

No.	Time	Source	Destination	Protocol	Length	Info
111	2023-02-13 19:50:33.557748	10.162.31.137	128.119.245.12	HTTP	638	GET /wireshark-labs/HTTP-wireshark-file2.html

HTTP/1.1

Frame 111: 638 bytes on wire (5104 bits), 638 bytes captured (5104 bits) on interface \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}, id 0

Section number: 1

Interface id: 0 (\Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC})

Interface name: \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}

Interface description: Ethernet

Encapsulation type: Ethernet (1)

Arrival Time: Feb 13, 2023 19:50:33.557748000 Eastern Standard Time

[Time shift for this packet: 0.000000000 seconds]

Epoch Time: 1676335833.557748000 seconds

[Time delta from previous captured frame: 0.132015000 seconds]

[Time delta from previous displayed frame: 0.000000000 seconds]

[Time since reference or first frame: 4.373618000 seconds]

Frame Number: 111

Frame Length: 638 bytes (5104 bits)

Capture Length: 638 bytes (5104 bits)

[Frame is marked: False]

[Frame is ignored: False]

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

[Coloring Rule Name: HTTP]

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

Ethernet II, Src: Micro-St_06:51:9e (00:d8:61:06:51:9e), Dst: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)

Destination: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)

Address: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)

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

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

Source: Micro-St_06:51:9e (00:d8:61:06:51:9e)

Address: Micro-St_06:51:9e (00:d8:61:06:51:9e)

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

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

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 10.162.31.137, 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: 624

Identification: 0x66de (26334)

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: 0x0000 [validation disabled]

[Header checksum status: Unverified]

Source Address: 10.162.31.137

Destination Address: 128.119.245.12

Transmission Control Protocol, Src Port: 57111, Dst Port: 80, Seq: 1, Ack: 1, Len: 584

Source Port: 57111

Destination Port: 80

[Stream index: 6]

[Conversation completeness: Incomplete (28)]

[TCP Segment Len: 584]

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 2932569178

[Next Sequence Number: 585 (relative sequence number)]

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 1804408024

0101 = Header Length: 20 bytes (5)

Flags: 0x018 (PSH, ACK)

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:AP...]

Window: 1026

[Calculated window size: 1026]

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

Checksum: 0xa211 [unverified]

[Checksum Status: Unverified]

Urgent Pointer: 0

[Timestamps]

[Time since first frame in this TCP stream: 0.335834000 seconds]

[Time since previous frame in this TCP stream: 0.335710000 seconds]

[SEQ/ACK analysis]

[Bytes in flight: 584]

