69 2f 35 33 37 2e 33 36 0d 0a 41 63 63 65 70 74 i/537.36 Accept 0130 3a 20 74 65 76 74 2f 68 74 6d 6c 2c 61 70 70 6c t text/html,appl 0140 69 63 61 74 69 6f 6e 2f 78 68 74 6d 6c 2b 78 6d ication/ xhtmlxm 0150 6c 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 6d l,applic ation/xm 0160 6c 3b 71 3d 30 2e 39 2c 69 6d 61 67 65 2f 61 76 liq=0.9, image/av 0170 69 66 2c 69 6d 61 67 65 2f 77 65 62 70 2c 69 6d if,image /webp,im 0180 61 67 65 2f 61 70 6e 67 2c 2a 2f 2a 3b 71 3d 30 age/apng ;/jsq=0 0190 2e 38 2c 61 70 70 6e 69 63 61 74 69 6f 6e 2f 73 .8,appli cation/s 01a0 69 67 6e 65 64 2d 65 78 63 68 61 6e 67 65 3b 76 igned-ex change/v 01b0 3d 62 33 3b 71 3d 30 2e 37 0d 0a 52 65 66 65 72 =b3;q=0.7;:refer 01c0 65 72 3a 20 68 74 74 70 73 3a 2f 2f 77 77 72 2e ces: http s://www. 01d0 67 6f 6f 6f 6c 65 2e 63 6f 6d 2f 0d 0a 41 63 63 google.c om/ Acc 01e0 65 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 7a ept-Enc oding: gz
---	--

This is the network layer where IP addresses are in control. It includes IP addresses of both sender and destination in the packet, which is crucial for routing across the network. This layer doesn't care about the data, rather just focuses on its destination and ways of reaching the destination.

This is IPv4. Here, source = 192.168.0.104 and destination = 146.190.62.39

- **Ethernet:**

No.	Time	Source	Destination	Protocol	Length	Info
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124863	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.999488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1246	46.105058	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1253	46.370736	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1307	49.391069	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1315	49.771828	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
36259	827.432188	192.168.0.104	192.168.0.1	HTTP	250	GET /gatedesc.xml HTTP/1.1
36268	827.456992	192.168.0.1	192.168.0.104	HTTP/X...	513	HTTP/1.1 200 OK
37697	854.771448	192.168.0.104	23.58.120.210	HTTP	208	GET /connecttest.txt HTTP/1.1
37699	854.789286	23.58.120.210	192.168.0.104	HTTP	241	HTTP/1.1 200 OK (text/plain)
37705	854.789927	192.168.0.104	23.58.120.226	HTTP	208	GET /connecttest.txt HTTP/1.1

Frame 350: 628 bytes on wire (5024 bits), 628 bytes captured (5024 bits) on interface \Device\NPF... (F681C...)

Ethernet II, Src: LiteonTechno 7f:c3:0b (d8:f3:bc:7f:c3:0b), Dst: TPLink b5:f4:42 (c0:06:c3:b5:f4:42)

Destination: TPLink_b5f442 (c0:06:c3:b5:f4:42)

.....0..... = LG bit: Globally unique address (factory default)

.....0..... = IG bit: Individual address (unicast)

Source: LiteonTechno_7fc30b (d8:f3:bc:7f:c3:0b)

.....0..... = LG bit: Globally unique address (factory default)

.....0..... = IG bit: Individual address (unicast)

Type: IPv4 (0x0800)

[Stream index: 0]

Internet Protocol Version 4, Src: 192.168.0.104, Dst: 146.190.62.39

Transmission Control Protocol, Src Port: 53481, Dst Port: 80, Seq: 1, Ack: 1, Len: 574

Hypertext Transfer Protocol

0000 3e 27 d0 e9 00 50 2a 56 be e7 bc 9f ac 28 50 18 >' P V ... (P

0030 00 ff 74 b2 00 00 47 45 54 20 2f 20 48 54 54 50 -t- GE T / HTTP

0040 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 68 74 74 70 /1.1 Ho st: http

0050 66 6f 72 65 76 65 72 2e 63 6f 6d 0d 0a 43 6f 6e foreve . com. Con

0060 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c nectio: keep-al

0070 69 76 65 0d 0a 43 61 63 68 65 2d 43 6f 6e 74 72 ive Cac he Contr

0080 6f 6c 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a 55 ol: max-age=0 U

