```
No.       Time           Source                Destination           Protocol Length Info
   1020 25.073181      10.122.205.2          128.119.245.12        HTTP     566    GET /wireshark-labs/HTTP-wireshark-
file2.html HTTP/1.1
Frame 1020: 566 bytes on wire (4528 bits), 566 bytes captured (4528 bits) on interface \Device\NPF_{E86A0AD6-
BF88-4FDE-94F9-A7531B9ADD93}, id 0
    Section number: 1
    Interface id: 0 (\Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93})
        Interface name: \Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar  3, 2023 13:08:58.625908000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1677820138.625908000 seconds
    [Time delta from previous captured frame: 0.000492000 seconds]
    [Time delta from previous displayed frame: 0.000000000 seconds]
    [Time since reference or first frame: 25.073181000 seconds]
    Frame Number: 1020
    Frame Length: 566 bytes (4528 bits)
    Capture Length: 566 bytes (4528 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: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27), Dst: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
    Destination: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        Address: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        Address: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 10.122.205.2, 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: 552
    Identification: 0x9531 (38193)
    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: 10.122.205.2
    Destination Address: 128.119.245.12
Transmission Control Protocol, Src Port: 60456, Dst Port: 80, Seq: 1, Ack: 1, Len: 512
    Source Port: 60456
    Destination Port: 80
    [Stream index: 12]
    [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 512]
    Sequence Number: 1    (relative sequence number)
    Sequence Number (raw): 1487560362
    [Next Sequence Number: 513    (relative sequence number)]
    Acknowledgment Number: 1    (relative ack number)
    Acknowledgment number (raw): 2676054218
    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: 512
    [Calculated window size: 131072]
    [Window size scaling factor: 256]
    Checksum: 0x4f1b [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
    [Timestamps]
        [Time since first frame in this TCP stream: 0.273891000 seconds]
        [Time since previous frame in this TCP stream: 0.000558000 seconds]
    [SEQ/ACK analysis]
        [iRTT: 0.273333000 seconds]
        [Bytes in flight: 512]
        [Bytes sent since last PSH flag: 512]
    TCP payload (512 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
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0
Safari/537.36 Edg/110.0.1587.57\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=0.7\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: zh-CN,zh;q=0.9,en-US;q=0.8,en;q=0.7,en-GB;q=0.6\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
    [HTTP request 1/2]
    [Response in frame: 1064]
    [Next request in frame: 1111]
No.     Time            Source               Destination           Protocol Length Info
   1064 25.345352       128.119.245.12       10.122.205.2          HTTP     784    HTTP/1.1 200 OK  (text/html)
Frame 1064: 784 bytes on wire (6272 bits), 784 bytes captured (6272 bits) on interface \Device\NPF_{E86A0AD6-
BF88-4FDE-94F9-A7531B9ADD93}, id 0
    Section number: 1
    Interface id: 0 (\Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93})
        Interface name: \Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar  3, 2023 13:08:58.898079000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1677820138.898079000 seconds
    [Time delta from previous captured frame: 0.000331000 seconds]
    [Time delta from previous displayed frame: 0.272171000 seconds]
    [Time since reference or first frame: 25.345352000 seconds]
    Frame Number: 1064
    Frame Length: 784 bytes (6272 bits)
    Capture Length: 784 bytes (6272 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp:http:data-text-lines]
    [Coloring Rule Name: HTTP]
    [Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00), Dst: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
    Destination: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        Address: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        Address: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        .... ..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: 10.122.205.2
    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: 770
    Identification: 0x9a5e (39518)
    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: 35
    Protocol: TCP (6)
    Header Checksum: 0x6d97 [validation disabled]
    [Header checksum status: Unverified]
    Source Address: 128.119.245.12
    Destination Address: 10.122.205.2
Transmission Control Protocol, Src Port: 80, Dst Port: 60456, Seq: 1, Ack: 513, Len: 730
    Source Port: 80
    Destination Port: 60456
    [Stream index: 12]
    [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 730]
    Sequence Number: 1      (relative sequence number)
    Sequence Number (raw): 2676054218
    [Next Sequence Number: 731      (relative sequence number)]
    Acknowledgment Number: 513      (relative ack number)
    Acknowledgment number (raw): 1487560874
    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: 237
    [Calculated window size: 30336]
    [Window size scaling factor: 128]
    Checksum: 0x34ea [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
    [Timestamps]
        [Time since first frame in this TCP stream: 0.546062000 seconds]
        [Time since previous frame in this TCP stream: 0.000331000 seconds]
    [SEQ/ACK analysis]
        [iRTT: 0.273333000 seconds]
        [Bytes in flight: 730]
        [Bytes sent since last PSH flag: 730]
    TCP payload (730 bytes)
Hypertext Transfer Protocol
    HTTP/1.1 200 OK\r\n
        [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
            [HTTP/1.1 200 OK\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Response Version: HTTP/1.1
        Status Code: 200
        [Status Code Description: OK]
        Response Phrase: OK
    Date: Fri, 03 Mar 2023 05:08:57 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
    Last-Modified: Thu, 02 Mar 2023 06:59:01 GMT\r\n
    ETag: "173-5f5e55d14b27d"\r\n
    Accept-Ranges: bytes\r\n
    Content-Length: 371\r\n
        [Content length: 371]
    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: 0.272171000 seconds]
    [Request in frame: 1020]
    [Next request in frame: 1111]
```

[Next response in frame: 1185]
        [Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
        File Data: 371 bytes
Line-based text data: text/html (10 lines)
        \n
        <html>\n
        \n
        Congratulations again! Now you've downloaded the file lab2-2.html.
