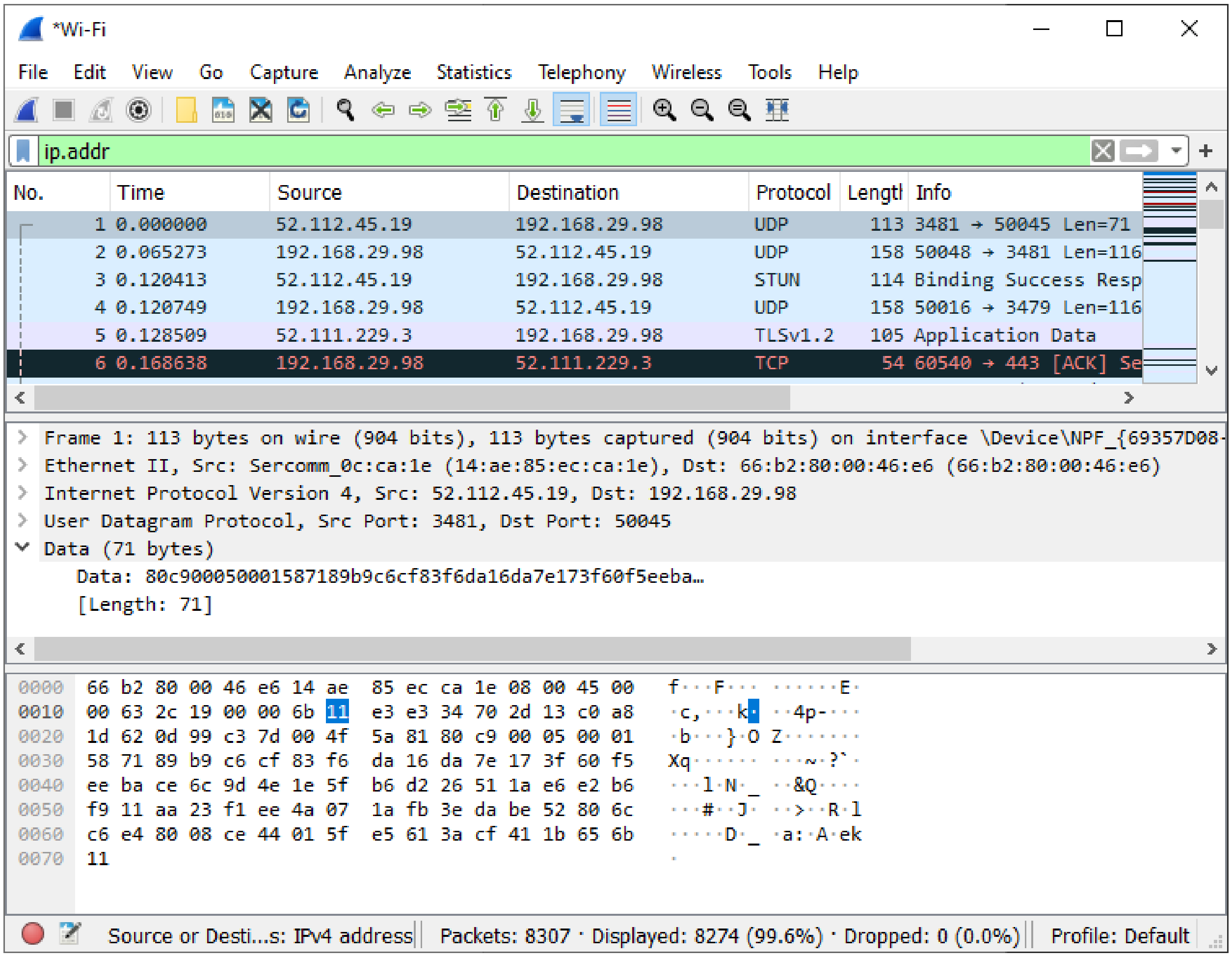
CSE1004 – LAB SUBMISSION 11 – 21/10/2020

Done by: ARVND CB 19BCE1221

Faculty: Dr Kanchana Devi – Slot: L52+L53

- ip.addr


*Wi-Fi
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ip.addr

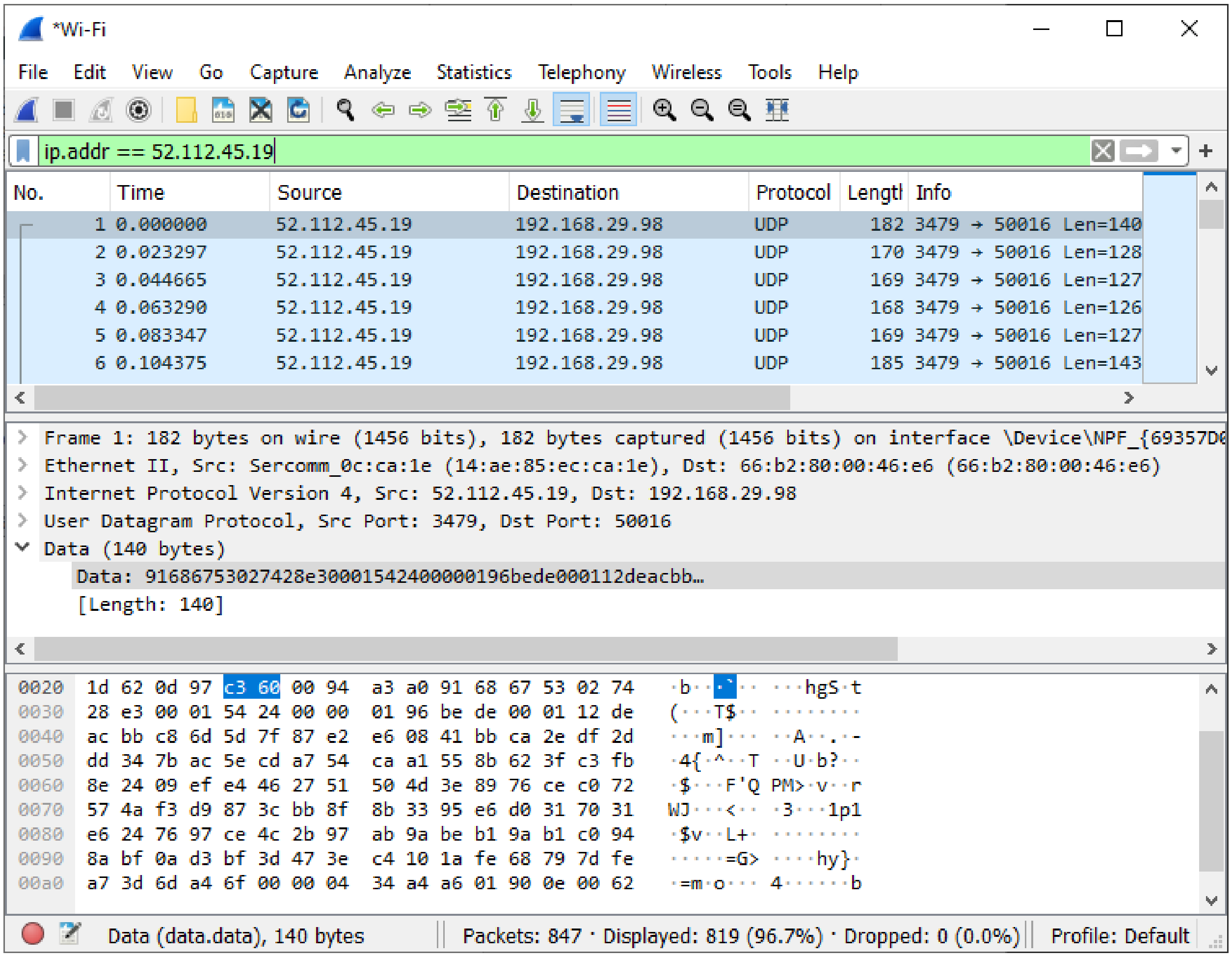
```
No.   Time       Source          Destination     Protocol  Lengtl Info
    1 0.000000   52.112.45.19    192.168.29.98   UDP        113 3481 → 50045 Len=71
    2 0.065273   192.168.29.98   52.112.45.19    UDP        158 50048 → 3481 Len=116
    3 0.120413   52.112.45.19    192.168.29.98   STUN       114 Binding Success Resp
    4 0.120749   192.168.29.98   52.112.45.19    UDP        158 50016 → 3479 Len=116
    5 0.128509   52.111.229.3    192.168.29.98   TLSv1.2    105 Application Data
    6 0.168638   192.168.29.98   52.111.229.3    TCP         54 60540 → 443 [ACK] Se
```

```
> Frame 1: 113 bytes on wire (904 bits), 113 bytes captured (904 bits) on interface \Device\NPF_{69357D08-
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.112.45.19, Dst: 192.168.29.98
> User Datagram Protocol, Src Port: 3481, Dst Port: 50045
v Data (71 bytes)
     Data: 80c900050001587189b9c6cf83f6da16da7e173f60f5eeba…
     [Length: 71]
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 63 2c 19 00 00 6b 11  e3 e3 34 70 2d 13 c0 a8   ·c,···k· ··4p-···
0020  1d 62 0d 99 c3 7d 00 4f  5a 81 80 c9 00 05 00 01   ·b···}·O Z·······
0030  58 71 89 b9 c6 cf 83 f6  da 16 da 7e 17 3f 60 f5   Xq······ ···~·?`·
0040  ee ba ce 6c 9d 4e 1e 5f  b6 d2 26 51 1a e6 e2 b6   ···l·N·_ ··&Q····
0050  f9 11 aa 23 f1 ee 4a 07  1a fb 3e da be 52 80 6c   ···#··J· ··>··R·l
0060  c6 e4 80 08 ce 44 01 5f  e5 61 3a cf 41 1b 65 6b   ·····D·_ ·a:·A·ek
0070  11                                                 ·
```