0090 70 67 72 61 64 65 2d 49 6e 73 65 63 75 72 65 2d pgrade-I nsecure-

00a0 52 65 71 75 65 72 74 73 3a 20 31 0d 0a 58 73 65 Requests : 1 Use

00b0 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 rAgent: Mozilla

00c0 2f 35 2e 30 20 28 57 69 6e 64 6f 77 73 20 4e 54 /5.0 (Wi ndows NT

00d0 20 31 30 2e 30 3b 20 57 69 6e 36 34 3b 20 78 36 10.0; W in64; x6

00e0 34 20 41 70 70 6c 65 57 65 62 4b 69 7a 2f 35 4) Apple WebKit/5

00f0 33 2e 33 36 20 28 4b 48 54 4d 4c 2c 20 6c 69 37.36 (K HTML; li

0100 6b 65 20 47 65 63 6b 6f 29 20 43 68 72 6f 6d 65 ke Gecko) Chrome

0110 2f 31 33 38 2e 30 2e 30 2e 30 20 53 61 66 61 72 /138.0.0 .0 Safar

0120 69 2f 35 33 37 2e 33 36 0d 0a 41 63 63 65 70 74 1/537.36 --Accept

0130 3a 20 74 65 76 74 2f 68 74 6d 6c 2c 61 70 70 6c : text/h tml,appl

0140 69 63 61 74 69 6f 6e 2f 78 68 74 6d 6c 2b 78 6d ication/ xhtml+sm

0150 6c 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 6d l,applic ation/xm

0160 6c 3b 71 3d 30 2e 39 2c 69 6d 61 67 65 2f 61 76 liq=0.9, image/av

0170 69 66 2c 69 6d 61 67 65 2f 77 65 62 70 2c 69 6d if,image /webp,in

0180 61 67 65 2f 61 70 6e 67 2c 2a 2f 2a 3b 71 3d 30 age/apng /*;q=0

0190 2e 38 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 73 .8,applic ation/s

01a0 69 67 6e 65 64 2d 65 78 63 68 61 6e 67 65 3b 76 igned-ex change;v

01b0 3d 62 33 3b 71 3d 30 2e 37 0d 0a 52 65 66 65 72 -b3;q=0.7 Refer

01c0 65 72 3a 20 68 74 74 70 73 3a 2f 2f 77 77 72 2e eri: http s://www.

01d0 67 6f 67 6f 6c 65 2e 63 6f 6d 2f 0d 0a 41 63 63 google.c om/ Acc

01e0 65 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 7a ept-Encod ing: gz

The data link layer employs ethernet for managing local transmission. This layer includes physical addresses, referred as MAC addresses, in the packet to enable it to travel from the user end device to the next device on the local network, like router or switch. It functions within LAN making sure the packet arrives at the correct device nearby.

- **Frame:**

No.	Time	Source	Destination	Protocol	Length	Info
1136	38.315602	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1221	40.760967	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1223	41.124963	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1228	43.607833	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1229	43.999488	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1246	46.105058	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1253	46.370736	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1307	49.391068	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1315	49.771828	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
36259	827.432188	192.168.0.104	192.168.0.1	HTTP	250	GET /gatedesc.xml HTTP/1.1
36268	827.456992	192.168.0.1	192.168.0.104	HTTP/X..	513	HTTP/1.1 200 OK
37697	854.771448	192.168.0.104	23.58.120.210	HTTP	208	GET /connecttest.txt HTTP/1.1
37699	854.789286	23.58.120.210	192.168.0.104	HTTP	241	HTTP/1.1 200 OK (text/plain)
37705	854.789927	192.168.0.104	23.58.120.226	HTTP	208	GET /connecttest.txt HTTP/1.1

Frame 350: 628 bytes on wire (5024 bits), 628 bytes captured (5024 bits) on interface \Device\NPF_{F6B1DEA1-A718-4F56-8205-22C18516D183} Section numbers: 1

Interface id: 0 (\Device\NPF_{F6B1DEA1-A718-4F56-8205-22C18516D183})

Interface name: \Device\NPF_{F6B1DEA1-A718-4F56-8205-22C18516D183}

Interface description: Wi-Fi

Encapsulation type: Ethernet (1)

Arrival Time: Aug 6, 2025 21:24:30.707541000 Bangladesh Standard Time

UTC Arrival Time: Aug 6, 2025 15:24:30.707541000 UTC

Epoch Arrival Time: 1754493870.707541000

[Time shift for this packet: 0.000000000 seconds]

[Time delta from previous captured frame: 0.005238000 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 14.967680000 seconds]

Frame Number: 350

Frame Length: 628 bytes (5024 bits)

Capture Length: 628 bytes (5024 bits)

[Frame is marked: False]

[Frame is ignored: False]

[Protocols in frame: eth:ethertype:tcp:http]

[Coloring Rule Name: HTTP]

[Coloring Rule String: http || tcp.port == 80 || http2]