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[Bytes sent since last PSH flag: 584]
TCP payload (584 bytes)
Hypertext Transfer Protocol
GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
[Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
[GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
[Severity level: Chat]
[Group: Sequence]
Request Method: GET
Request URI: /wireshark-labs/HTTP-wireshark-file2.html
Request Version: HTTP/1.1
Host: gaia.cs.umass.edu\r\n
Connection: keep-alive\r\n
Cache-Control: max-age=0\r\n
Upgrade-Insecure-Requests: 1\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,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: en-US,en;q=0.9\r\n
If-None-Match: "173-5f48f61cf3191"\r\n
If-Modified-Since: Mon, 13 Feb 2023 06:59:02 GMT\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
[HTTP request 1/1]
[Response in frame: 116]
No.      Time                Source                Destination            Protocol Length Info
 116 2023-02-13 19:50:33.582569 128.119.245.12        10.162.31.137          HTTP      294      HTTP/1.1 304 Not Modified
Frame 116: 294 bytes on wire (2352 bits), 294 bytes captured (2352 bits) on interface \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}, id 0
  Section number: 1
    Interface id: 0 (\Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC})
      Interface name: \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}
      Interface description: Ethernet
    Encapsulation type: Ethernet (1)
    Arrival Time: Feb 13, 2023 19:50:33.582569000 Eastern Standard Time
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1676335833.582569000 seconds
    [Time delta from previous captured frame: 0.000268000 seconds]
    [Time delta from previous displayed frame: 0.024821000 seconds]
    [Time since reference or first frame: 4.398439000 seconds]
    Frame Number: 116
    Frame Length: 294 bytes (2352 bits)
    Capture Length: 294 bytes (2352 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp:http]
    [Coloring Rule Name: HTTP]
    [Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: Routerbo_eb:56:c3 (08:55:31:eb:56:c3), Dst: Micro-St_06:51:9e (00:d8:61:06:51:9e)
  Destination: Micro-St_06:51:9e (00:d8:61:06:51:9e)
    Address: Micro-St_06:51:9e (00:d8:61:06:51:9e)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Source: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)
    Address: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)
      ....0. .... = LG bit: Globally unique address (factory default)
      ....0. .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.162.31.137
  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: 280
  Identification: 0x1b77 (7031)
  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: 49
  Protocol: TCP (6)
  Header Checksum: 0x8dba [validation disabled]
  [Header checksum status: Unverified]
  Source Address: 128.119.245.12
  Destination Address: 10.162.31.137
Transmission Control Protocol, Src Port: 80, Dst Port: 57111, Seq: 1, Ack: 585, Len: 240
  Source Port: 80
  Destination Port: 57111
  [Stream index: 6]
  [Conversation completeness: Incomplete (28)]
  [TCP Segment Len: 240]
  Sequence Number: 1 (relative sequence number)
  Sequence Number (raw): 1804408024
  [Next Sequence Number: 241 (relative sequence number)]
  Acknowledgment Number: 585 (relative ack number)
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Acknowledgment number (raw): 2932569762
0101 .... = Header Length: 20 bytes (5)
Flags: 0x018 (PSH, ACK)
  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: .....AP...]
Window: 238
[Calculated window size: 30464]
[Window size scaling factor: 128]
Checksum: 0xaa86 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
[Timestamps]
  [Time since first frame in this TCP stream: 0.360655000 seconds]
  [Time since previous frame in this TCP stream: 0.000268000 seconds]
[SEQ/ACK analysis]
  [Bytes in flight: 240]
  [Bytes sent since last PSH flag: 240]
TCP payload (240 bytes)
Hypertext Transfer Protocol
HTTP/1.1 304 Not Modified\r\n
  [Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]
  [HTTP/1.1 304 Not Modified\r\n]
  [Severity level: Chat]
  [Group: Sequence]
Response Version: HTTP/1.1
Status Code: 304
[Status Code Description: Not Modified]
Response Phrase: Not Modified
Date: Tue, 14 Feb 2023 00:50:32 GMT\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\n
Connection: Keep-Alive\r\n
Keep-Alive: timeout=5, max=100\r\n
ETag: "173-5f48f61cf3191"\r\n
\r\n
[HTTP response 1/1]
[Time since request: 0.024821000 seconds]
[Request in frame: 111]
[Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
No.      Time                Source                Destination           Protocol Length Info
267 2023-02-13 19:51:03.023756  10.162.31.137        128.119.245.12        HTTP      638    GET /wireshark-labs/HTTP-wireshark-file2.html
HTTP/1.1
Frame 267: 638 bytes on wire (5104 bits), 638 bytes captured (5104 bits) on interface \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}, id 0
  Section number: 1
  Interface id: 0 (\Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC})
    Interface name: \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}
    Interface description: Ethernet
  Encapsulation type: Ethernet (1)
  Arrival Time: Feb 13, 2023 19:51:03.023756000 Eastern Standard Time
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1676335863.023756000 seconds
  [Time delta from previous captured frame: 0.000676000 seconds]
  [Time delta from previous displayed frame: 29.441187000 seconds]
  [Time since reference or first frame: 33.839626000 seconds]
  Frame Number: 267
  Frame Length: 638 bytes (5104 bits)
  Capture Length: 638 bytes (5104 bits)
  [Frame is marked: False]
  [Frame is ignored: False]
  [Protocols in frame: eth:ethertype:ip:tcp:http]
  [Coloring Rule Name: HTTP]
  [Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: Micro-St_06:51:9e (00:d8:61:06:51:9e), Dst: Routerbo_0b:56:c3 (08:55:31:eb:56:c3)
  Destination: Routerbo_0b:56:c3 (08:55:31:eb:56:c3)
  Address: Routerbo_0b:56:c3 (08:55:31:eb:56:c3)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Source: Micro-St_06:51:9e (00:d8:61:06:51:9e)
  Address: Micro-St_06:51:9e (00:d8:61:06:51:9e)
    .... ..0. .... = LG bit: Globally unique address (factory default)
    .... ...0 .... = IG bit: Individual address (unicast)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 10.162.31.137, 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: 624
```

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Identification: 0x66e5 (26341)
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: 0x0000 [validation disabled]
[Header checksum status: Unverified]
Source Address: 10.162.31.137
Destination Address: 128.119.245.12
Transmission Control Protocol, Src Port: 57114, Dst Port: 80, Seq: 1, Ack: 1, Len: 584
Source Port: 57114
Destination Port: 80
[Stream index: 8]
[Conversation completeness: Complete, WITH_DATA (31)]
[TCP Segment Len: 584]
Sequence Number: 1 (relative sequence number)
Sequence Number (raw): 2136821031
[Next Sequence Number: 585 (relative sequence number)]
Acknowledgment Number: 1 (relative ack number)
Acknowledgment number (raw): 1567877228
0101 .... = Header Length: 20 bytes (5)
Flags: 0x018 (PSH, ACK)
    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: .....AP...]
Window: 1026
[Calculated window size: 262656]
[Window size scaling factor: 256]
Checksum: 0xa211 [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
[Timestamps]
    [Time since first frame in this TCP stream: 29.465102000 seconds]
    [Time since previous frame in this TCP stream: 29.441758000 seconds]
[SEQ/ACK analysis]
    [iRTT: 0.023344000 seconds]
    [Bytes in flight: 584]
    [Bytes sent since last PSH flag: 584]
TCP payload (584 bytes)
Hypertext Transfer Protocol
GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
[Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
    [GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
    [Severity level: Chat]
    [Group: Sequence]
Request Method: GET
Request URI: /wireshark-labs/HTTP-wireshark-file2.html
Request Version: HTTP/1.1
Host: gaia.cs.umass.edu\r\n
Connection: keep-alive\r\n
Cache-Control: max-age=0\r\n
Upgrade-Insecure-Requests: 1\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.0.0 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,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: en-US,en;q=0.9\r\n
If-None-Match: "173-5f48f61cf3191"\r\n
If-Modified-Since: Mon, 13 Feb 2023 06:59:02 GMT\r\n
\r\n
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
[HTTP request 1/1]
[Response in frame: 271]
No.      Time                Source                Destination          Protocol Length Info
 271 2023-02-13 19:51:03.047311 128.119.245.12      10.162.31.137      HTTP      294      HTTP/1.1 304 Not Modified
Frame 271: 294 bytes on wire (2352 bits), 294 bytes captured (2352 bits) on interface \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}, id 0
  Section number: 1
  Interface id: 0 (\Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC})
    Interface name: \Device\NPF_{1DD7923C-13AB-467D-9439-E2A4D71AF3BC}
    Interface description: Ethernet
  Encapsulation type: Ethernet (1)
  Arrival Time: Feb 13, 2023 19:51:03.047311000 Eastern Standard Time
  [Time shift for this packet: 0.000000000 seconds]
  Epoch Time: 1676335863.047311000 seconds
  [Time delta from previous captured frame: 0.000434000 seconds]
  [Time delta from previous displayed frame: 0.023555000 seconds]
```

