

```
194 4.579541      192.168.1.21      128.119.245.12      TCP      715      65013 → 80 [PSH, ACK] Seq=1 Ack=1 Win=17408 Len=661
Frame 194: 715 bytes on wire (5720 bits), 715 bytes captured (5720 bits) on interface 0
Interface id: 0 (\Device\NPF_{6D145BFA-397A-4491-B2F2-4A4D3D911C8C})
Interface name: \Device\NPF_{6D145BFA-397A-4491-B2F2-4A4D3D911C8C}
Encapsulation type: Ethernet (1)
Arrival Time: Mar  9, 2018 10:52:39.293190000 Pacific Standard Time
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1520621559.293190000 seconds
[Time delta from previous captured frame: 0.000429000 seconds]
[Time delta from previous displayed frame: 0.000429000 seconds]
[Time since reference or first frame: 4.579541000 seconds]
Frame Number: 194
Frame Length: 715 bytes (5720 bits)
Capture Length: 715 bytes (5720 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp:data]
[Coloring Rule Name: HTTP]
[Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: IntelCor_79:31:87 (a0:c5:89:79:31:87), Dst: Netgear_64:ab:88 (00:8e:f2:64:ab:88)
Destination: Netgear_64:ab:88 (00:8e:f2:64:ab:88)
Address: Netgear_64:ab:88 (00:8e:f2:64:ab:88)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Source: IntelCor_79:31:87 (a0:c5:89:79:31:87)
Address: IntelCor_79:31:87 (a0:c5:89:79:31:87)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0 .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.21, Dst: 128.119.245.12
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: 701
Identification: 0x2b52 (11090)
Flags: 0x02 (Don't Fragment)
0... .... = Reserved bit: Not set
.1.. .... = Don't fragment: Set
..0. .... = More fragments: Not set
Fragment offset: 0
Time to live: 128
Protocol: TCP (6)
Header checksum: 0x95a7 [validation disabled]
[Header checksum status: Unverified]
Source: 192.168.1.21
Destination: 128.119.245.12
[Source GeoIP: Unknown]
[Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 65013, Dst Port: 80, Seq: 1, Ack: 1, Len: 661
Source Port: 65013
Destination Port: 80
[Stream index: 4]
[TCP Segment Len: 661]
Sequence number: 1 (relative sequence number)
[Next sequence number: 662 (relative sequence number)]
Acknowledgment number: 1 (relative ack number)
0101 .... = Header Length: 20 bytes (5)
Flags: 0x018 (PSH, ACK)
000. .... = Reserved: Not set
...0 .... = Nonce: Not set
.... 0... = Congestion Window Reduced (CWR): 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: .....AP...]
Window size value: 68
[Calculated window size: 17408]
[Window size scaling factor: 256]
Checksum: 0x5038 [unverified]
[Checksum Status: Unverified]
Urgent pointer: 0
[SEQ/ACK analysis]
[iRTT: 0.120312000 seconds]
[Bytes in flight: 661]
[Bytes sent since last PSH flag: 661]
TCP payload (661 bytes)
Data (661 bytes)
0000 50 4f 53 54 20 2f 77 69 72 65 73 68 61 72 6b 2d POST /wireshark-
0010 6c 61 62 73 2f 6c 61 62 33 2d 31 2d 72 65 70 6c labs/lab3-1-repl
0020 79 2e 68 74 6d 20 48 54 50 2f 31 2e 31 0d 0a y.htm HTTP/1.1..
0030 48 6f 73 74 3a 20 67 61 69 61 2e 63 73 2e 75 6d Host: gaia.cs.um
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0040 61 73 73 2e 65 64 75 0d 0a 43 6f 6e 6e 65 63 74 ass.edu..Connect
0050 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 65 0d ion: keep-alive.
0060 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a .Content-Length:
0070 20 31 35 32 33 34 38 0d 0a 43 61 63 68 65 2d 43 152348..Cache-C
0080 6f 6e 74 72 6f 6c 3a 20 6d 61 78 2d 61 67 65 3d ontrol: max-age=
0090 30 0d 0a 4f 72 69 67 69 6e 3a 20 68 74 74 70 3a 0..Origin: http:
00a0 2f 2f 67 61 69 61 2e 63 73 2e 75 6d 61 73 73 2e //gaia.cs.umass.
