```
    21 53.714381660    128.119.245.12         10.11.157.115          HTTP      783    HTTP/1.1 401 Unauthorized  (text/html)
  Frame 21: 783 bytes on wire (6264 bits), 783 bytes captured (6264 bits) on interface 0
  Ethernet II, Src: Alcatel-_67:a4:81 (2c:fa:a2:67:a4:81), Dst: IntelCor_3f:83:e0 (e0:9d:31:3f:83:e0)
  Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.11.157.115
  Transmission Control Protocol, Src Port: 80, Dst Port: 47900, Seq: 1, Ack: 473, Len: 717
      Source Port: 80
      Destination Port: 47900
      [Stream index: 1]
      [TCP Segment Len: 717]
      Sequence number: 1     (relative sequence number)
      [Next sequence number: 718    (relative sequence number)]
      Acknowledgment number: 473    (relative ack number)
      1000 .... = Header Length: 32 bytes (8)
      Flags: 0x018 (PSH, ACK)
      Window size value: 235
      [Calculated window size: 30080]
      [Window size scaling factor: 128]
      Checksum: 0x9cc7 [unverified]
      [Checksum Status: Unverified]
      Urgent pointer: 0
      Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
      [SEQ/ACK analysis]
      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]
          Request Version: HTTP/1.1
          Status Code: 401
          [Status Code Description: Unauthorized]
          Response Phrase: Unauthorized
      Date: Thu, 25 Jan 2018 06:48:08 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
      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: 0.088814666 seconds]
      [Request in frame: 19]
      File Data: 381 bytes
  Line-based text data: text/html
```

18. 401 Unauthorized

```
    34 82.281530844   10.11.157.115          128.119.245.12          HTTP     597    GET /wireshark-labs/protected_pages/HTTP-
wireshark-file5.html HTTP/1.1
Frame 34: 597 bytes on wire (4776 bits), 597 bytes captured (4776 bits) on interface 0
Ethernet II, Src: IntelCor_3f:83:e0 (e0:9d:31:3f:83:e0), Dst: Alcatel-_67:a4:81 (2c:fa:a2:67:a4:81)
Internet Protocol Version 4, Src: 10.11.157.115, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 47902, Dst Port: 80, Seq: 1, Ack: 1, Len: 531
    Source Port: 47902
    Destination Port: 80
    [Stream index: 2]
    [TCP Segment Len: 531]
    Sequence number: 1     (relative sequence number)
    [Next sequence number: 532     (relative sequence number)]
    Acknowledgment number: 1     (relative ack number)
    1000 .... = Header Length: 32 bytes (8)
    Flags: 0x018 (PSH, ACK)
    Window size value: 229
    [Calculated window size: 29312]
    [Window size scaling factor: 128]
    Checksum: 0x3edb [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    Options: (12 bytes), No-Operation (NOP), No-Operation (NOP), Timestamps
    [SEQ/ACK analysis]
    TCP payload (531 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]
        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
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) QtWebEngine/5.10.0 Chrome/61.0.3163.140
Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8\r\n
    Accept-Language: en-US,en\r\n
    X-Do-Not-Track: 1\r\n
    DNT: 1\r\n
    Accept-Encoding: gzip, deflate\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: 36]
    [Next request in frame: 38]
```

19. It adds an authorization field