Ethernet II, Src: LiteonTechno_7f:c3:0b (d8:f3:bc7f:c3:0b), Dst: TPLink_b5:f4:42 (c0:86:c3:b5:f4:42)

Internet Protocol Version 4, Src: 192.168.0.104, Dst: 146.190.62.39

Transmission Control Protocol, Src Port: 53481, Dst Port: 80, Seq: 1, Ack: 1, Len: 574

Hypertext Transfer Protocol

0020 3e 27 d0 e9 00 50 2a 56 be e7 bc 9f ac 28 50 18 >: PVV ... (p

0030 00 ff 74 82 00 00 47 45 54 20 2f 20 40 54 54 50 t - GET / HTTP

0040 2f 31 2a 31 0d 0a 48 6f 73 74 3a 20 68 74 74 70 /1.1. Ho st: http

0050 66 6f 72 65 76 65 72 2e 63 6f 6d 0d 0a 43 6f 6e forevern, com Con

0060 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c nection: keep-al

0070 69 76 65 0d 0a 43 61 63 68 65 2d 43 6f 6e 74 72 ive Cac he Contr

0080 6f 6e 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a 55 ol: max- age=0 U

0090 70 67 72 61 64 65 2d 49 6e 73 65 63 75 72 65 2 pgrade-I nsecure-

00a0 52 65 71 75 65 73 74 73 3a 20 31 0d 0a 55 73 65 Requests : 1 Use

00b0 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6e 6c 61 r-Agent: Mozilla

00c0 2f 35 2a 30 20 28 57 69 6e 64 6f 77 73 20 4a 54 /5.0 (Mi ndows NT

00d0 20 31 30 2e 30 3b 20 57 69 6e 36 34 3b 20 78 36 10.0; W i64; x6

00e0 34 29 20 41 70 70 6c 65 57 65 62 4b 69 74 2f 35 4) Apple WebKit/5

00f0 33 37 2e 33 36 20 28 4b 48 54 4d 4c 2c 20 6c 69 37.36 (K HTML, li

0100 6b 65 20 47 65 63 6b 6f 29 20 43 68 72 6f 6d 65 ko Gecko) Chrome

0110 2f 31 33 38 2e 30 2e 30 2e 30 20 53 61 66 61 72 /138.0.0 .0 Safar

0120 69 2f 35 33 37 2a 33 36 0d 0a 41 63 63 65 70 74 /537.36 - Accept

0130 3a 20 74 65 78 74 2f 68 74 6d 6c 2c 61 70 70 6c : text/h tml,appl

0140 69 63 61 74 69 6f 6e 2f 68 68 74 6d 6c 2b 78 6d ication/ xhtml+xml

0150 6c 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 6d l;applic ation/xml

0160 6c 3b 71 3d 30 2e 39 2c 69 6d 61 67 65 2f 61 76 l;q=0.9, image/av

0170 69 66 2c 69 6d 61 67 65 2f 77 65 62 70 2c 69 6d if,image /webp,im

0180 61 67 65 2f 61 70 6e 67 2c 2a 2f 2a 3b 71 3d 30 age/apng ;?/q=0

0190 2a 38 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 73 ;-applic ation/s

01a0 69 67 6e 65 64 2d 65 78 63 68 61 6e 67 65 3b 76 igned-ex change/v

01b0 3d 62 33 3b 71 3d 30 2e 37 0d 0a 52 65 66 65 72 =b3;q=0.7 Refer

01c0 65 72 3a 20 68 74 74 70 73 3a 2f 2f 77 77 72 2e er: http s://www.

01d0 67 6f 6f 67 6c 65 2e 63 6f 6d 2f 0d 0a 41 63 63 google.c om/ Acc

01e0 65 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 78 ept-Enco ding: gz

Time delta from previous frame in this TCP stream (tcp.time_delta) Packets: 41864 - Displayed: 29 (0.1%) Profile: Default

The physical layer is tasked with transmitting the bits (0 or 1) via the wired or wireless WiFi. All the stacked information is converted into signals that move physically from the device to the network.

Response

- Hypertext Transfer Protocol:

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967680	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
351	15.250511	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
391	15.704185	192.168.0.104	146.190.62.39	HTTP	455	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X..	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
563	19.312648	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
670	23.647735	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891085	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
964	30.870608	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1035	34.173053	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1

Frame 363: 803 bytes on wire (6424 bits), 803 bytes captured (6424 bits) on interface \Device\NPF... (f681c...)