00b0 65 64 75 0d 0a 55 70 67 72 61 64 65 2d 49 6e 73 edu..Upgrade-Ins
00c0 65 63 75 72 65 2d 52 65 71 75 65 73 74 73 3a 20 ecure-Requests:
00d0 31 0d 0a 43 6f 6e 74 2d 54 79 70 65 3a 1..Content-Type:
00e0 20 6d 75 6c 74 69 70 61 72 74 2f 66 6f 72 6d 2d multipart/form-
00f0 64 61 74 61 3b 20 62 6f 75 6e 64 61 72 79 3d 2d data; boundary=-
0100 2d 2d 2d 57 65 62 4b 69 74 46 6f 72 6d 42 6f 75 ---WebKitFormBou
0110 6e 64 61 72 79 47 71 62 74 55 6e 79 67 44 5a 47 ndaryGqbtUnygDZG
0120 52 44 55 4c 73 0d 0a 55 73 65 72 2d 41 67 65 6e RDULs..User-Agen
0130 74 3a 20 4d 6f 7a 69 6c 6c 61 2f 35 2e 30 20 28 t: Mozilla/5.0 (
0140 57 69 6e 64 6f 77 73 20 4e 54 20 31 30 2e 30 3b Windows NT 10.0;
0150 20 57 69 6e 36 34 3b 20 78 36 34 29 20 41 70 70 Win64; x64) App
0160 6c 65 57 65 62 4b 69 74 2f 35 33 37 2e 33 36 20 leWebKit/537.36
0170 28 4b 48 54 4d 4c 2c 20 6c 69 6b 65 20 47 65 63 (KHTML, like Gec
0180 6b 6f 29 20 43 68 72 6f 6d 65 2f 36 34 2e 30 2e ko) Chrome/64.0.
0190 33 32 38 32 2e 31 38 36 20 53 61 66 61 72 69 2f 3282.186 Safari/
01a0 35 33 37 2e 33 36 0d 0a 41 63 63 65 70 74 3a 20 537.36..Accept:
01b0 74 65 78 74 2f 68 74 6d 6c 2c 61 70 70 6c 69 63 text/html,applic
01c0 61 74 69 6f 6e 2f 78 68 74 6d 6c 2b 78 6d 6c 2c ation/xhtml+xml,
01d0 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 6d 6c 3b application/xml;
01e0 71 3d 30 2e 39 2c 69 6d 61 67 65 2f 77 65 62 70 q=0.9,image/webp
01f0 2c 69 6d 61 67 65 2f 61 70 6e 67 2c 2a 2f 2a 3b ,image/apng,*/*;
0200 71 3d 30 2e 38 0d 0a 52 65 66 65 72 65 72 3a 20 q=0.8..Referer:
0210 68 74 74 70 3a 2f 2f 67 61 69 61 2e 63 73 2e 75 http://gaia.cs.u
0220 6d 61 73 73 2e 65 64 75 2f 77 69 72 65 73 68 61 mass.edu/wiresha
0230 72 6b 2d 6c 61 62 73 2f 54 43 50 2d 77 69 72 65 rk-labs/TCP-wire
0240 73 68 61 72 6b 2d 66 69 6c 65 31 2e 68 74 6d 6c shark-file1.html
0250 0d 0a 41 63 63 65 70 74 2d 45 6e 63 6f 64 69 6e ..Accept-Encodin
0260 67 3a 20 67 7a 69 70 2c 20 64 65 66 6c 61 74 65 g: gzip, deflate
0270 0d 0a 41 63 63 65 70 74 2d 4c 61 6e 67 75 61 67 ..Accept-Languag
0280 65 3a 20 65 6e 2d 55 53 2c 65 6e 3b 71 3d 30 2e e: en-US,en;q=0.
0290 39 0d 0a 0d 0a 9....

Data: 504f5354202f77697265736861726b2d6c6162732f6c6162...

[Length: 661]