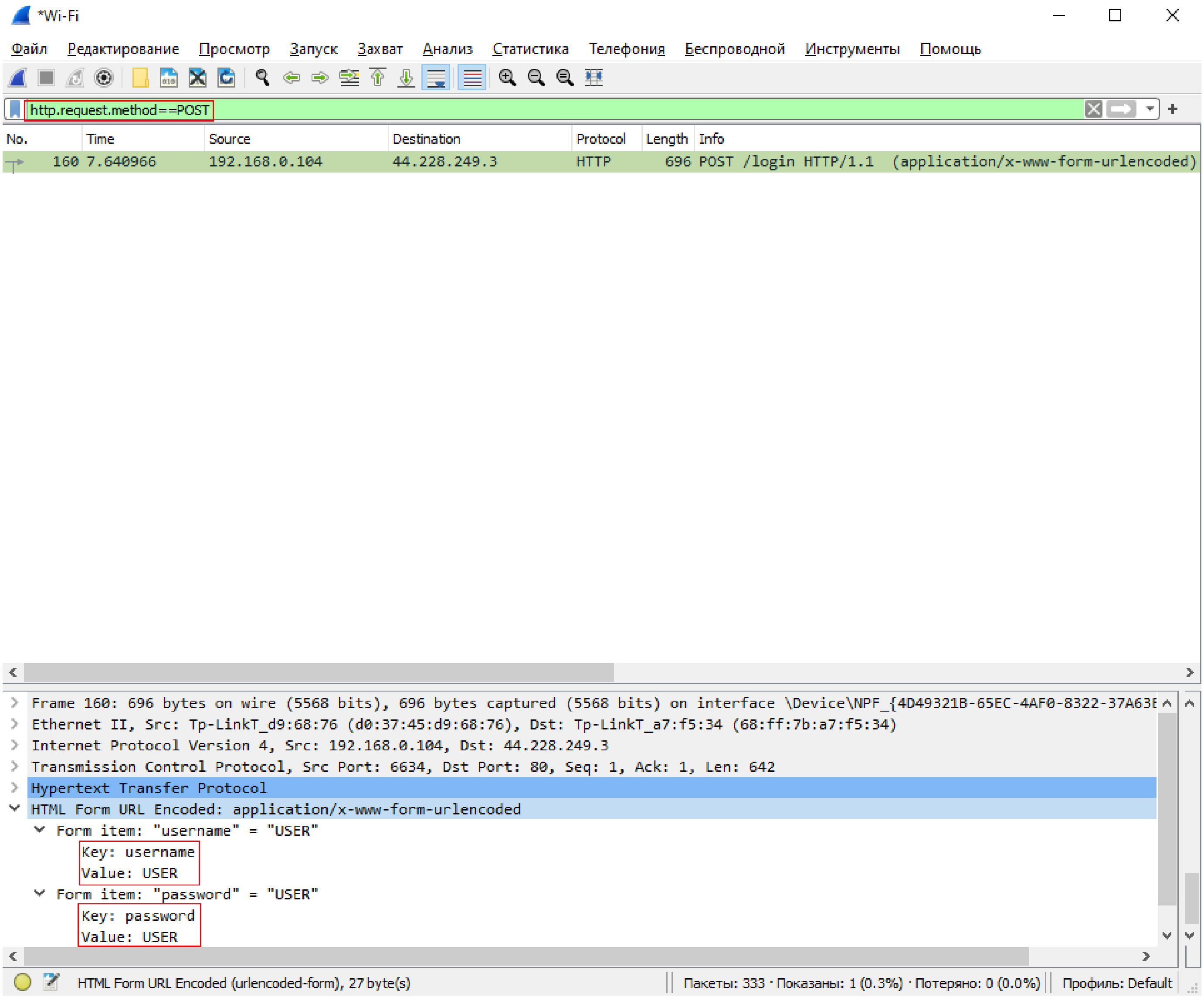
Wireshark

`ftp.request` - to view FTP traffic

`http.request.method==POST` - to view credentials submitted over HTTP

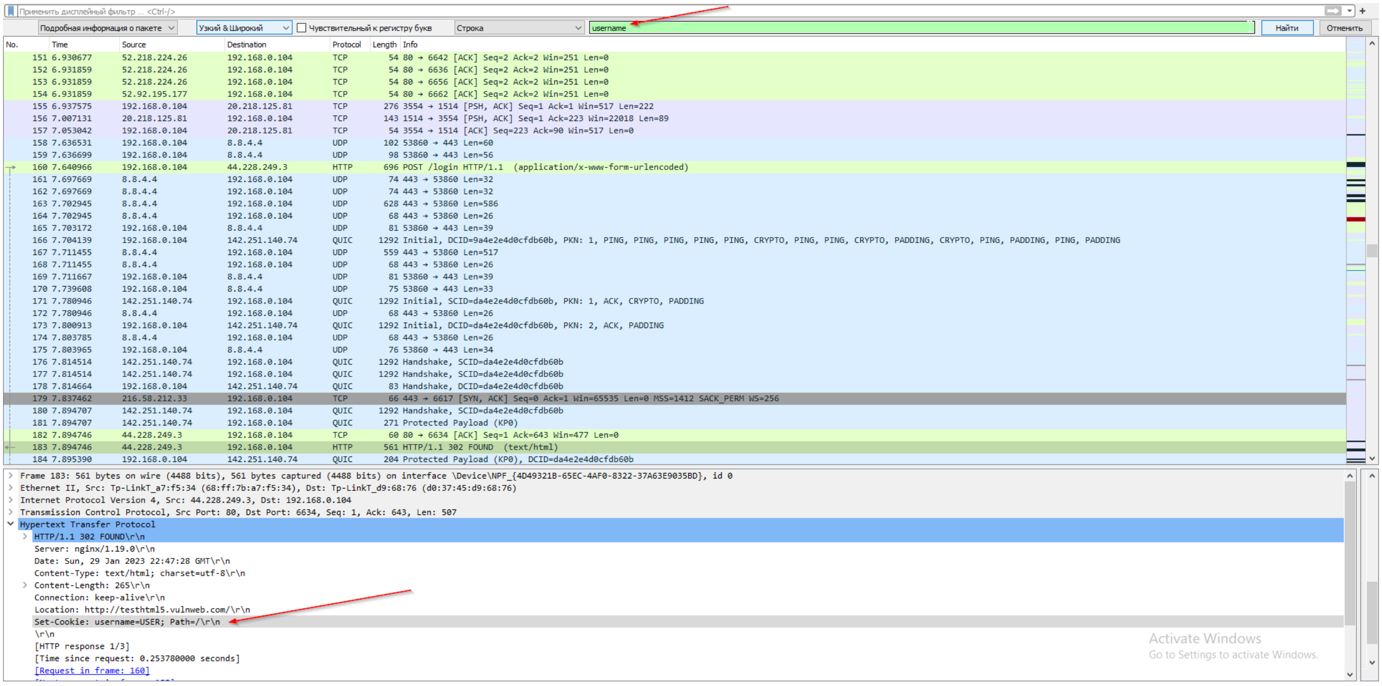


http.request.method==POST

No.	Time	Source	Destination	Protocol	Length	Info
160	7.640966	192.168.0.104	44.228.249.3	HTTP	696	POST /login HTTP/1.1 (application/x-www-form-urlencoded)

```
> Frame 160: 696 bytes on wire (5568 bits), 696 bytes captured (5568 bits) on interface \Device\NPF_{4D49321B-65EC-4AF0-8322-37A63E
> Ethernet II, Src: Tp-LinkT_d9:68:76 (d0:37:45:d9:68:76), Dst: Tp-LinkT_a7:f5:34 (68:ff:7b:a7:f5:34)
> Internet Protocol Version 4, Src: 192.168.0.104, Dst: 44.228.249.3
> Transmission Control Protocol, Src Port: 6634, Dst Port: 80, Seq: 1, Ack: 1, Len: 642
> Hypertext Transfer Protocol
v HTML Form URL Encoded: application/x-www-form-urlencoded
    v Form item: "username" = "USER"
        Key: username
        Value: USER
    v Form item: "password" = "USER"
        Key: password
        Value: USER
```

HTML Form URL Encoded (urlencoded-form), 27 byte(s) | Пакеты: 333 · Показаны: 1 (0.3%) · Потеряно: 0 (0.0%) | Профиль: Default



