```
No.       Time              Source                Destination            Protocol Length Info
     353 18:52:10.755836    192.168.43.195        128.119.245.12         HTTP     528    GET /wireshark-labs/
protected_pages/HTTP-wireshark-file5.html HTTP/1.1
Frame 353: 528 bytes on wire (4224 bits), 528 bytes captured (4224 bits) on interface 0
    Interface id: 0 (\Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6})
        Interface name: \Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Sep 24, 2019 18:52:10.755836000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1569322330.755836000 seconds
    [Time delta from previous captured frame: 0.000243000 seconds]
    [Time delta from previous displayed frame: 0.000000000 seconds]
    [Time since reference or first frame: 9.792872000 seconds]
    Frame Number: 353
    Frame Length: 528 bytes (4224 bits)
    Capture Length: 528 bytes (4224 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: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f), Dst: HuaweiTe_71:75:74 (30:74:96:71:75:74)
    Destination: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        Address: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        Address: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.43.195, 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: 514
    Identification: 0x8f85 (36741)
    Flags: 0x4000, 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: 0x0781 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.43.195
    Destination: 128.119.245.12
Transmission Control Protocol, Src Port: 54654 (54654), Dst Port: http (80), Seq: 1, Ack: 1, Len: 474
    Source Port: 54654 (54654)
    Destination Port: http (80)
    [Stream index: 16]
    [TCP Segment Len: 474]
    Sequence number: 1      (relative sequence number)
    [Next sequence number: 475    (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: 260
    [Calculated window size: 66560]
    [Window size scaling factor: 256]
    Checksum: 0x3380 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [SEQ/ACK analysis]
```

```
        [iRTT: 0.261507000 seconds]
        [Bytes in flight: 474]
        [Bytes sent since last PSH flag: 474]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.261750000 seconds]
        [Time since previous frame in this TCP stream: 0.000243000 seconds]
    TCP payload (474 bytes)
Hypertext Transfer Protocol
    GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n
        [Expert Info (Chat/Sequence): GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n]
            [GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Request Method: GET
        Request URI: /wireshark-labs/protected_pages/HTTP-wireshark-file5.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/
77.0.3865.90 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/
signed-exchange;v=b3\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: zh-CN,zh;q=0.9\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
    [HTTP request 1/1]
    [Response in frame: 359]
No.      Time                  Source                Destination           Protocol Length Info
    359 18:52:11.039485      128.119.245.12        192.168.43.195        HTTP     771     HTTP/1.1 401 Unauthorized
(text/html)
Frame 359: 771 bytes on wire (6168 bits), 771 bytes captured (6168 bits) on interface 0
    Interface id: 0 (\Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6})
        Interface name: \Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Sep 24, 2019 18:52:11.039485000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1569322331.039485000 seconds
    [Time delta from previous captured frame: 0.012333000 seconds]
    [Time delta from previous displayed frame: 0.283649000 seconds]
    [Time since reference or first frame: 10.076521000 seconds]
    Frame Number: 359
    Frame Length: 771 bytes (6168 bits)
    Capture Length: 771 bytes (6168 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: HuaweiTe_71:75:74 (30:74:96:71:75:74), Dst: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
    Destination: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        Address: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        Address: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        .... ..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: 192.168.43.195
    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: 757
    Identification: 0x9381 (37761)
    Flags: 0x4000, 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: 47
    Protocol: TCP (6)
    Header checksum: 0x5392 [validation disabled]
    [Header checksum status: Unverified]
    Source: 128.119.245.12
```

```
    Destination: 192.168.43.195
Transmission Control Protocol, Src Port: http (80), Dst Port: 54654 (54654), Seq: 1, Ack: 475, Len: 717
    Source Port: http (80)
    Destination Port: 54654 (54654)
    [Stream index: 16]
    [TCP Segment Len: 717]
    Sequence number: 1    (relative sequence number)