\n
        This file's last modification date will not change. <p>\n
        Thus if you download this multiple times on your browser, a complete copy
\n
        will only be sent once by the server due to the inclusion of the IN-MODIFIED-SINCE
\n
        field in your browser's HTTP GET request to the server.\n
        \n
        </html>\n
No.   Time   Source   Destination   Protocol Length Info
   1111 25.680604   10.122.205.2   128.119.245.12   HTTP   512   GET /favicon.ico HTTP/1.1
Frame 1111: 512 bytes on wire (4096 bits), 512 bytes captured (4096 bits) on interface \Device\NPF_{E86A0AD6-
BF88-4FDE-94F9-A7531B9ADD93}, id 0
        Section number: 1
        Interface id: 0 (\Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93})
            Interface name: \Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93}
            Interface description: WLAN
        Encapsulation type: Ethernet (1)
        Arrival Time: Mar 3, 2023 13:08:59.233331000 中国标准时间
        [Time shift for this packet: 0.000000000 seconds]
        Epoch Time: 1677820139.233331000 seconds
        [Time delta from previous captured frame: 0.065165000 seconds]
        [Time delta from previous displayed frame: 0.335252000 seconds]
        [Time since reference or first frame: 25.680604000 seconds]
        Frame Number: 1111
        Frame Length: 512 bytes (4096 bits)
        Capture Length: 512 bytes (4096 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: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27), Dst: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
    Destination: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        Address: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        ....0 .... = IG bit: Individual address (unicast)
    Source: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        Address: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        .... ..0. .... = LG bit: Globally unique address (factory default)
        ....0 .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 10.122.205.2, 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: 498
    Identification: 0x9534 (38196)
    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: 10.122.205.2
    Destination Address: 128.119.245.12
Transmission Control Protocol, Src Port: 60456, Dst Port: 80, Seq: 513, Ack: 731, Len: 458
    Source Port: 60456
    Destination Port: 80
    [Stream index: 12]
    [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 458]
    Sequence Number: 513   (relative sequence number)
    Sequence Number (raw): 1487560874
    [Next Sequence Number: 971   (relative sequence number)]
    Acknowledgment Number: 731   (relative ack number)
    Acknowledgment number (raw): 2676054948

```
    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: 510
    [Calculated window size: 130560]
    [Window size scaling factor: 256]
    Checksum: 0x4ee5 [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
    [Timestamps]
        [Time since first frame in this TCP stream: 0.881314000 seconds]
        [Time since previous frame in this TCP stream: 0.295272000 seconds]
    [SEQ/ACK analysis]
        [iRTT: 0.273333000 seconds]
        [Bytes in flight: 458]
        [Bytes sent since last PSH flag: 458]
    TCP payload (458 bytes)
Hypertext Transfer Protocol
    GET /favicon.ico HTTP/1.1\r\n
        [Expert Info (Chat/Sequence): GET /favicon.ico HTTP/1.1\r\n]
            [GET /favicon.ico HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Request Method: GET
        Request URI: /favicon.ico
        Request Version: HTTP/1.1
    Host: gaia.cs.umass.edu\r\n
    Connection: keep-alive\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/110.0.0.0
Safari/537.36 Edg/110.0.1587.57\r\n
    Accept: image/webp,image/apng,image/svg+xml,image/*,*/*;q=0.8\r\n
    Referer: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: zh-CN,zh;q=0.9,en-US;q=0.8,en;q=0.7,en-GB;q=0.6\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/favicon.ico]
    [HTTP request 2/2]
    [Prev request in frame: 1020]
    [Response in frame: 1185]
No.      Time           Source                Destination           Protocol Length Info
   1185 25.957574      128.119.245.12        10.122.205.2          HTTP     538    HTTP/1.1 404 Not Found  (text/html)
Frame 1185: 538 bytes on wire (4304 bits), 538 bytes captured (4304 bits) on interface \Device\NPF_{E86A0AD6-
BF88-4FDE-94F9-A7531B9ADD93}, id 0
    Section number: 1
    Interface id: 0 (\Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93})
        Interface name: \Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar  3, 2023 13:08:59.510301000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1677820139.510301000 seconds
    [Time delta from previous captured frame: 0.000147000 seconds]
    [Time delta from previous displayed frame: 0.276970000 seconds]
    [Time since reference or first frame: 25.957574000 seconds]