Source or Desti...s: IPv4 address | Packets: 8307 · Displayed: 8274 (99.6%) · Dropped: 0 (0.0%) | Profile: Default

- ip.addr == 172.16.50.254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ip.addr == 52.112.45.19

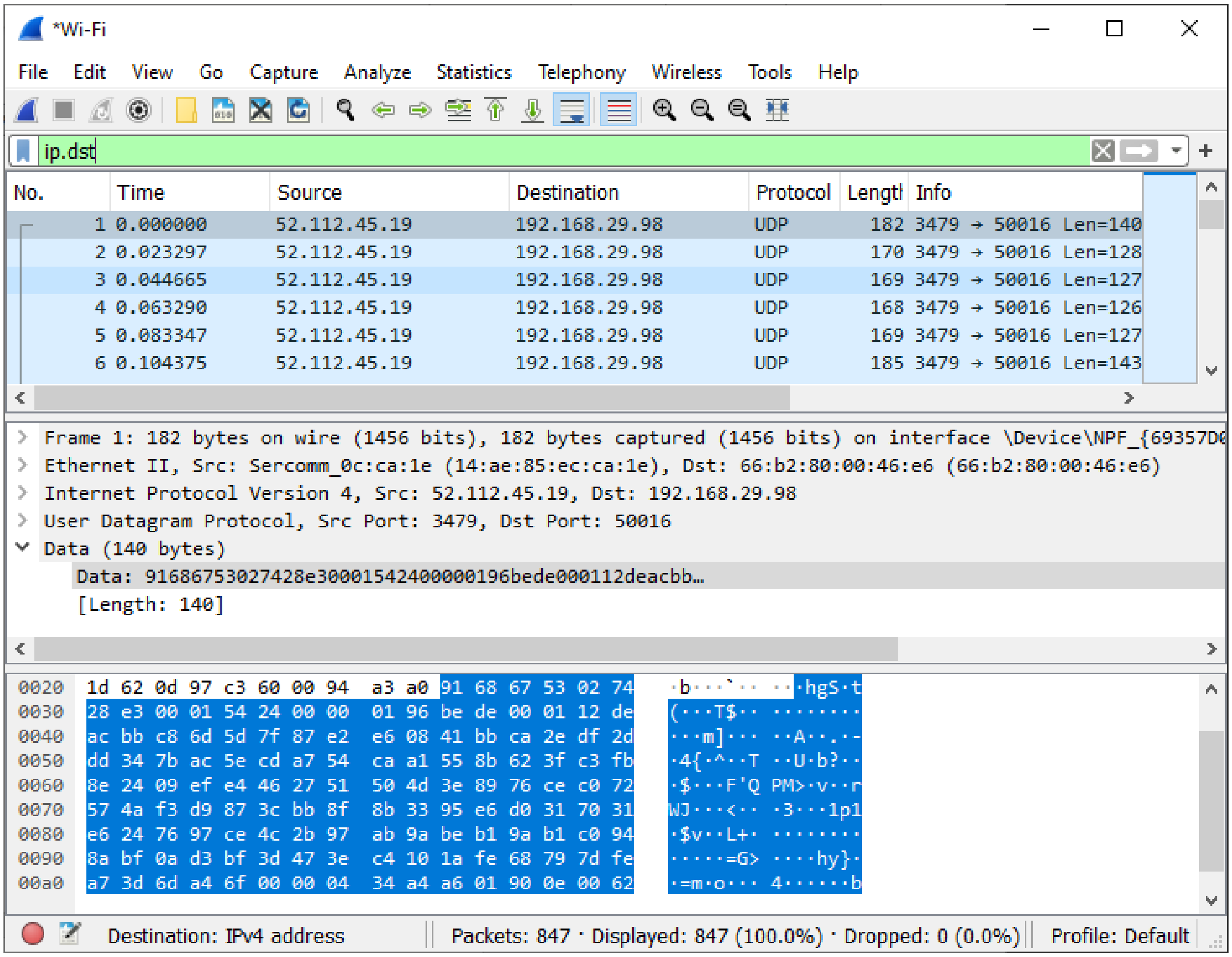
```
No.  Time       Source          Destination     Protocol Lengtl Info
  1 0.000000   52.112.45.19    192.168.29.98   UDP         182 3479 → 50016 Len=140
  2 0.023297   52.112.45.19    192.168.29.98   UDP         170 3479 → 50016 Len=128
  3 0.044665   52.112.45.19    192.168.29.98   UDP         169 3479 → 50016 Len=127
  4 0.063290   52.112.45.19    192.168.29.98   UDP         168 3479 → 50016 Len=126
  5 0.083347   52.112.45.19    192.168.29.98   UDP         169 3479 → 50016 Len=127
  6 0.104375   52.112.45.19    192.168.29.98   UDP         185 3479 → 50016 Len=143
```

```
> Frame 1: 182 bytes on wire (1456 bits), 182 bytes captured (1456 bits) on interface \Device\NPF_{69357D0
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.112.45.19, Dst: 192.168.29.98
> User Datagram Protocol, Src Port: 3479, Dst Port: 50016
v Data (140 bytes)
     Data: 91686753027428e30001542400000196bede000112deacbb…
     [Length: 140]
```

```
0020  1d 62 0d 97 c3 60 00 94  a3 a0 91 68 67 53 02 74   ·b···`·· ···hgS·t
0030  28 e3 00 01 54 24 00 00  01 96 be de 00 01 12 de   (···T$·· ········
0040  ac bb c8 6d 5d 7f 87 e2  e6 08 41 bb ca 2e df 2d   ···m]··· ··A··.·-
0050  dd 34 7b ac 5e cd a7 54  ca a1 55 8b 62 3f c3 fb   ·4{·^··T ··U·b?··
0060  8e 24 09 ef e4 46 27 51  50 4d 3e 89 76 ce c0 72   ·$···F'Q PM>·v··r
0070  57 4a f3 d9 87 3c bb 8f  8b 33 95 e6 d0 31 70 31   WJ···<·· ·3···1p1
0080  e6 24 76 97 ce 4c 2b 97  ab 9a be b1 9a b1 c0 94   ·$v··L+· ········
0090  8a bf 0a d3 bf 3d 47 3e  c4 10 1a fe 68 79 7d fe   ·····=G> ····hy}·
00a0  a7 3d 6d a4 6f 00 00 04  34 a4 a6 01 90 0e 00 62   ·=m·o··· 4······b
```

Data (data.data), 140 bytes || Packets: 847 · Displayed: 819 (96.7%) · Dropped: 0 (0.0%) || Profile: Default