Ethernet II, Src: TPLink_B5:F4:42 (c0:00:c3:b5:f4:42), Dst: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b)

Internet Protocol Version 4, Src: 146.190.62.39, Dst: 192.168.0.104

Transmission Control Protocol, Src Port: 80, Dst Port: 53481, Seq: 1, Ack: 575, Len: 749

Hypertext Transfer Protocol

Response Version: HTTP/1.1

Status Code: 304

[Status Code Description: Not Modified]

Response Phrase: Not Modified

Server: nginx/1.18.0 (Ubuntu)

Date: Wed, 06 Aug 2025 15:24:31 GMT

Last-Modified: Wed, 22 Mar 2023 14:54:48 GMT

Connection: keep-alive

ETag: "641b16b8-1404"

Referer-Policy: strict-origin-when-cross-origin

X-Content-Type-Options: nosniff

Feature-Policy: accelerometer 'none'; camera 'none'; geolocation 'none'; gyroscope 'none'; magnetometer 'none'; microphone 'none'; payment 'none'; usb 'none'

[Content-Security-Policy: default-src 'self'; script-src cdnjs.cloudflare.com 'self'; style-src cdnjs.cloudflare.com 'self';

[Time since request: 0.288931000 seconds]

[Request URI: /]

0000 00 68 00 50 00 e0 bc 9f ac 20 2a 56 c1 25 50 18 h P... (*V NP

0030 01 f5 96 bf 00 00 48 54 54 50 2f 31 2a 31 20 33 ... HT TP/1.1

0040 30 34 20 4e 6f 74 20 4d 6f 64 69 66 69 65 64 0d 04 Not M odified

0050 0a 53 65 72 76 65 72 3a 20 6e 67 69 6e 78 2f 31 Server: nginx/1

0060 2e 31 30 2a 30 20 28 55 62 75 6e 74 75 29 0d 0e .18.0 (U buntu).

0070 44 61 74 65 3a 20 57 65 64 2c 20 30 36 20 41 75 Date: We d, 06 Au

0080 67 20 32 30 32 35 20 31 35 3a 32 34 3a 33 31 20 g 2025 1 5:24:31

0090 47 4d 54 0d 0a 4c 61 73 74 2d 4d 6f 64 69 66 69 GMT .Las t-Modifi

00a0 65 64 3a 20 57 65 64 2c 20 32 32 20 4d 61 72 20 ed: Wed, 22 Mar

00b0 32 30 32 33 20 31 34 3a 35 34 3a 34 38 20 47 4d 2023 14: 54:48 GM

00c0 54 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b T. Conne ction: k

00d0 65 65 70 2d 61 6c 69 76 65 0d 0a 45 54 61 67 3a eep-aliv e. ETag:

00e0 20 22 36 34 31 62 31 36 62 38 2d 31 34 30 34 22 "641b16 b8-1404"

00f0 0d 0a 52 65 66 65 72 72 65 72 2d 50 6f 6c 69 63 Refere r-Polic

0100 79 3a 20 73 74 72 69 63 74 2d 6f 72 69 67 69 6e y: stric t-origi

0110 2d 77 68 65 6e 2d 63 72 6f 73 73 2d 6f 72 69 67 -when-cr oss-orig

0120 69 6e 0d 0a 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 in: X-Co ntent-Ty

0130 70 65 2d 4f 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e pe-Optio ns: nosn

0140 69 66 66 0d 0a 46 65 61 74 75 72 65 2d 50 6f 6c iff fea ture-Pol

0150 69 63 79 3a 20 61 63 63 65 6c 65 72 6f 6d 65 74 icy: acc eleromet

0160 65 72 20 27 6e 6f 6e 65 27 3b 20 63 61 6d 65 72 er 'none' ; camer

0170 61 20 27 6e 6f 6e 65 27 3b 20 67 65 6f 6e 6f 63 a 'none' ; geoloc

0180 61 74 69 6f 6e 20 27 6e 6f 6e 65 27 3b 20 67 79 ation 'n one'; gy

0190 72 6f 73 63 6f 70 65 20 27 6e 6f 6e 65 27 3b 20 roscope 'none';

01a0 6d 61 67 6e 65 74 6f 6d 65 74 65 72 20 27 6e 6f magnetom eter 'no

01b0 6e 65 27 3b 20 6d 69 63 72 6f 70 68 6f 6e 65 20 ne'; mic rophone

01c0 27 6e 6f 6e 65 27 3b 20 70 61 79 6d 65 6e 74 20 'none' ; payment

01d0 27 6e 6f 6e 65 27 3b 20 75 73 62 20 27 6e 6f 6e 'none'; usb 'non

01e0 65 27 0d 0a 43 6f 6e 74 65 6e 74 2d 53 65 63 75 e' Cont ent-Secu

Time delta from previous frame in this TCP stream (tcp.time_delta)

Packets: 48144 - Displayed: 29 (0.1%)

Profile: Default

This process operates in reverse. In this case, the server handles the request and returns a reply.