    Frame Number: 1185
    Frame Length: 538 bytes (4304 bits)
    Capture Length: 538 bytes (4304 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp:http:data-text-lines]
    [Coloring Rule Name: HTTP]
    [Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00), Dst: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
    Destination: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        Address: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
```

```
                 .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
        Source: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
            Address: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
            .... ..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: 10.122.205.2
        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: 524
        Identification: 0x9a5f (39519)
        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: 35
        Protocol: TCP (6)
        Header Checksum: 0x6e8c [validation disabled]
        [Header checksum status: Unverified]
        Source Address: 128.119.245.12
        Destination Address: 10.122.205.2
Transmission Control Protocol, Src Port: 80, Dst Port: 60456, Seq: 731, Ack: 971, Len: 484
        Source Port: 80
        Destination Port: 60456
        [Stream index: 12]
        [Conversation completeness: Complete, WITH_DATA (31)]
        [TCP Segment Len: 484]
        Sequence Number: 731      (relative sequence number)
        Sequence Number (raw): 2676054948
        [Next Sequence Number: 1215     (relative sequence number)]
        Acknowledgment Number: 971     (relative ack number)
        Acknowledgment number (raw): 1487561332
        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: 245
        [Calculated window size: 31360]
        [Window size scaling factor: 128]
        Checksum: 0x558d [unverified]
        [Checksum Status: Unverified]
        Urgent Pointer: 0
        [Timestamps]
            [Time since first frame in this TCP stream: 1.158284000 seconds]
            [Time since previous frame in this TCP stream: 0.276970000 seconds]
        [SEQ/ACK analysis]
            [This is an ACK to the segment in frame: 1111]
            [The RTT to ACK the segment was: 0.276970000 seconds]
            [iRTT: 0.273333000 seconds]
            [Bytes in flight: 484]
            [Bytes sent since last PSH flag: 484]
        TCP payload (484 bytes)
Hypertext Transfer Protocol
    HTTP/1.1 404 Not Found\r\n
        [Expert Info (Chat/Sequence): HTTP/1.1 404 Not Found\r\n]
            [HTTP/1.1 404 Not Found\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Response Version: HTTP/1.1
        Status Code: 404
        [Status Code Description: Not Found]
        Response Phrase: Not Found
    Date: Fri, 03 Mar 2023 05:08:57 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
```

```
    Content-Length: 209\r\n
        [Content length: 209]
    Keep-Alive: timeout=5, max=99\r\n
    Connection: Keep-Alive\r\n
    Content-Type: text/html; charset=iso-8859-1\r\n
    \r\n
    [HTTP response 2/2]
    [Time since request: 0.276970000 seconds]
    [Prev request in frame: 1020]
    [Prev response in frame: 1064]
    [Request in frame: 1111]
    [Request URI: http://gaia.cs.umass.edu/favicon.ico]
    File Data: 209 bytes
Line-based text data: text/html (7 lines)
    <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\n
    <html><head>\n
    <title>404 Not Found</title>\n
    </head><body>\n
    <h1>Not Found</h1>\n
    <p>The requested URL /favicon.ico was not found on this server.</p>\n
    </body></html>\n
No.     Time          Source               Destination         Protocol Length Info
   1798 36.724527     10.122.205.2         128.119.245.12      HTTP     678    GET /wireshark-labs/HTTP-wireshark-
file2.html HTTP/1.1
Frame 1798: 678 bytes on wire (5424 bits), 678 bytes captured (5424 bits) on interface \Device\NPF_{E86A0AD6-
BF88-4FDE-94F9-A7531B9ADD93}, id 0
    Section number: 1
    Interface id: 0 (\Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93})
        Interface name: \Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar  3, 2023 13:09:10.277254000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1677820150.277254000 seconds
    [Time delta from previous captured frame: 0.004413000 seconds]
    [Time delta from previous displayed frame: 10.766953000 seconds]
    [Time since reference or first frame: 36.724527000 seconds]
    Frame Number: 1798
    Frame Length: 678 bytes (5424 bits)
    Capture Length: 678 bytes (5424 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: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27), Dst: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
    Destination: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        Address: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        Address: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 10.122.205.2, 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: 664