    [Next sequence number: 718    (relative sequence number)]
    Acknowledgment number: 475    (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: 237
    [Calculated window size: 30336]
    [Window size scaling factor: 128]
    Checksum: 0xb492 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [SEQ/ACK analysis]
        [iRTT: 0.261507000 seconds]
        [Bytes in flight: 717]
        [Bytes sent since last PSH flag: 717]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.545399000 seconds]
        [Time since previous frame in this TCP stream: 0.012333000 seconds]
    TCP payload (717 bytes)
Hypertext Transfer Protocol
    HTTP/1.1 401 Unauthorized\r\n
        [Expert Info (Chat/Sequence): HTTP/1.1 401 Unauthorized\r\n]
            [HTTP/1.1 401 Unauthorized\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Response Version: HTTP/1.1
        Status Code: 401
        [Status Code Description: Unauthorized]
        Response Phrase: Unauthorized
    Date: Tue, 24 Sep 2019 10:52:10 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n
    WWW-Authenticate: Basic realm="wireshark-students only"\r\n
    Content-Length: 381\r\n
        [Content length: 381]
    Keep-Alive: timeout=5, max=100\r\n
    Connection: Keep-Alive\r\n
    Content-Type: text/html; charset=iso-8859-1\r\n
    \r\n
    [HTTP response 1/1]
    [Time since request: 0.283649000 seconds]
    [Request in frame: 353]
    [Request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
    File Data: 381 bytes
Line-based text data: text/html (12 lines)
    <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">\n
    <html><head>\n
    <title>401 Unauthorized</title>\n
    </head><body>\n
    <h1>Unauthorized</h1>\n
    <p>This server could not verify that you\n
    are authorized to access the document\n
    requested.  Either you supplied the wrong\n
    credentials (e.g., bad password), or your\n
    browser doesn't understand how to supply\n
    the credentials required.</p>\n
    </body></html>\n
No.    Time            Source              Destination          Protocol Length Info
    519 18:52:45.208116    192.168.43.195        128.119.245.12        HTTP     587    GET /wireshark-labs/
protected_pages/HTTP-wireshark-file5.html HTTP/1.1
Frame 519: 587 bytes on wire (4696 bits), 587 bytes captured (4696 bits) on interface 0
    Interface id: 0 (\Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6})
        Interface name: \Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6}
```

```
        Interface description: WLAN
        Encapsulation type: Ethernet (1)
        Arrival Time: Sep 24, 2019 18:52:45.208116000 中国标准时间
        [Time shift for this packet: 0.000000000 seconds]
        Epoch Time: 1569322365.208116000 seconds
        [Time delta from previous captured frame: 0.000228000 seconds]
        [Time delta from previous displayed frame: 34.168631000 seconds]
        [Time since reference or first frame: 44.245152000 seconds]
        Frame Number: 519
        Frame Length: 587 bytes (4696 bits)
        Capture Length: 587 bytes (4696 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: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f), Dst: HuaweiTe_71:75:74 (30:74:96:71:75:74)
    Destination: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        Address: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        Address: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.43.195, 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: 573
    Identification: 0x8f92 (36754)
    Flags: 0x4000, 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: 0x0739 [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.43.195
    Destination: 128.119.245.12
Transmission Control Protocol, Src Port: 54682 (54682), Dst Port: http (80), Seq: 1, Ack: 1, Len: 533
    Source Port: 54682 (54682)
    Destination Port: http (80)
    [Stream index: 52]
    [TCP Segment Len: 533]
    Sequence number: 1    (relative sequence number)
    [Next sequence number: 534    (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: 260
    [Calculated window size: 66560]
    [Window size scaling factor: 256]
    Checksum: 0x4342 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [SEQ/ACK analysis]
        [iRTT: 0.272526000 seconds]
        [Bytes in flight: 533]
        [Bytes sent since last PSH flag: 533]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.272754000 seconds]
        [Time since previous frame in this TCP stream: 0.000228000 seconds]
```

```
    TCP payload (533 bytes)
Hypertext Transfer Protocol
    GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n
        [Expert Info (Chat/Sequence): GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n]
            [GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n]
            [Severity level: Chat]
            [Group: Sequence]
        Request Method: GET
        Request URI: /wireshark-labs/protected_pages/HTTP-wireshark-file5.html
        Request Version: HTTP/1.1
    Host: gaia.cs.umass.edu\r\n
    Connection: keep-alive\r\n
    Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\r\n
        Credentials: wireshark-students:network
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
77.0.3865.90 Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/
signed-exchange;v=b3\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: zh-CN,zh;q=0.9\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
    [HTTP request 1/2]
    [Response in frame: 523]
    [Next request in frame: 525]
No.      Time                 Source                 Destination            Protocol Length Info
    523  18:52:45.491665      128.119.245.12         192.168.43.195         HTTP     544    HTTP/1.1 200 OK  (text/
html)
Frame 523: 544 bytes on wire (4352 bits), 544 bytes captured (4352 bits) on interface 0
    Interface id: 0 (\Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6})
        Interface name: \Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Sep 24, 2019 18:52:45.491665000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1569322365.491665000 seconds
    [Time delta from previous captured frame: 0.000000000 seconds]
    [Time delta from previous displayed frame: 0.283549000 seconds]
    [Time since reference or first frame: 44.528701000 seconds]
    Frame Number: 523
    Frame Length: 544 bytes (4352 bits)
    Capture Length: 544 bytes (4352 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: HuaweiTe_71:75:74 (30:74:96:71:75:74), Dst: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
    Destination: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        Address: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        Address: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        .... ..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: 192.168.43.195
    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: 530
    Identification: 0x547c (21628)
    Flags: 0x4000, 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: 46
    Protocol: TCP (6)
    Header checksum: 0x947a [validation disabled]
    [Header checksum status: Unverified]
    Source: 128.119.245.12
    Destination: 192.168.43.195
Transmission Control Protocol, Src Port: http (80), Dst Port: 54682 (54682), Seq: 1, Ack: 534, Len: 490
    Source Port: http (80)
```

Destination Port: 54682 (54682)
        [Stream index: 52]
        [TCP Segment Len: 490]
        Sequence number: 1   (relative sequence number)
        [Next sequence number: 491   (relative sequence number)]
        Acknowledgment number: 534   (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: 237
        [Calculated window size: 30336]
        [Window size scaling factor: 128]
        Checksum: 0x5bb5 [unverified]
        [Checksum Status: Unverified]
        Urgent pointer: 0
        [SEQ/ACK analysis]
            [iRTT: 0.272526000 seconds]
            [Bytes in flight: 490]
            [Bytes sent since last PSH flag: 490]
        [Timestamps]
            [Time since first frame in this TCP stream: 0.556303000 seconds]
            [Time since previous frame in this TCP stream: 0.000000000 seconds]
        TCP payload (490 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: Tue, 24 Sep 2019 10:52:44 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n
    Last-Modified: Tue, 24 Sep 2019 05:59:01 GMT\r\n
    ETag: "84-593463baf8fec"\r\n
    Accept-Ranges: bytes\r\n
    Content-Length: 132\r\n
        [Content length: 132]
    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: 0.283549000 seconds]
    [Request in frame: 519]
    [Next request in frame: 525]
    [Next response in frame: 527]
    [Request URI: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html]
    File Data: 132 bytes
Line-based text data: text/html (6 lines)
    \n
    <html>\n
    \n
    This page is password protected! If you're seeing this, you've downloaded the page correctly
\n
    Congratulations!\n
    </html>
No.   Time   Source   Destination   Protocol Length Info
    525 18:52:45.564837   192.168.43.195   128.119.245.12   HTTP   466   GET /favicon.ico HTTP/1.1
Frame 525: 466 bytes on wire (3728 bits), 466 bytes captured (3728 bits) on interface 0
    Interface id: 0 (\Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6})
        Interface name: \Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Sep 24, 2019 18:52:45.564837000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1569322365.564837000 seconds
    [Time delta from previous captured frame: 0.031885000 seconds]

```
        [Time delta from previous displayed frame: 0.073172000 seconds]
        [Time since reference or first frame: 44.601873000 seconds]
    Frame Number: 525
    Frame Length: 466 bytes (3728 bits)
    Capture Length: 466 bytes (3728 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: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f), Dst: HuaweiTe_71:75:74 (30:74:96:71:75:74)