This reply features a status code such as 200 OK and might include a webpage, image, or error message, plus headers like Content-Type, Content-Length, and Date this is the information that the browser will ultimately show.

The first line is status line and the rest is header lines.

- **Transmission Control Protocol:**

The image displays a Wireshark network traffic capture. The top pane shows a list of captured packets, primarily HTTP requests. The middle pane shows the details of the selected packet (Frame 363), which is a TCP segment. The bottom pane shows the raw data of the packet in hexadecimal and ASCII.

Packet List:

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967680	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
351	15.704185	192.168.0.104	146.190.62.39	HTTP	456	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X..	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
583	18.054848	146.190.62.39	192.168.0.104	HTTP	628	HTTP/1.1 304 Not Modified
670	23.647735	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891085	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
960	30.670608	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1034	34.173053	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	192.168.0.104	146.190.62.39	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1

Frame 363: 803 bytes on wire (6424 bits), 803 bytes captured (6424 bits) on interface UdeviceWPF (f68a...)

Ethernet II, Src: TP-LINK_15:14:12 (c8:00:0e:15:14:12), Dst: Hsiontechno_zf7c:3b:0b (d8:3f:7f:c3:b0)

Internet Protocol Version 4, Src: 146.190.62.39, Dst: 192.168.0.104

Transmission Control Protocol, Src Port: 80, Dst Port: 53481, Seq: 1, Ack: 575, Len: 749

Source Port: 80

Destination Port: 53481

[Stream index: 25]

[Stream Packet Number: 6]

[Conversation completeness: Complete, WITH_DATA (31)]

..0. = RST: Absent

.... = FIN: Present

.... = ACK: Present

.... = Data: Present

.... ..1. = ACK: Present

.... ..1. = SYN-ACK: Present

.... ..1. = SYN: Present

[Completeness Flags: -RSTSS]

[TCP Segment Len: 749]

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 3164580904

[Init Sequence Number: 750 (relative sequence number)]

Acknowledgment Number: 575 (relative ack number)

Acknowledgment Number (raw): 710328613

0101 = Header Length: 20 bytes (5)

Flags: 0x018 (PSH, ACK)

0000 = Reserved: Not set

..0. = Accurate ECN: Not set

0020 00 68 00 50 d0 e9 bc 9f ac 28 2a 56 c1 25 50 18

0030 01 f5 95 f6 08 00 4b 54 54 50 2f 31 2a 31 20 33

0040 30 3d 40 4e 7a 7d 24 6d 67 69 65 69 65 6d 0d

0050 0a 53 65 72 76 65 72 31 20 6e 67 69 65 78 2f 31

0060 2e 31 38 2e 20 28 55 62 75 6e 74 75 29 0d 0a

0070 44 61 74 65 3a 20 57 65 64 2c 20 30 60 41 75

0080 67 20 32 33 20 35 32 31 33 3d 34 3a 33 31 20

0090 47 4d 54 0d 0a 4c 61 73 74 32 4d 67 64 69 66 69

00a0 65 64 3a 20 57 65 64 2c 30 32 32 4d 41 72 20

00b0 32 30 32 33 20 31 34 3a 35 34 3a 3a 38 20 47 4d

00c0 54 0d 0a 43 6f 6e 65 72 63 74 69 6f 6e 63 20 6b

00d0 65 65 70 2d 61 6e 69 76 65 0d 45 54 61 67 3a

00e0 20 22 36 31 31 62 31 62 31 62 31 34 30 3a 22

00f0 0a 52 65 65 65 72 72 65 72 2d 50 6f 6f 69 63

0100 79 3a 20 73 74 72 69 63 74 73 72 67 69 69 6e

0110 2d 7f 68 65 6e 2d 43 72 6f 7d 2d 67 72 69 67

0120 69 6e 0d 0a 58 2d 43 6f 74 65 6e 74 2d 54 79

0130 70 65 2d 4f 70 74 69 6f 6e 73 3a 20 6f 67 73 6e

0140 69 66 6e 0d 0a 45 65 61 74 75 72 65 2d 50 6f 6e

0150 69 63 79 3a 20 61 63 63 65 65 72 6f 6f 6f 63

0160 65 72 20 6f 65 65 65 27 3b 20 63 61 6d 65 72

0170 61 20 27 6f 6e 65 65 27 3b 20 6f 6f 6f 6f 63

0180 61 74 69 6f 6e 20 27 6f 6e 65 65 27 3b 20 67 79

0190 72 6f 73 6f 70 65 20 27 6f 6e 65 65 27 3b 20

01a0 6d 6f 6f 6e 05 74 6f 6f 65 75 65 72 2d 6f 6f

01b0 65 65 27 3b 20 6d 69 63 72 72 6f 68 6f 6e 65 20

01c0 27 6e 6f 6f 65 27 3b 20 70 61 79 6d 65 6e 74 20

01d0 27 6e 6f 65 27 3b 20 73 62 20 27 6e 6f 6e 6f

01e0 65 27 0d 0a 43 6f 6e 74 65 74 2d 53 65 63 75

h P (VY Xd)