- ip.dst



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ip.dst

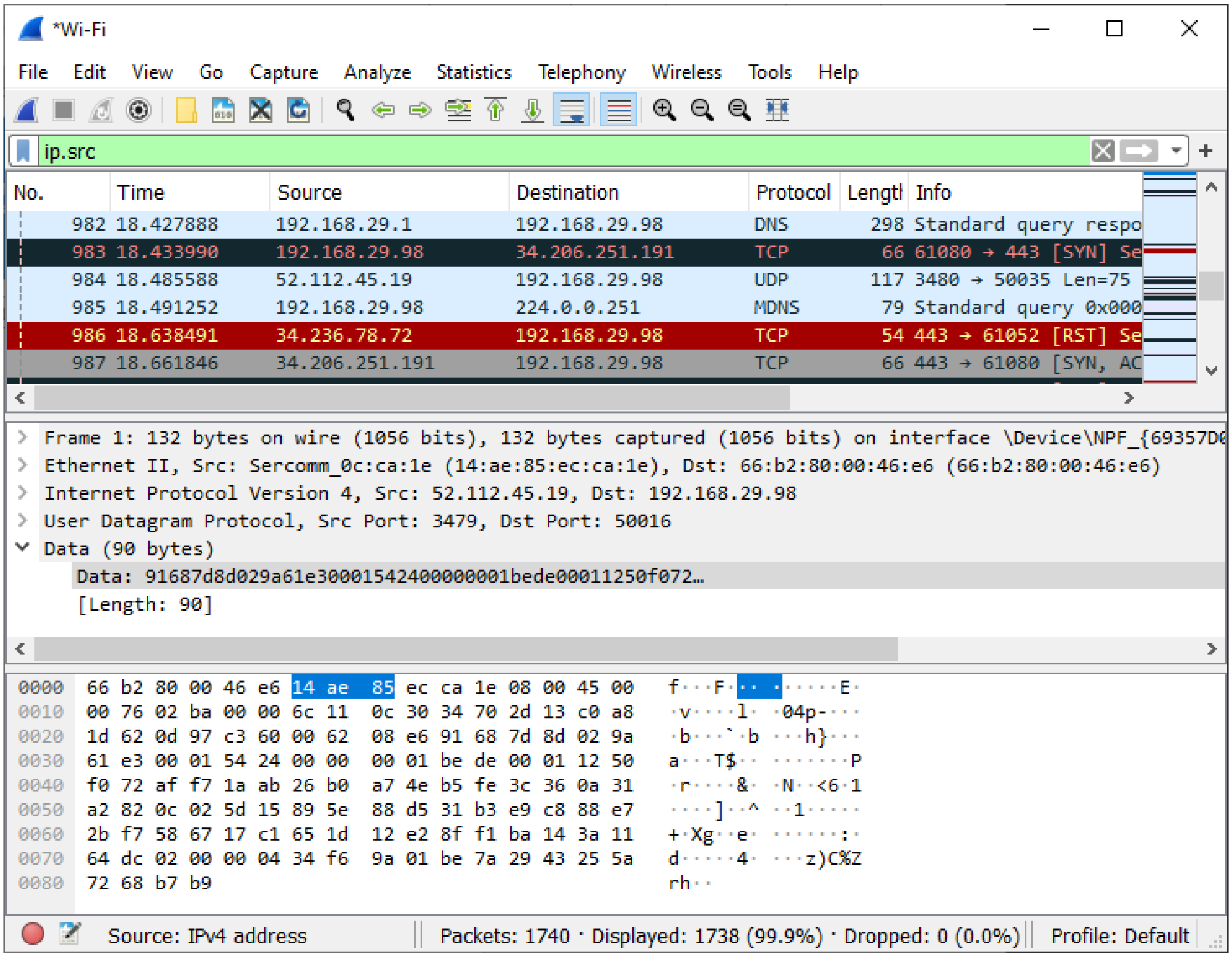
```
No.   Time       Source          Destination     Protocol  Lengtl Info
    1 0.000000   52.112.45.19    192.168.29.98   UDP       182 3479 → 50016 Len=140
    2 0.023297   52.112.45.19    192.168.29.98   UDP       170 3479 → 50016 Len=128
    3 0.044665   52.112.45.19    192.168.29.98   UDP       169 3479 → 50016 Len=127
    4 0.063290   52.112.45.19    192.168.29.98   UDP       168 3479 → 50016 Len=126
    5 0.083347   52.112.45.19    192.168.29.98   UDP       169 3479 → 50016 Len=127
    6 0.104375   52.112.45.19    192.168.29.98   UDP       185 3479 → 50016 Len=143
```

```
> Frame 1: 182 bytes on wire (1456 bits), 182 bytes captured (1456 bits) on interface \Device\NPF_{69357D0
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.112.45.19, Dst: 192.168.29.98
> User Datagram Protocol, Src Port: 3479, Dst Port: 50016
v Data (140 bytes)
     Data: 91686753027428e30001542400000196bede000112deacbb…
     [Length: 140]
```

```
0020  1d 62 0d 97 c3 60 00 94  a3 a0 91 68 67 53 02 74   ·b···`·· ···hgS·t
0030  28 e3 00 01 54 24 00 00  01 96 be de 00 01 12 de   (···T$·· ········
0040  ac bb c8 6d 5d 7f 87 e2  e6 08 41 bb ca 2e df 2d   ···m]··· ··A··.·-
0050  dd 34 7b ac 5e cd a7 54  ca a1 55 8b 62 3f c3 fb   ·4{·^··T ··U·b?··
0060  8e 24 09 ef e4 46 27 51  50 4d 3e 89 76 ce c0 72   ·$···F'Q PM>·v··r
0070  57 4a f3 d9 87 3c bb 8f  8b 33 95 e6 d0 31 70 31   WJ···<·· ·3···1p1
0080  e6 24 76 97 ce 4c 2b 97  ab 9a be b1 9a b1 c0 94   ·$v··L+· ········
0090  8a bf 0a d3 bf 3d 47 3e  c4 10 1a fe 68 79 7d fe   ·····=G> ····hy}·
00a0  a7 3d 6d a4 6f 00 00 04  34 a4 a6 01 90 0e 00 62   ·=m·o··· 4······b
```

Destination: IPv4 address | Packets: 847 · Displayed: 847 (100.0%) · Dropped: 0 (0.0%) | Profile: Default