    Destination: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        Address: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        Address: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.43.195, 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: 452
    Identification: 0x8f95 (36757)
    Flags: 0x4000, 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: 0x07af [validation disabled]
    [Header checksum status: Unverified]
    Source: 192.168.43.195
    Destination: 128.119.245.12
Transmission Control Protocol, Src Port: 54682 (54682), Dst Port: http (80), Seq: 534, Ack: 491, Len: 412
    Source Port: 54682 (54682)
    Destination Port: http (80)
    [Stream index: 52]
    [TCP Segment Len: 412]
    Sequence number: 534     (relative sequence number)
    [Next sequence number: 946     (relative sequence number)]
    Acknowledgment number: 491     (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: 258
    [Calculated window size: 66048]
    [Window size scaling factor: 256]
    Checksum: 0xc231 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [SEQ/ACK analysis]
        [iRTT: 0.272526000 seconds]
        [Bytes in flight: 412]
        [Bytes sent since last PSH flag: 412]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.629475000 seconds]
        [Time since previous frame in this TCP stream: 0.031885000 seconds]
    TCP payload (412 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/
77.0.3865.90 Safari/537.36\r\n
    Accept: image/webp,image/apng,image/*,*/*;q=0.8\r\n
    Referer: http://gaia.cs.umass.edu/wireshark-labs/protected_pages/HTTP-wireshark-file5.html\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: zh-CN,zh;q=0.9\r\n
    \r\n
    [Full request URI: http://gaia.cs.umass.edu/favicon.ico]
    [HTTP request 2/2]
    [Prev request in frame: 519]
    [Response in frame: 527]
No.      Time                 Source               Destination          Protocol Length Info
    527 18:52:45.855525    128.119.245.12        192.168.43.195         HTTP      538    HTTP/1.1 404 Not Found
(text/html)
Frame 527: 538 bytes on wire (4304 bits), 538 bytes captured (4304 bits) on interface 0
    Interface id: 0 (\Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6})
        Interface name: \Device\NPF_{96E9BC2A-8628-4C36-83CF-6F1B909EFCD6}
        Interface description: WLAN
    Encapsulation type: Ethernet (1)
    Arrival Time: Sep 24, 2019 18:52:45.855525000 中国标准时间
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1569322365.855525000 seconds
    [Time delta from previous captured frame: 0.260770000 seconds]
    [Time delta from previous displayed frame: 0.290688000 seconds]
    [Time since reference or first frame: 44.892561000 seconds]
    Frame Number: 527
    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: HuaweiTe_71:75:74 (30:74:96:71:75:74), Dst: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
    Destination: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        Address: Cybertan_a3:2d:0f (c8:3d:d4:a3:2d:0f)
        .... ..0. .... .... .... .... = LG bit: Globally unique address (factory default)
        .... ...0 .... .... .... .... = IG bit: Individual address (unicast)
    Source: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        Address: HuaweiTe_71:75:74 (30:74:96:71:75:74)
        .... ..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: 192.168.43.195
    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: 0x547d (21629)
    Flags: 0x4000, 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: 46
    Protocol: TCP (6)
    Header checksum: 0x947f [validation disabled]
    [Header checksum status: Unverified]
    Source: 128.119.245.12
    Destination: 192.168.43.195
Transmission Control Protocol, Src Port: http (80), Dst Port: 54682 (54682), Seq: 491, Ack: 946, Len: 484
    Source Port: http (80)
    Destination Port: 54682 (54682)
    [Stream index: 52]
    [TCP Segment Len: 484]
    Sequence number: 491    (relative sequence number)
    [Next sequence number: 975    (relative sequence number)]
    Acknowledgment number: 946    (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: 245
      [Calculated window size: 31360]
      [Window size scaling factor: 128]
      Checksum: 0x7f1c [unverified]
      [Checksum Status: Unverified]
      Urgent pointer: 0
      [SEQ/ACK analysis]
          [This is an ACK to the segment in frame: 525]
          [The RTT to ACK the segment was: 0.290688000 seconds]
          [iRTT: 0.272526000 seconds]
          [Bytes in flight: 484]
          [Bytes sent since last PSH flag: 484]
      [Timestamps]
          [Time since first frame in this TCP stream: 0.920163000 seconds]
          [Time since previous frame in this TCP stream: 0.290688000 seconds]
      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: Tue, 24 Sep 2019 10:52:45 GMT\r\n
    Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 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: 0.290688000 seconds]
    [Prev request in frame: 519]
    [Prev response in frame: 523]
    [Request in frame: 525]
    [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
```