h P HTTP/1.1 3

04 Not Modified

Server: gunicorn/1.18.0 (uhttp)

Date: Wed, 06 Aug 2025 15:24:31 GMT

Last-Modified: Wed, 22 Mar 2023 14:54:48 GMT

Content-Type: text/html

Referer: http://192.

Wireshark packet capture analysis of an HTTP GET request. The packet list shows a GET request for /css/images/banner.svg. The packet details pane shows the structure of the HTTP request, including the status bar (200 OK), headers (Host, User-Agent, Accept, etc.), and the body (HTML content). The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967680	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
351	15.002511	192.168.0.104	146.190.62.39	HTTP	803	HTTP/1.1 200 OK Not Modified
391	15.704185	192.168.0.104	146.190.62.39	HTTP	455	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X..	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
563	19.312648	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
670	20.647315	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891085	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
938	30.870960	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1035	34.173953	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1

0000 = Reserved: Not set
 = Accurate ECM: Not set
 = Congestion window Reduced: Not set
 = ECH-Echo: Not set
 = Urgent: Not set
 = Acknowledgment: Set
 = Push: Set
 = Reset: Not set
 = Syn: Not set
 = Fin: Not set
 TCP flags:AP..
 Window: 501
 [calculated window size: 64128]
 [window size scaling factor: 128]
 Checksum: 0x96bf [unverified]
 [Checksum Status: Unverified]
 Urgent Pointer: 0
 [Timestamps]
 [Time since first frame in this TCP stream: 0.5664790000 seconds]
 [Time since previous frame in this TCP stream: 0.0000000000 seconds]
 [SEQ/ACK analysis]
 [RTT: 0.2723100000 seconds]
 [Bytes in flight: 749]
 [Bytes sent since last PSH flag: 749]
 TCP payload (745 bytes)
 Hypertext Transfer Protocol

0000 00 68 00 50 d0 e9 8c 9f ac 28 2a 56 c1 25 50 18 h P(V XP
 0020 01 f5 96 bf 00 00 48 54 50 2f 31 26 31 20 33 HT TP/1.1 3
 0040 30 34 20 4e 6f 74 20 4d 6f 64 69 69 65 64 0d O Not M odified
 0060 0a 53 65 72 76 75 62 73 2a 60 67 69 6e 78 2f 31 Server: nginx/1
 0080 2e 31 38 2e 30 76 28 55 62 75 6e 74 75 29 0d 0a .18.0 (U buntu)
 00a0 41 61 74 65 3a 20 57 65 6a 2c 20 38 3e 20 41 75 Date: Wed, 06 Au
 00c0 67 20 32 30 32 35 20 31 35 3a 32 3a 3a 33 31 2d g 2005 1 5 24:31
 00e0 47 4d 54 0d 0a ac 61 73 74 2d 4d 6f 64 69 6e 69 GMT_Las t-Modifi
 0100 65 64 3a 20 57 65 64 2c 20 32 32 40 41 72 20 Ed: Wed, 22 Mar
 0120 32 30 32 33 20 31 34 3a 35 3a 3a 3a 38 20 47 4d 2023 14: 54:48 GM
 0140 00 0a 43 6f 6e 6e 65 63 74 69 6f 6e 6e 3a 20 6b T Connection: k
 0160 65 65 70 31 61 6e 69 76 6e 00 0a 45 54 61 67 3a keep-aliv e: Tag:
 0180 20 22 36 34 22 62 31 36 62 38 2d 31 34 3a 34 22 "G41b6-1408"
 01a0 0a 52 65 6e 65 72 72 62 2d 50 6f 6e 6e 60 63 Refere nce-Polic
 01c0 79 3a 20 73 74 72 69 63 74 2d 6f 72 69 6f 69 6e y: stric t-origin
 01e0 27 78 65 6e 2d 63 72 6f 73 73 2d 6f 72 69 6f when-c onn-orig
 0200 69 68 0d 0e 58 2d 43 6f 6e 74 65 74 6e 74 2d 54 79 Invo-Conte nt: non
 0220 70 05 2d 4f 70 74 69 6f 6e 73 3a 20 6e 6f 71 6e op-Optio ns: non
 0240 69 66 0d 0a 46 65 61 74 75 75 62 2d 50 6f 6c iff_Fea ture-Pol
 0260 69 63 79 3a 20 61 63 63 65 65 72 6f 72 6f 64 65 74 icy: ac geloncat
 0280 65 72 20 27 6e 6f 6e 65 27 3b 20 63 6f 6d 65 72 en_ 'none'; cana
 02a0 61 20 27 6e 6f 6e 65 27 3b 20 65 6f 6f 6e 6f 63 a 'none'; g
 02c0 71 64 6f 6e 6e 20 27 6e 6e 65 27 3b 20 67 79 ation 'n one'; gy
 02e0 72 6f 73 6f 74 75 20 27 6e 6f 65 27 3b 20 70 roscope 'none';
 0300 6d 61 6f 6e 65 74 6f 6e 65 74 65 72 20 27 6e 6f magnet ete r 'no
 0320 6e 65 27 3b 20 6d 69 63 72 6f 70 68 6f 6e 6e 65 20 ne'; mic rophone
 0340 27 6e 6f 6e 65 27 3b 20 70 61 79 6d 6f 6e 6e 74 20 'none'; paymen t
 0360 27 6e 6f 6e 65 27 3b 20 75 6f 74 2d 50 6f 6e 6f 6e 'none'; us b 'Secu
 0380 25 27 0d 0a 43 6f 74 65 6e 74 65 2d 53 65 63 75 e' 74 2d 53 65 63 75