- ip.src



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```
ip.src
```

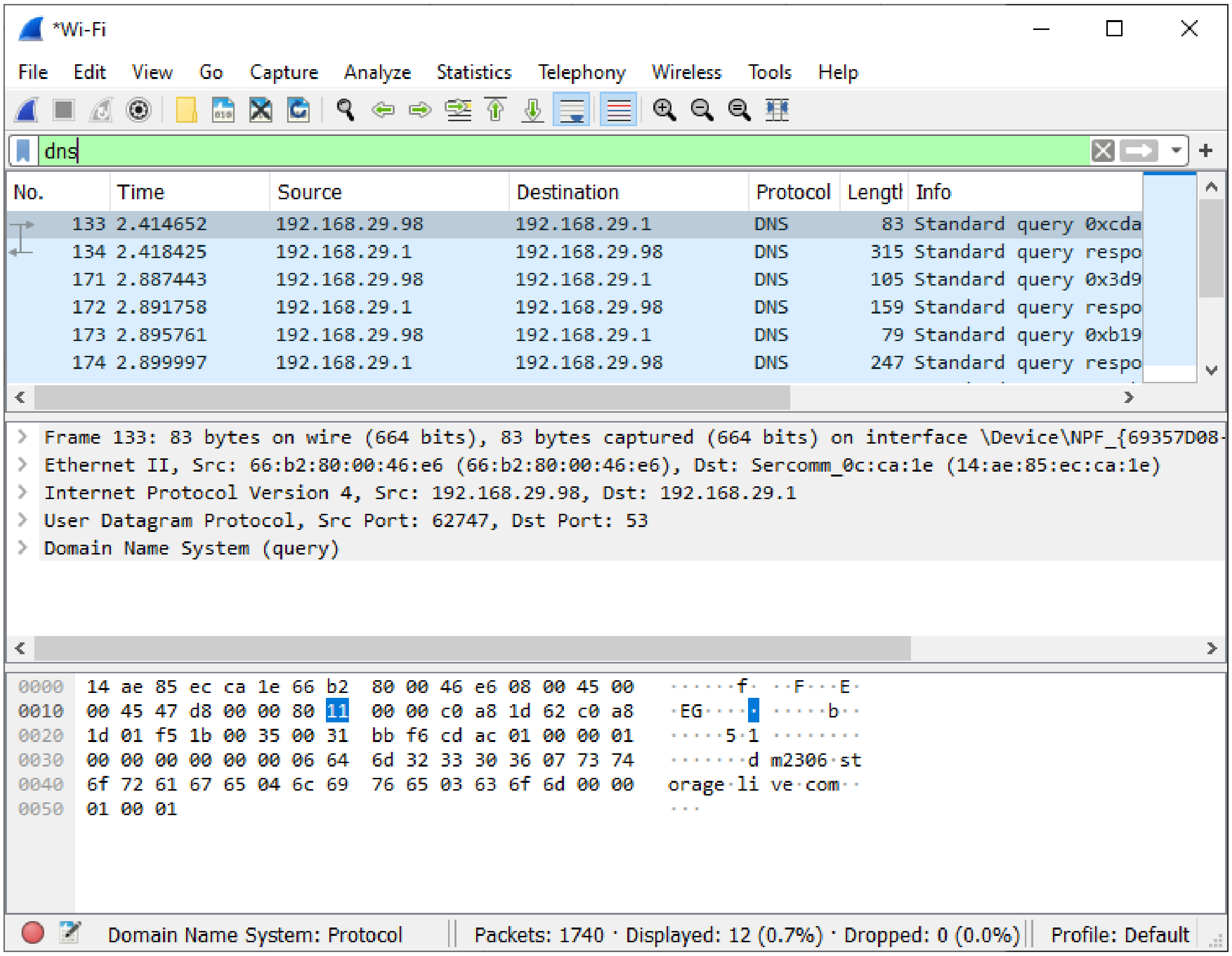
```
No.    Time        Source          Destination     Protocol Length Info
   982 18.427888   192.168.29.1    192.168.29.98   DNS      298 Standard query respo
   983 18.433990   192.168.29.98   34.206.251.191  TCP       66 61080 → 443 [SYN] Se
   984 18.485588   52.112.45.19    192.168.29.98   UDP      117 3480 → 50035 Len=75
   985 18.491252   192.168.29.98   224.0.0.251     MDNS      79 Standard query 0x000
   986 18.638491   34.236.78.72    192.168.29.98   TCP       54 443 → 61052 [RST] Se
   987 18.661846   34.206.251.191  192.168.29.98   TCP       66 443 → 61080 [SYN, AC
```

```
> Frame 1: 132 bytes on wire (1056 bits), 132 bytes captured (1056 bits) on interface \Device\NPF_{69357D0
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.112.45.19, Dst: 192.168.29.98
> User Datagram Protocol, Src Port: 3479, Dst Port: 50016
v Data (90 bytes)
     Data: 91687d8d029a61e30001542400000001bede00011250f072…
     [Length: 90]
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 76 02 ba 00 00 6c 11  0c 30 34 70 2d 13 c0 a8   ·v····l· ·04p-···
0020  1d 62 0d 97 c3 60 00 62  08 e6 91 68 7d 8d 02 9a   ·b···`·b ···h}···
0030  61 e3 00 01 54 24 00 00  00 01 be de 00 01 12 50   a···T$·· ·······P
0040  f0 72 af f7 1a ab 26 b0  a7 4e b5 fe 3c 36 0a 31   ·r····&· ·N··<6·1
0050  a2 82 0c 02 5d 15 89 5e  88 d5 31 b3 e9 c8 88 e7   ····]··^ ··1·····
0060  2b f7 58 67 17 c1 65 1d  12 e2 8f f1 ba 14 3a 11   +·Xg··e· ······:·
0070  64 dc 02 00 00 04 34 f6  9a 01 be 7a 29 43 25 5a   d·····4· ···z)C%Z
0080  72 68 b7 b9                                        rh··
```

Source: IPv4 address || Packets: 1740 · Displayed: 1738 (99.9%) · Dropped: 0 (0.0%) || Profile: Default

- dns and http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dns

No.	Time	Source	Destination	Protocol	Lengtl	Info
133	2.414652	192.168.29.98	192.168.29.1	DNS	83	Standard query 0xcda
134	2.418425	192.168.29.1	192.168.29.98	DNS	315	Standard query respo
171	2.887443	192.168.29.98	192.168.29.1	DNS	105	Standard query 0x3d9
172	2.891758	192.168.29.1	192.168.29.98	DNS	159	Standard query respo
173	2.895761	192.168.29.98	192.168.29.1	DNS	79	Standard query 0xb19
174	2.899997	192.168.29.1	192.168.29.98	DNS	247	Standard query respo

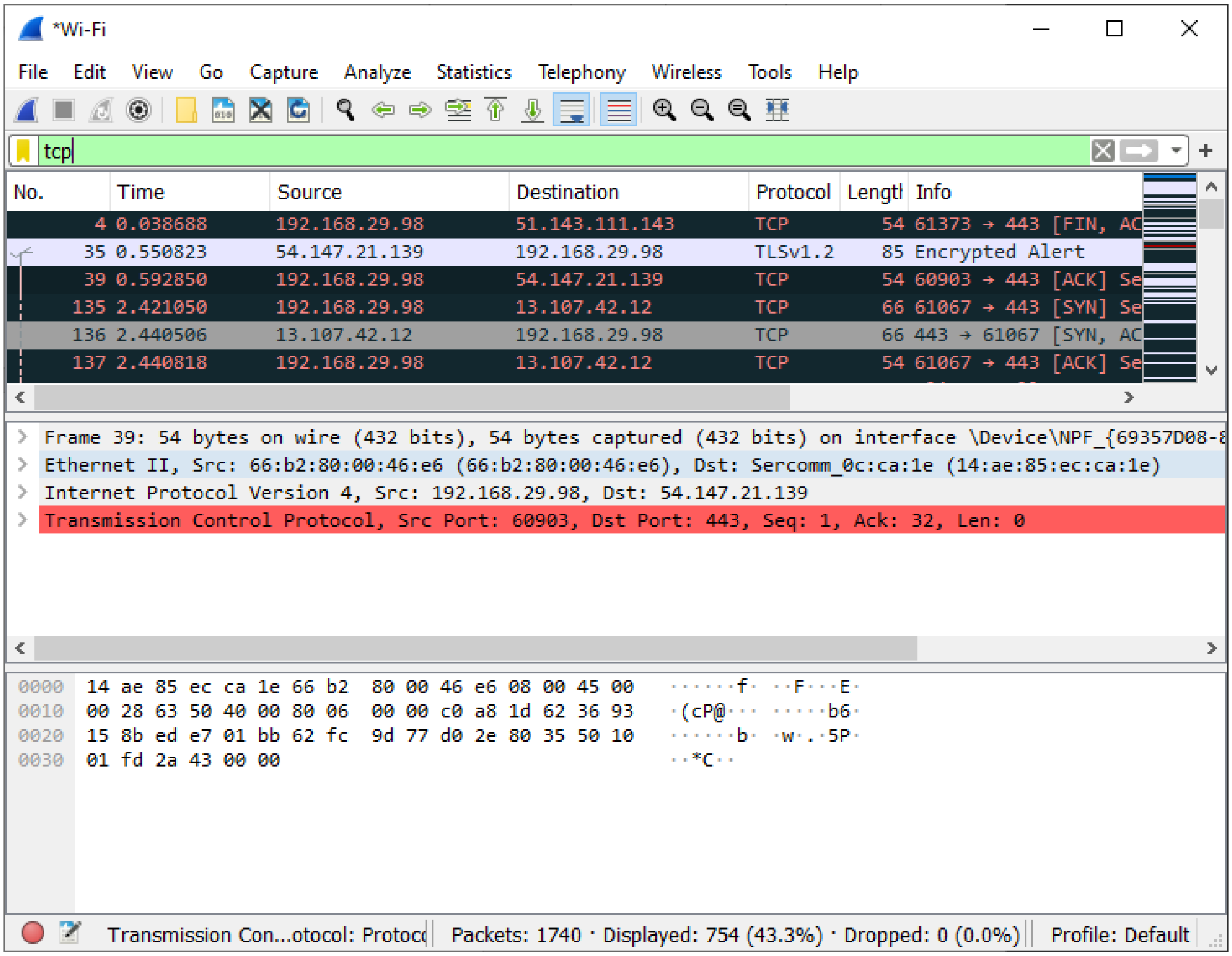
```
> Frame 133: 83 bytes on wire (664 bits), 83 bytes captured (664 bits) on interface \Device\NPF_{69357D08-
> Ethernet II, Src: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6), Dst: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e)
> Internet Protocol Version 4, Src: 192.168.29.98, Dst: 192.168.29.1
> User Datagram Protocol, Src Port: 62747, Dst Port: 53
> Domain Name System (query)
```