    Identification: 0x9538 (38200)
    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: 10.122.205.2
    Destination Address: 128.119.245.12
Transmission Control Protocol, Src Port: 60457, Dst Port: 80, Seq: 1, Ack: 1, Len: 624
    Source Port: 60457
```

Destination Port: 80
        [Stream index: 13]
        [Conversation completeness: Complete, WITH_DATA (31)]
        [TCP Segment Len: 624]
        Sequence Number: 1   (relative sequence number)
        Sequence Number (raw): 1843240679
        [Next Sequence Number: 625   (relative sequence number)]
        Acknowledgment Number: 1   (relative ack number)
        Acknowledgment number (raw): 2782947889
        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: 512
        [Calculated window size: 131072]
        [Window size scaling factor: 256]
        Checksum: 0x4f8b [unverified]
        [Checksum Status: Unverified]
        Urgent Pointer: 0
        [Timestamps]
            [Time since first frame in this TCP stream: 11.924380000 seconds]
            [Time since previous frame in this TCP stream: 11.651838000 seconds]
        [SEQ/ACK analysis]
            [iRTT: 0.272542000 seconds]
            [Bytes in flight: 624]
            [Bytes sent since last PSH flag: 624]
        TCP payload (624 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/110.0.0.0
Safari/537.36 Edg/110.0.1587.57\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=0.7\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: zh-CN,zh;q=0.9,en-US;q=0.8,en;q=0.7,en-GB;q=0.6\r\n
    If-None-Match: "173-5f5e55d14b27d"\r\n
    If-Modified-Since: Thu, 02 Mar 2023 06:59:01 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: 1803]
No.   Time   Source   Destination   Protocol Length Info
   1803 37.001065   128.119.245.12   10.122.205.2   HTTP   294   HTTP/1.1 304 Not Modified
Frame 1803: 294 bytes on wire (2352 bits), 294 bytes captured (2352 bits) on interface \Device\NPF_{E86A0AD6-
BF88-4FDE-94F9-A7531B9ADD93}, id 0
    Section number: 1
    Interface id: 0 (\Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93})
        Interface name: \Device\NPF_{E86A0AD6-BF88-4FDE-94F9-A7531B9ADD93}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Mar 3, 2023 13:09:10.553792000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1677820150.553792000 seconds
    [Time delta from previous captured frame: 0.000183000 seconds]
    [Time delta from previous displayed frame: 0.276538000 seconds]
    [Time since reference or first frame: 37.001065000 seconds]

```
        Frame Number: 1803
        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: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00), Dst: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
        Destination: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
            Address: IntelCor_29:5a:27 (f0:9e:4a:29:5a:27)
            .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
            .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
        Source: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
            Address: ArubaaHe_6c:24:00 (10:4f:58:6c:24:00)
            .... ..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: 10.122.205.2
        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: 0x9a30 (39472)
        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: 35
        Protocol: TCP (6)
        Header Checksum: 0x6faf [validation disabled]
        [Header checksum status: Unverified]
        Source Address: 128.119.245.12
        Destination Address: 10.122.205.2
Transmission Control Protocol, Src Port: 80, Dst Port: 60457, Seq: 1, Ack: 625, Len: 240
        Source Port: 80
        Destination Port: 60457
        [Stream index: 13]
        [Conversation completeness: Complete, WITH_DATA (31)]
        [TCP Segment Len: 240]
        Sequence Number: 1      (relative sequence number)
        Sequence Number (raw): 2782947889
        [Next Sequence Number: 241      (relative sequence number)]
        Acknowledgment Number: 625      (relative ack number)
        Acknowledgment number (raw): 1843241303
        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: 0x7376 [unverified]
        [Checksum Status: Unverified]
        Urgent Pointer: 0
        [Timestamps]
            [Time since first frame in this TCP stream: 12.200918000 seconds]
            [Time since previous frame in this TCP stream: 0.000183000 seconds]
        [SEQ/ACK analysis]
            [iRTT: 0.272542000 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: Fri, 03 Mar 2023 05:09:08 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: "173-5f5e55d14b27d"\r\n
    \r\n
    [HTTP response 1/1]
    [Time since request: 0.276538000 seconds]
    [Request in frame: 1798]
    [Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]