Подробная информация о пакете | Узкий & Широкий | □ Чувствительный к регистру букв | Строка | username

```
No.   Time      Source          Destination     Protocol Length Info
  151 6.930677  52.218.224.26   192.168.0.104   TCP        54 80 → 6642 [ACK] Seq=2 Ack=2 Win=251 Len=0
  152 6.931859  52.218.224.26   192.168.0.104   TCP        54 80 → 6636 [ACK] Seq=2 Ack=2 Win=251 Len=0
  153 6.931859  52.218.224.26   192.168.0.104   TCP        54 80 → 6656 [ACK] Seq=2 Ack=2 Win=251 Len=0
  154 6.931859  52.92.195.177   192.168.0.104   TCP        54 80 → 6662 [ACK] Seq=2 Ack=2 Win=251 Len=0
  155 6.937575  192.168.0.104   20.218.125.81   TCP       276 3554 → 1514 [PSH, ACK] Seq=1 Ack=1 Win=517 Len=222
  156 7.007131  20.218.125.81   192.168.0.104   TCP       143 1514 → 3554 [PSH, ACK] Seq=1 Ack=223 Win=22018 Len=89
  157 7.053042  192.168.0.104   20.218.125.81   TCP        54 3554 → 1514 [ACK] Seq=223 Ack=90 Win=517 Len=0
  158 7.636531  192.168.0.104   8.8.4.4         UDP       102 53860 → 443 Len=60
  159 7.636699  192.168.0.104   8.8.4.4         UDP        98 53860 → 443 Len=56
  160 7.640966  192.168.0.104   44.228.249.3    HTTP      696 POST /login HTTP/1.1  (application/x-www-form-urlencoded)
  161 7.697669  8.8.4.4         192.168.0.104   UDP        74 443 → 53860 Len=32
  162 7.697669  8.8.4.4         192.168.0.104   UDP        74 443 → 53860 Len=32
  163 7.702945  8.8.4.4         192.168.0.104   UDP       628 443 → 53860 Len=586
  164 7.702945  8.8.4.4         192.168.0.104   UDP        68 443 → 53860 Len=26
  165 7.703172  192.168.0.104   8.8.4.4         UDP        81 53860 → 443 Len=39
  166 7.704139  192.168.0.104   142.251.140.74  QUIC     1292 Initial, DCID=9a4e2e4d0cfdb60b, PKN: 1, PING, PING, PING, PING, PING, CRYPTO, PING, PING, CRYPTO, PADDING, CRYPTO, PING, PADDING, PING, PADDING
  167 7.711455  8.8.4.4         192.168.0.104   UDP       559 443 → 53860 Len=517
  168 7.711455  8.8.4.4         192.168.0.104   UDP        68 443 → 53860 Len=26
  169 7.711667  192.168.0.104   8.8.4.4         UDP        81 53860 → 443 Len=39
  170 7.739608  192.168.0.104   8.8.4.4         UDP        75 53860 → 443 Len=33
  171 7.780946  142.251.140.74  192.168.0.104   QUIC     1292 Initial, SCID=da4e2e4d0cfdb60b, PKN: 1, ACK, CRYPTO, PADDING
  172 7.780946  8.8.4.4         192.168.0.104   UDP        68 443 → 53860 Len=26
  173 7.800913  192.168.0.104   142.251.140.74  QUIC     1292 Initial, DCID=da4e2e4d0cfdb60b, PKN: 2, ACK, PADDING
  174 7.803785  8.8.4.4         192.168.0.104   UDP        68 443 → 53860 Len=26
  175 7.803965  192.168.0.104   8.8.4.4         UDP        76 53860 → 443 Len=34
  176 7.814514  142.251.140.74  192.168.0.104   QUIC     1292 Handshake, SCID=da4e2e4d0cfdb60b
  177 7.814514  142.251.140.74  192.168.0.104   QUIC     1292 Handshake, SCID=da4e2e4d0cfdb60b
  178 7.814664  192.168.0.104   142.251.140.74  QUIC       83 Handshake, DCID=da4e2e4d0cfdb60b
  179 7.837462  216.58.212.33   192.168.0.104   TCP        66 443 → 6617 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 SACK_PERM WS=256
  180 7.894707  142.251.140.74  192.168.0.104   QUIC     1292 Handshake, SCID=da4e2e4d0cfdb60b
  181 7.894707  142.251.140.74  192.168.0.104   QUIC      271 Protected Payload (KP0)
  182 7.894746  44.228.249.3    192.168.0.104   TCP        60 80 → 6634 [ACK] Seq=1 Ack=643 Win=477 Len=0
  183 7.894746  44.228.249.3    192.168.0.104   HTTP      561 HTTP/1.1 302 FOUND  (text/html)
  184 7.895390  192.168.0.104   142.251.140.74  QUIC      204 Protected Payload (KP0), DCID=da4e2e4d0cfdb60b
```

```
> Frame 183: 561 bytes on wire (4488 bits), 561 bytes captured (4488 bits) on interface \Device\NPF_{4D49321B-65EC-4AF0-8322-37A63E9035BD}, id 0
> Ethernet II, Src: Tp-LinkT_a7:f5:34 (68:ff:7b:a7:f5:34), Dst: Tp-LinkT_d9:68:76 (d0:37:45:d9:68:76)
> Internet Protocol Version 4, Src: 44.228.249.3, Dst: 192.168.0.104
> Transmission Control Protocol, Src Port: 80, Dst Port: 6634, Seq: 1, Ack: 643, Len: 507
v Hypertext Transfer Protocol
  > HTTP/1.1 302 FOUND\r\n
    Server: nginx/1.19.0\r\n
    Date: Sun, 29 Jan 2023 22:47:28 GMT\r\n
    Content-Type: text/html; charset=utf-8\r\n
  > Content-Length: 265\r\n
    Connection: keep-alive\r\n
    Location: http://testhtml5.vulnweb.com/\r\n
    Set-Cookie: username=USER; Path=/\r\n
    \r\n
    [HTTP response 1/3]
    [Time since request: 0.253780000 seconds]
    [Request in frame: 160]
```