```
0000  14 ae 85 ec ca 1e 66 b2  80 00 46 e6 08 00 45 00   ······f· ··F···E·
0010  00 45 47 d8 00 00 80 11  00 00 c0 a8 1d 62 c0 a8   ·EG····· ·····b··
0020  1d 01 f5 1b 00 35 00 31  bb f6 cd ac 01 00 00 01   ·····5·1 ········
0030  00 00 00 00 00 00 06 64  6d 32 33 30 36 07 73 74   ·······d m2306·st
0040  6f 72 61 67 65 04 6c 69  76 65 03 63 6f 6d 00 00   orage·li ve·com··
0050  01 00 01                                           ···
```

Domain Name System: Protocol
Packets: 1740 · Displayed: 12 (0.7%) · Dropped: 0 (0.0%)
Profile: Default

dns and http was not working so I have executed only dns

- dns or tcp



*Wi-Fi
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tcp

```
No.   Time       Source           Destination      Protocol Lengtł Info
    4 0.038688   192.168.29.98    51.143.111.143   TCP          54 61373 → 443 [FIN, AC
   35 0.550823   54.147.21.139    192.168.29.98    TLSv1.2      85 Encrypted Alert
   39 0.592850   192.168.29.98    54.147.21.139    TCP          54 60903 → 443 [ACK] Se
  135 2.421050   192.168.29.98    13.107.42.12     TCP          66 61067 → 443 [SYN] Se
  136 2.440506   13.107.42.12     192.168.29.98    TCP          66 443 → 61067 [SYN, AC
  137 2.440818   192.168.29.98    13.107.42.12     TCP          54 61067 → 443 [ACK] Se
```

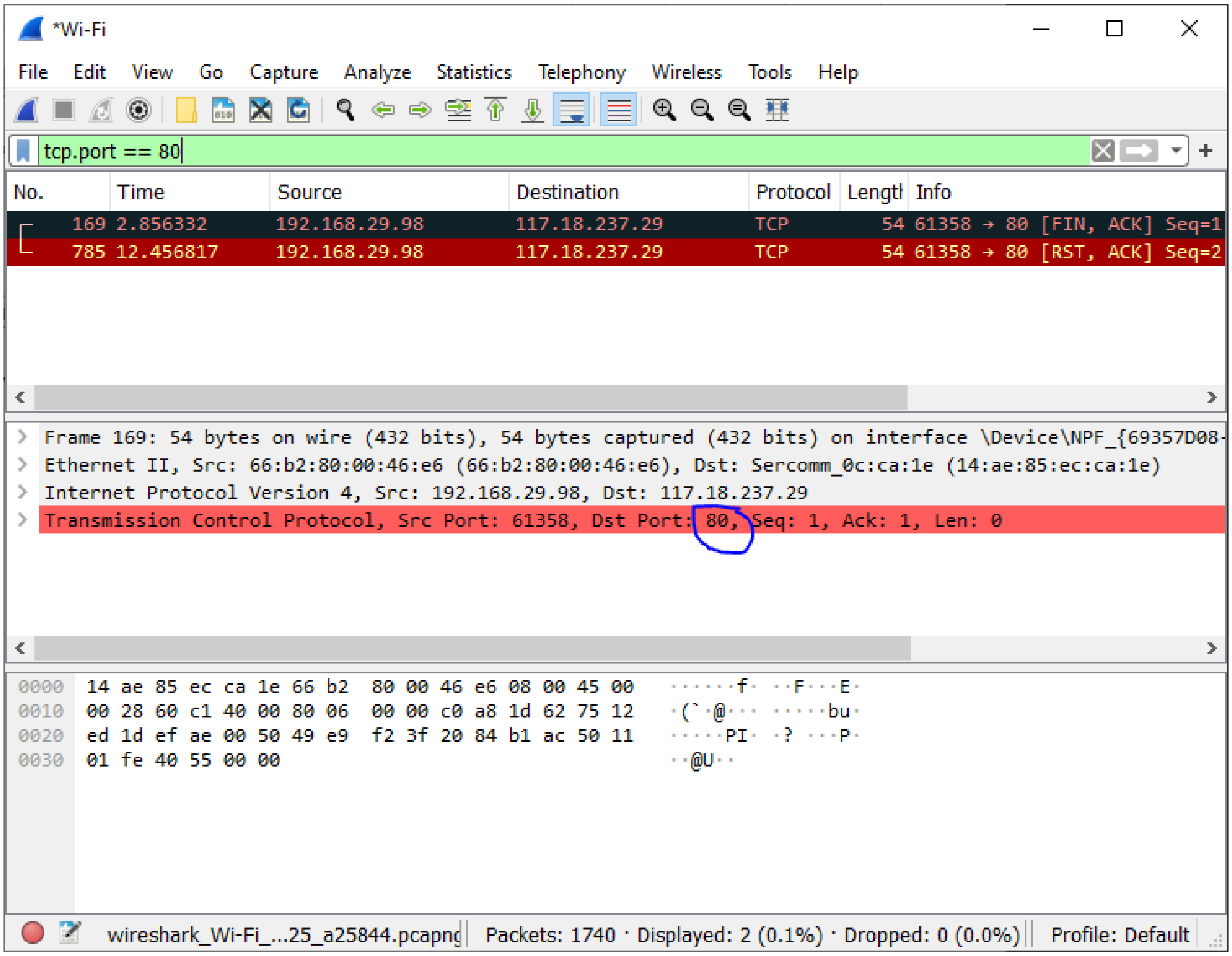
```
> Frame 39: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{69357D08-8
> Ethernet II, Src: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6), Dst: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e)
> Internet Protocol Version 4, Src: 192.168.29.98, Dst: 54.147.21.139
> Transmission Control Protocol, Src Port: 60903, Dst Port: 443, Seq: 1, Ack: 32, Len: 0
```