Time delta from previous frame in this TCP stream (7/20 time delta)

Packet: 4951, Discarded: 20 (1%)

Profile: Default

TCP ensures that the server response is broken into segments, labelled correctly, and delivered reliably back to the client. The port numbers are reversed now the server port 80 becomes the source and the client's temporary port becomes the destination.

Here, source port= 80 and destination port = 53481

- **Internet Protocol:**

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967680	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
351	15.255311	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
351	15.704185	192.168.0.104	146.190.62.39	HTTP	455	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X..	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
563	19.312648	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
670	23.647735	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891885	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
964	30.870608	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1035	34.173053	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1

Frame 363: 893 bytes on wire (6424 bits), 893 bytes captured (6424 bits) on interface Device\WPF (F681C...) Ethernet II, Src: TPLink_b5:f4:42 (c0:06:c3:b5:f4:42), Dst: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b) Internet Protocol Version 4, Src: 146.190.62.39, Dst: 192.168.0.104 0100 = Version: 4 0101 = Header Length: 20 bytes (5) Differentiated Services Fields: 0x00 (DSCP: CS0, ECN: Not-ECT) 0000 00.. = Differentiated Services Codepoint: Default (0) 00.. = Explicit Congestion Notification: Not ECN-Capable Transport (0) Total length: 789 Identification: 0xee28 (60968) 010. = Flags: 0x2, Don't fragment 0... .. = Reserved bit: Not set 1... .. = Don't fragment: Set ..0. = More fragments: Not set ...0 0000 0000 0000 = Fragment Offset: 0 Time to Live: 50 Protocol: TCP (6) Header Checksum: 0xc5c4 [validation disabled] [Header checksum status: Unverified] Source Address: 146.190.62.39 Destination Address: 192.168.0.104 [Stream index: 17] Transmission Control Protocol, Src Port: 80, Dst Port: 53481, Seq: 1, Ack: 575, Len: 749 Hypertext Transfer Protocol	0020 00 68 00 50 d0 e9 bc 9f ac 28 2a 56 c1 25 50 18 h P... (V XP 0030 01 f5 96 bf 00 00 48 54 54 50 2f 31 2a 31 20 33 ... HT TP/1.1 3 0040 30 34 20 4e 6f 74 20 4d 6f 64 69 66 69 65 64 0d 04 Not M odified 0050 0a 53 65 72 76 65 72 3a 20 6e 67 69 6e 78 2f 31 Server: ngxin/1 0060 2e 31 38 2e 30 20 28 55 62 75 6e 74 75 28 0d 0a .18.0 (U buntu) 0070 44 61 74 65 3a 20 57 65 64 2c 20 30 36 20 41 75 Date: We d, 06 Au 0080 67 20 32 30 32 35 20 31 35 3a 32 34 3a 33 31 20 g 2025 1 5:24:31 0090 47 4d 54 0d 0a 4c 61 73 74 2d 4d 6f 64 69 66 69 GMT Las t-Modifi 00a0 65 64 3a 20 57 65 64 2c 20 32 32 20 4d 61 72 20 ed: Wed, 22 Mar 00b0 32 30 32 33 20 31 34 3a 35 34 3a 34 38 20 47 4d 2023 1d: 54:48 08 00c0 54 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b T--Conne ction: k 00d0 65 65 70 2d 61 6c 69 76 65 0d 0a 45 54 61 67 3a eep-aliv e. ETag: 00e0 20 22 36 34 31 62 31 36 62 38 2d 31 34 30 34 22 "641b16 b8-1404" 00f0 0d 0a 52 65 66 65 72 72 63 72 2d 50 6f 6e 69 63 Refere r-Polic 0100 79 3a 20 73 74 72 69 63 74 2d 6f 72 69 67 69 6e ys. stric t-origin 0110 2d 77 68 65 6e 2d 63 72 6f 73 73 2d 6f 72 69 67 -when-cr oss-orig 0120 69 6e 0d 