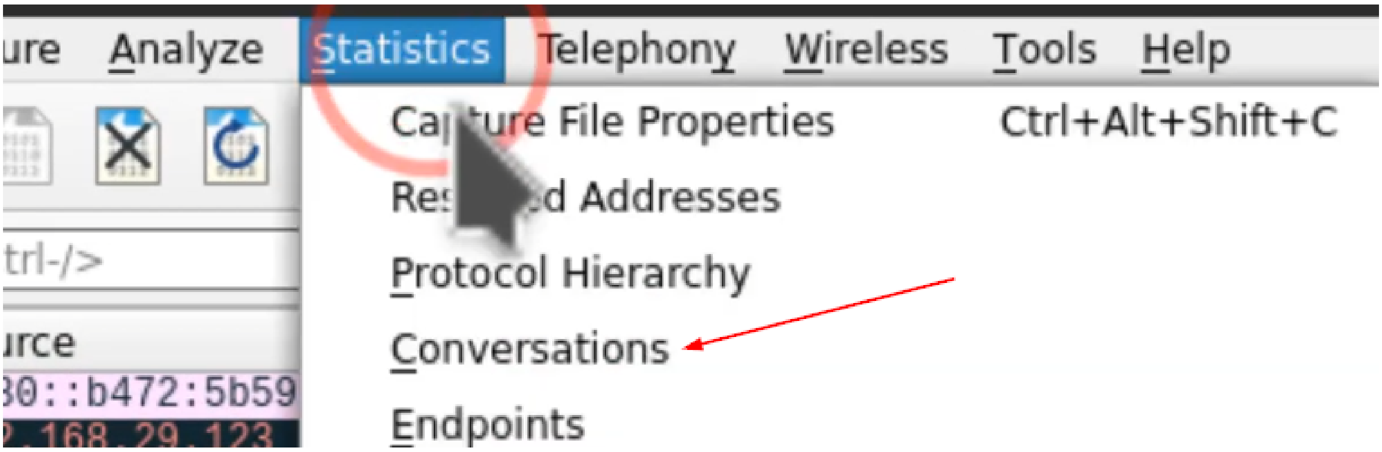
`tcp.flags.syn==1` - DoS

`tcp.flags.ack==0` - DoS

Detecting SYN floods

- Look out for an immense number of TCP connection requests. The proper display filter is `tcp.flags.syn == 1 and tcp.flags.ack == 0`
- The server, that is under attack, will respond with a smaller number of SYN/ACKs. These can be spotted with the display filter `tcp.flags.syn == 1 and tcp.flags.ack == 1`
- Try to compare the number of SYNs with the number of SYN/ACKs. As long as the numbers are identical your firewall or server is holding up.
- Very often, the source addresses are spoofed. A good indicator of a spoofed source address is a packet with the RST bit set in response to the SYN/ACK from your server. The normal response would be a packet with just the ACK flag being set.

DDoS and DoS:



ure
Analyze
Statistics
Telephony
Wireless
Tools
Help
Capture File Properties
Ctrl+Alt+Shift+C
Resolved Addresses
Protocol Hierarchy
Conversations
Endpoints
trl-/>
urce
30::b472:5b59
2.168.29.123