```
0000  14 ae 85 ec ca 1e 66 b2  80 00 46 e6 08 00 45 00   ······f· ··F···E·
0010  00 28 63 50 40 00 80 06  00 00 c0 a8 1d 62 36 93   ·(cP@··· ·····b6·
0020  15 8b ed e7 01 bb 62 fc  9d 77 d0 2e 80 35 50 10   ······b· ·w·.·5P·
0030  01 fd 2a 43 00 00                                  ··*C··
```

Transmission Con...otocol: Protoc | Packets: 1740 · Displayed: 754 (43.3%) · Dropped: 0 (0.0%) | Profile: Default

dns or tcp was not working so I have attached tcp

- tcp.port == 8008


*Wi-Fi
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tcp.port == 80

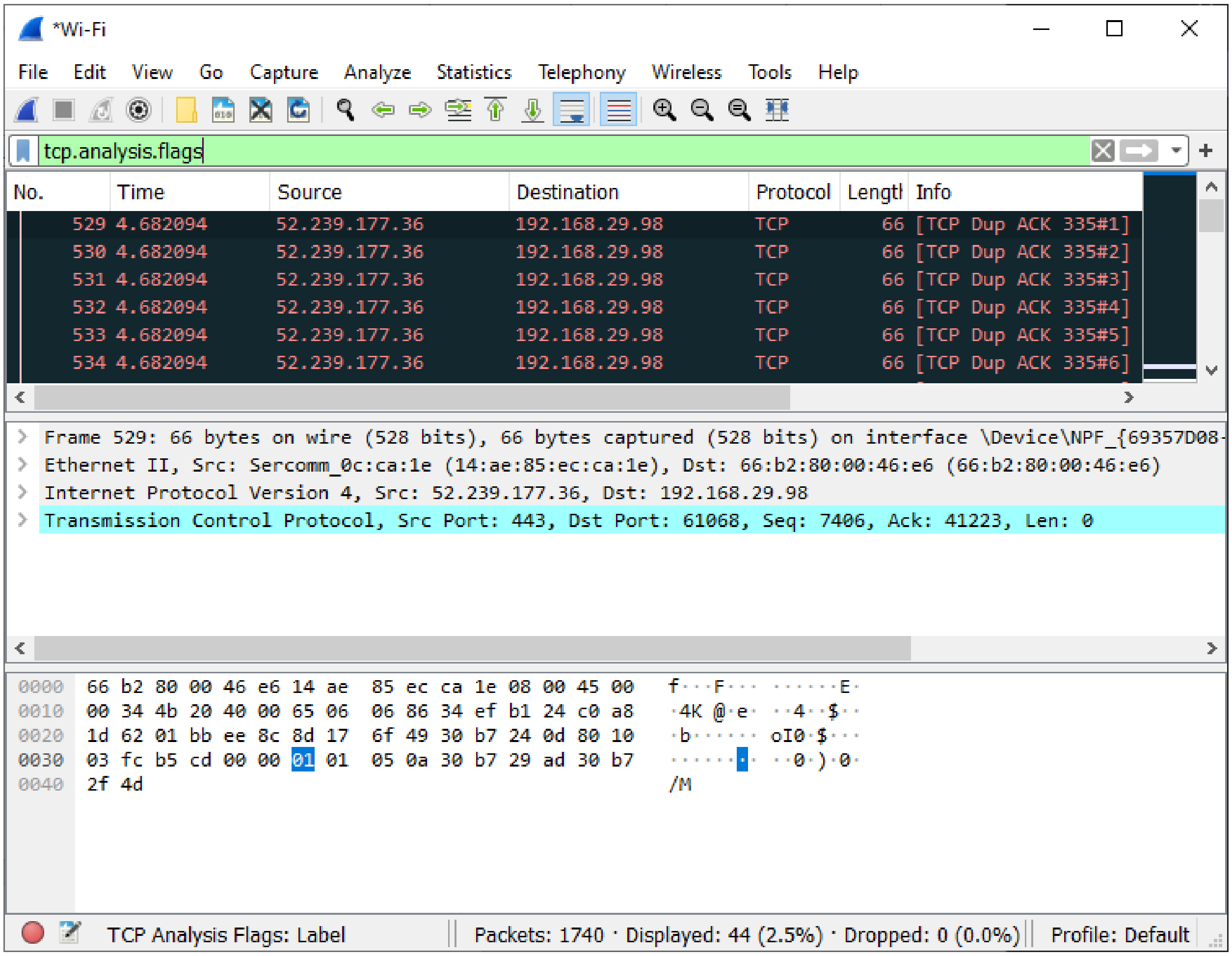
```
No.    Time        Source          Destination     Protocol  Lengtł Info
  169 2.856332    192.168.29.98   117.18.237.29   TCP            54 61358 → 80 [FIN, ACK] Seq=1
  785 12.456817   192.168.29.98   117.18.237.29   TCP            54 61358 → 80 [RST, ACK] Seq=2
```

```
> Frame 169: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{69357D08-
> Ethernet II, Src: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6), Dst: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e)
> Internet Protocol Version 4, Src: 192.168.29.98, Dst: 117.18.237.29
> Transmission Control Protocol, Src Port: 61358, Dst Port: 80, Seq: 1, Ack: 1, Len: 0
```

```
0000  14 ae 85 ec ca 1e 66 b2  80 00 46 e6 08 00 45 00   ······f· ··F···E·
0010  00 28 60 c1 40 00 80 06  00 00 c0 a8 1d 62 75 12   ·(`·@··· ·····bu·
0020  ed 1d ef ae 00 50 49 e9  f2 3f 20 84 b1 ac 50 11   ·····PI· ·? ···P·
0030  01 fe 40 55 00 00                                  ··@U··
```

wireshark_Wi-Fi_...25_a25844.pcapng | Packets: 1740 · Displayed: 2 (0.1%) · Dropped: 0 (0.0%) | Profile: Default

- tcp.analysis.flags



tcp.analysis.flags

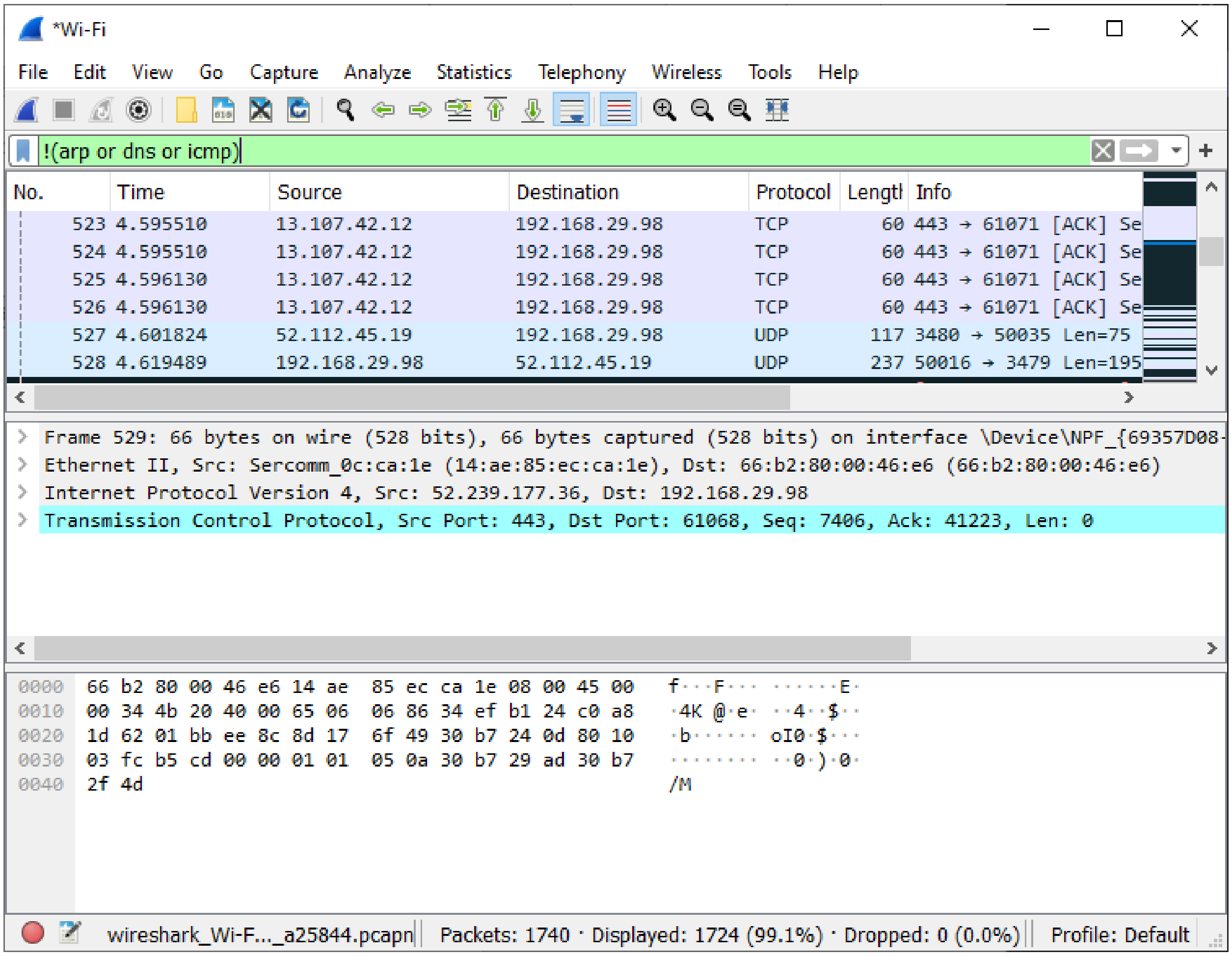
No.	Time	Source	Destination	Protocol	Lengtl	Info
529	4.682094	52.239.177.36	192.168.29.98	TCP	66	[TCP Dup ACK 335#1]
530	4.682094	52.239.177.36	192.168.29.98	TCP	66	[TCP Dup ACK 335#2]
531	4.682094	52.239.177.36	192.168.29.98	TCP	66	[TCP Dup ACK 335#3]
532	4.682094	52.239.177.36	192.168.29.98	TCP	66	[TCP Dup ACK 335#4]
533	4.682094	52.239.177.36	192.168.29.98	TCP	66	[TCP Dup ACK 335#5]
534	4.682094	52.239.177.36	192.168.29.98	TCP	66	[TCP Dup ACK 335#6]