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[Time since reference or first frame: 33.863181000 seconds]
Frame Number: 271
Frame Length: 294 bytes (2352 bits)
Capture Length: 294 bytes (2352 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ip:tcp:http]
[Coloring Rule Name: HTTP]
[Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: Routerbo_eb:56:c3 (08:55:31:eb:56:c3), Dst: Micro-St_06:51:9e (00:d8:61:06:51:9e)
Destination: Micro-St_06:51:9e (00:d8:61:06:51:9e)
Address: Micro-St_06:51:9e (00:d8:61:06:51:9e)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Source: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)
Address: Routerbo_eb:56:c3 (08:55:31:eb:56:c3)
.... 0. .... = LG bit: Globally unique address (factory default)
.... 0. .... = IG bit: Individual address (unicast)
Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.162.31.137
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)
.... 0.0 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
Total Length: 280
Identification: 0x6c7b (27771)
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: 48
Protocol: TCP (6)
Header Checksum: 0x3db6 [validation disabled]
[Header checksum status: Unverified]
Source Address: 128.119.245.12
Destination Address: 10.162.31.137
Transmission Control Protocol, Src Port: 80, Dst Port: 57114, Seq: 1, Ack: 585, Len: 240
Source Port: 80
Destination Port: 57114
[Stream index: 8]
[Conversation completeness: Complete, WITH_DATA (31)]
[TCP Segment Len: 240]
Sequence Number: 1 (relative sequence number)
Sequence Number (raw): 1567877228
[Next Sequence Number: 241 (relative sequence number)]
Acknowledgment Number: 585 (relative ack number)
Acknowledgment number (raw): 2136821615
0101 .... = Header Length: 20 bytes (5)
Flags: 0x018 (PSH, ACK)
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: .....AP...]
Window: 238
[Calculated window size: 30464]
[Window size scaling factor: 128]
Checksum: 0x3dab [unverified]
[Checksum Status: Unverified]
Urgent Pointer: 0
[Timestamps]
[Time since first frame in this TCP stream: 29.488657000 seconds]
[Time since previous frame in this TCP stream: 0.000434000 seconds]
[SEQ/ACK analysis]
[iRTT: 0.023344000 seconds]
[Bytes in flight: 240]
[Bytes sent since last PSH flag: 240]
TCP payload (240 bytes)
Hypertext Transfer Protocol
HTTP/1.1 304 Not Modified\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 304 Not Modified\r\n]
[HTTP/1.1 304 Not Modified\r\n]
[Severity level: Chat]
[Group: Sequence]
Response Version: HTTP/1.1
Status Code: 304
[Status Code Description: Not Modified]
Response Phrase: Not Modified
Date: Tue, 14 Feb 2023 00:51:01 GMT\r\n
```

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\n
Connection: Keep-Alive\r\n
Keep-Alive: timeout=5, max=100\r\n
ETag: "173-5f48f61cf3191"\r\n
\r\n
[HTTP response 1/1]
[Time since request: 0.023555000 seconds]
[Request in frame: 267]
[Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]