0a 58 2d 43 6f 6e 74 65 6e 74 2d 54 79 in X-Co ntent-ty 0130 70 65 2d 4f 70 74 69 6f 6e 73 3a 20 6e 6f 73 6e pe-Optio ns: non 0140 69 66 66 0d 0a 46 65 61 74 75 72 65 2d 50 6f 6c iff fea ture-Pol 0150 69 63 79 3a 20 61 63 63 65 6c 65 72 6f 64 65 74 icy: acc elemet 0160 65 72 20 27 6e 6f 6e 65 27 3b 20 63 61 6d 65 72 er 'none' ; camer 0170 61 20 27 6e 6f 6e 65 27 3b 20 67 65 6f 6e 6f 63 a 'none' ; geoloc 0180 61 74 69 6f 6e 20 27 6e 6f 6e 65 27 3b 20 67 79 ation 'n one'; by 0190 72 6f 73 63 6f 70 65 20 27 6e 6f 6e 65 27 3b 20 roscope 'none'; 01a0 6d 61 67 6e 65 74 6f 6d 65 74 65 72 20 27 6e 6f magnetom eter 'no 01b0 6e 65 27 3b 20 6d 69 63 72 6f 70 68 6f 6e 65 20 ne'; mic rophone 01c0 27 6e 6f 6e 65 27 3b 20 70 61 79 6d 65 6e 74 20 'none'; payment 01d0 27 6e 6f 6e 65 27 3b 20 75 73 62 20 27 6e 6f 6e 'none'; usb 'non 01e0 65 27 0d 0a 43 6f 6e 74 65 6e 74 2d 53 65 63 75 e'. Cont ent-Secu
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It assigns the server's IP as the source and the client's IP as the destination. The response packet travels across the internet back to the user's end device based on these addresses.

Here, source = 146.190.62.39 and destination = 192.168.0.104

- **Ethernet:**

No.	Time	Source	Destination	Protocol	Length	Info
350	14.967680	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
363	15.250311	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
391	15.704185	192.168.0.104	146.190.62.39	HTTP	455	GET /css/images/banner.svg HTTP/1.1
406	16.015437	146.190.62.39	192.168.0.104	HTTP/X..	1365	HTTP/1.1 200 OK
545	17.997885	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
563	19.312648	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
670	23.647735	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
674	23.891885	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
804	26.476472	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
936	30.624096	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
964	30.870608	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1035	34.173053	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
1046	34.446405	146.190.62.39	192.168.0.104	HTTP	803	HTTP/1.1 304 Not Modified
1130	38.060289	192.168.0.104	146.190.62.39	HTTP	628	GET / HTTP/1.1
Frame 363: 803 bytes on wire (6424 bits), 803 bytes captured (6424 bits) on interface vDevice\WPF (f681c000)						
Ethernet II, Src: TPLink_b5:f4:42 (c0:06:c3:b5:f4:42), Dst: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b)						
Destination: LiteonTechno_7f:c3:0b (d8:f3:bc:7f:c3:0b)						
Source: TPLink_b5:f4:42 (c0:06:c3:b5:f4:42)						
Type: IPv4 (0x0800)						
[Stream index: 0]						
Internet Protocol Version 4, Src: 146.190.62.39, Dst: 192.168.0.104						
Transmission Control Protocol, Src Port: 80, Dst Port: 53481, Seq: 1, Ack: 575, Len: 749						
Hypertext Transfer Protocol						

The data link layer adds the MAC addresses required to transmit the response data across the local network, transporting it from the server's network interface to the router and eventually to the client.

- **Frame:**

[illegible]

The physical layer transforms the data into physical signals and sends them through the internet connection to arrive at the client. Upon receipt, the client side declares to unwrap the data in a reverse sequence until the browser is able to render the response.