```
> Frame 529: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{69357D08-
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.239.177.36, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61068, Seq: 7406, Ack: 41223, Len: 0
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 34 4b 20 40 00 65 06  06 86 34 ef b1 24 c0 a8   ·4K @·e· ··4··$··
0020  1d 62 01 bb ee 8c 8d 17  6f 49 30 b7 24 0d 80 10   ·b······ oI0·$···
0030  03 fc b5 cd 00 00 01 01  05 0a 30 b7 29 ad 30 b7   ········ ··0·)·0·
0040  2f 4d                                              /M
```

TCP Analysis Flags: Label || Packets: 1740 · Displayed: 44 (2.5%) · Dropped: 0 (0.0%) || Profile: Default

- !(arp or dns or icmp)



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!(arp or dns or icmp)

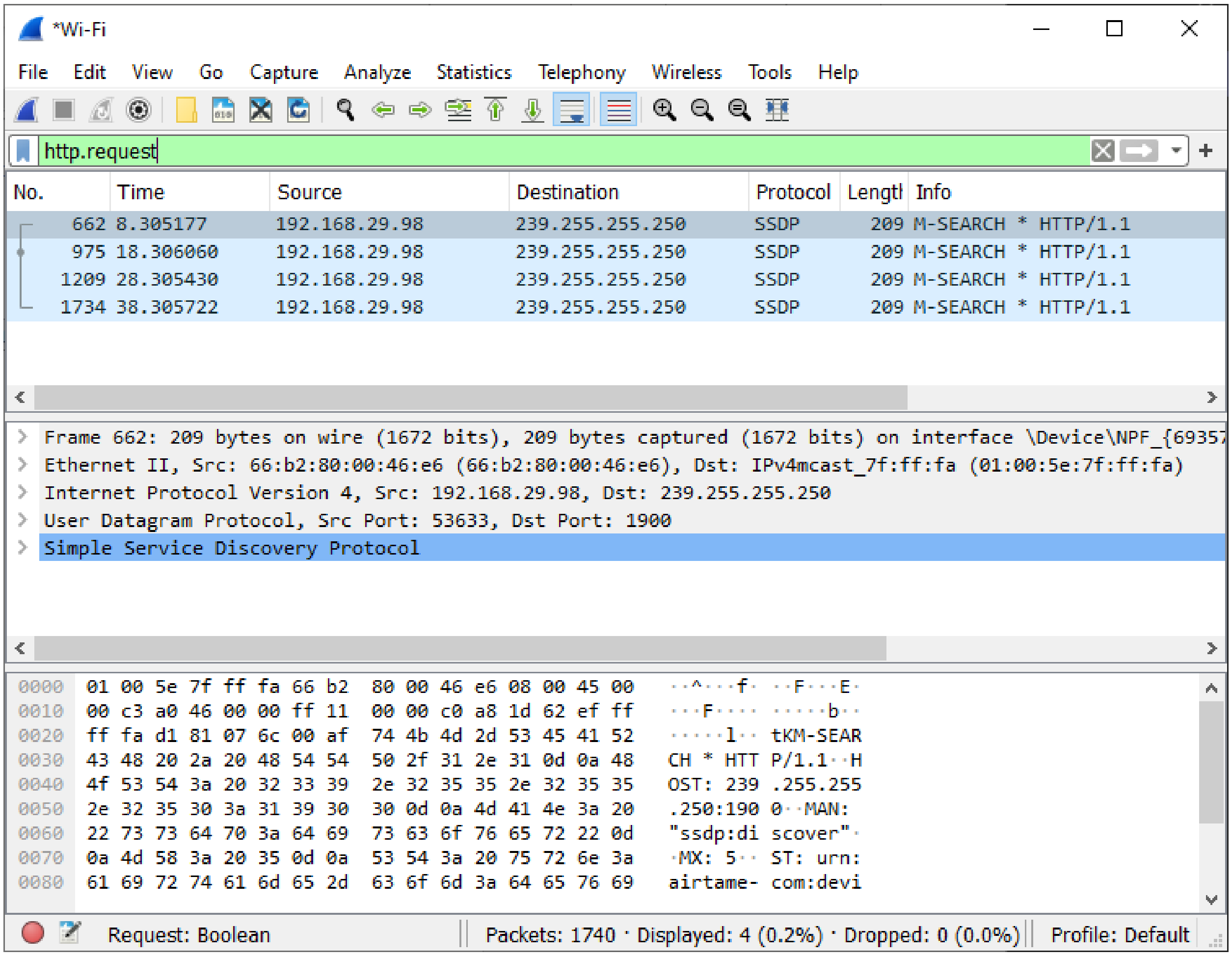
```
No.   Time      Source          Destination     Protocol Lengtl Info
  523 4.595510  13.107.42.12    192.168.29.98   TCP         60 443 → 61071 [ACK] Se
  524 4.595510  13.107.42.12    192.168.29.98   TCP         60 443 → 61071 [ACK] Se
  525 4.596130  13.107.42.12    192.168.29.98   TCP         60 443 → 61071 [ACK] Se
  526 4.596130  13.107.42.12    192.168.29.98   TCP         60 443 → 61071 [ACK] Se
  527 4.601824  52.112.45.19    192.168.29.98   UDP        117 3480 → 50035 Len=75
  528 4.619489  192.168.29.98   52.112.45.19    UDP        237 50016 → 3479 Len=195
```

```
> Frame 529: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{69357D08-
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.239.177.36, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61068, Seq: 7406, Ack: 41223, Len: 0
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 34 4b 20 40 00 65 06  06 86 34 ef b1 24 c0 a8   ·4K @·e· ··4··$··
0020  1d 62 01 bb ee 8c 8d 17  6f 49 30 b7 24 0d 80 10   ·b······ oI0·$···
0030  03 fc b5 cd 00 00 01 01  05 0a 30 b7 29 ad 30 b7   ········ ··0·)·0·
0040  2f 4d                                              /M
```

wireshark_Wi-F..._a25844.pcapn | Packets: 1740 · Displayed: 1724 (99.1%) · Dropped: 0 (0.0%) | Profile: Default

- http.request


*Wi-Fi
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http.request

No.	Time	Source	Destination	Protocol	Lengtl	Info
662	8.305177	192.168.29.98	239.255.255.250	SSDP	209	M-SEARCH * HTTP/1.1
975	18.306060	192.168.29.98	239.255.255.250	SSDP	209	M-SEARCH * HTTP/1.1
1209	28.305430	192.168.29.98	239.255.255.250	SSDP	209	M-SEARCH * HTTP/1.1
1734	38.305722	192.168.29.98	239.255.255.250	SSDP	209	M-SEARCH * HTTP/1.1

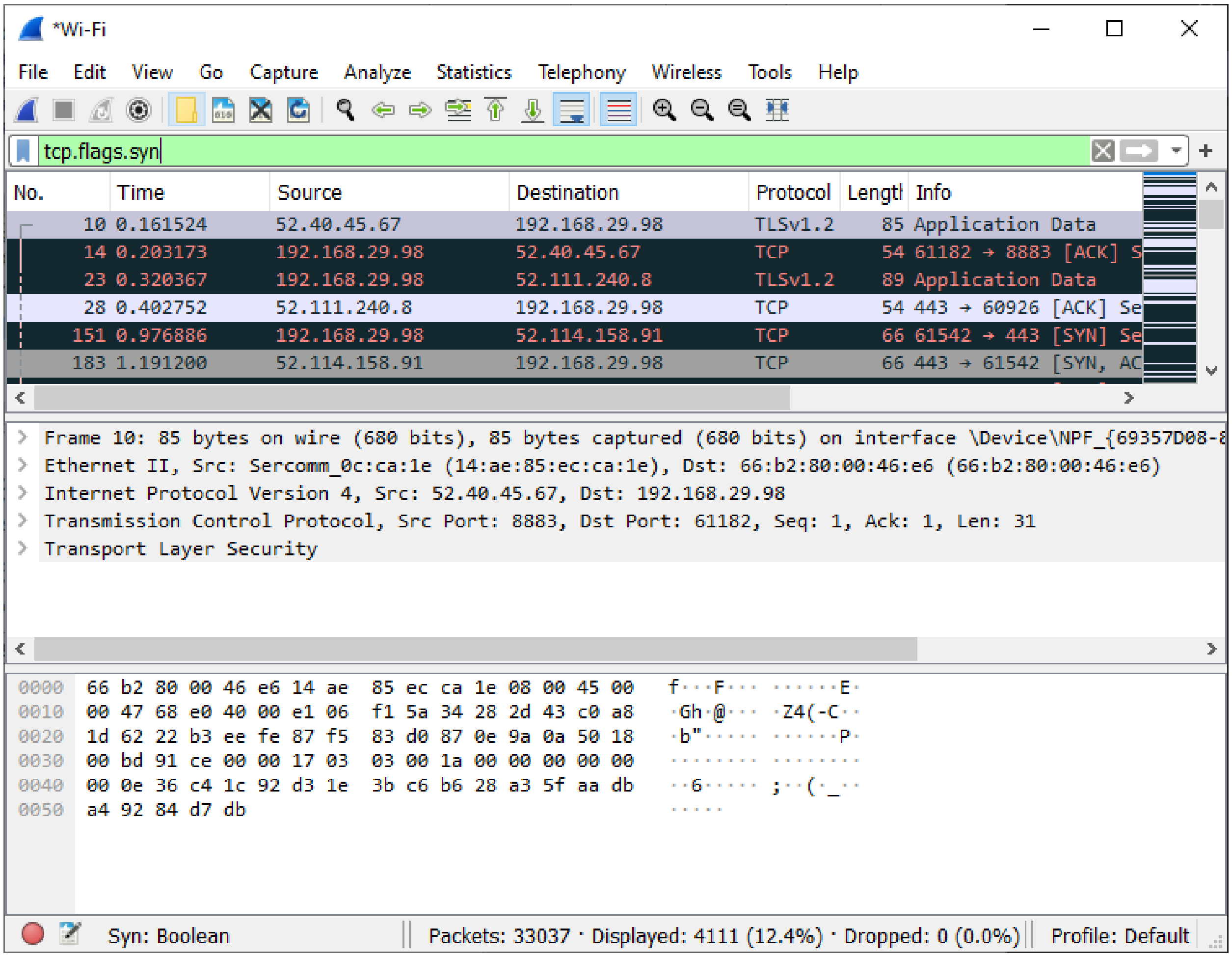
```
> Frame 662: 209 bytes on wire (1672 bits), 209 bytes captured (1672 bits) on interface \Device\NPF_{69357
> Ethernet II, Src: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6), Dst: IPv4mcast_7f:ff:fa (01:00:5e:7f:ff:fa)
> Internet Protocol Version 4, Src: 192.168.29.98, Dst: 239.255.255.250
> User Datagram Protocol, Src Port: 53633, Dst Port: 1900
> Simple Service Discovery Protocol
```

```
0000  01 00 5e 7f ff fa 66 b2  80 00 46 e6 08 00 45 00   ··^···f· ··F···E·
0010  00 c3 a0 46 00 00 ff 11  00 00 c0 a8 1d 62 ef ff   ···F···· ·····b··
0020  ff fa d1 81 07 6c 00 af  74 4b 4d 2d 53 45 41 52   ·····l·· tKM-SEAR
0030  43 48 20 2a 20 48 54 54  50 2f 31 2e 31 0d 0a 48   CH * HTT P/1.1··H
0040  4f 53 54 3a 20 32 33 39  2e 32 35 35 2e 32 35 35   OST: 239 .255.255
0050  2e 32 35 30 3a 31 39 30  30 0d 0a 4d 41 4e 3a 20   .250:190 0··MAN:
0060  22 73 73 64 70 3a 64 69  73 63 6f 76 65 72 22 0d   "ssdp:di scover"·
0070  0a 4d 58 3a 20 35 0d 0a  53 54 3a 20 75 72 6e 3a   ·MX: 5·· ST: urn:
0080  61 69 72 74 61 6d 65 2d  63 6f 6d 3a 64 65 76 69   airtame- com:devi
```

Request: Boolean || Packets: 1740 · Displayed: 4 (0.2%) · Dropped: 0 (0.0%) || Profile: Default

- http.response.code
- http.response.code ==200

- tcp.flags.syn


*Wi-Fi
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tcp.flags.syn

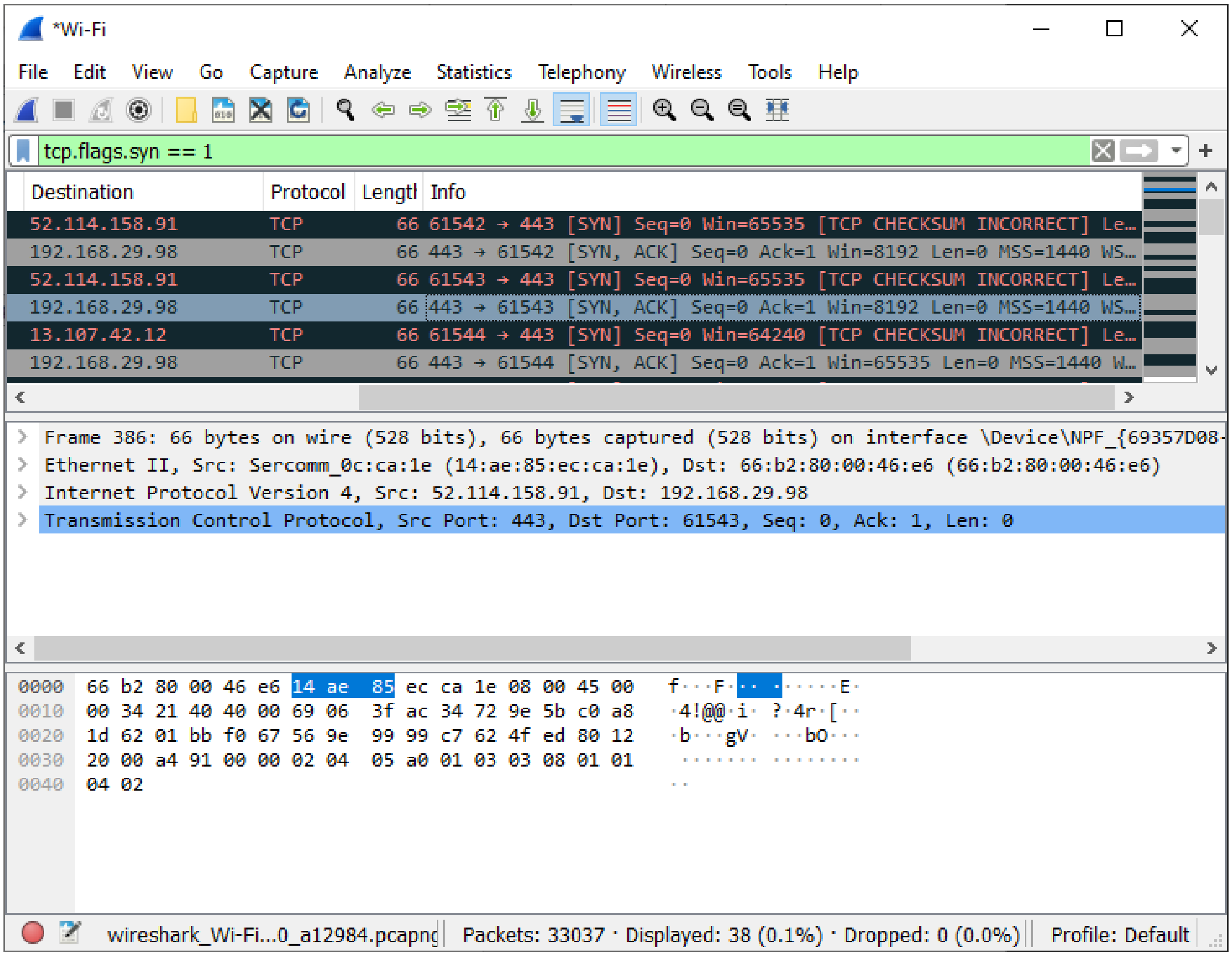
```
No.   Time       Source          Destination     Protocol Lengtl Info
   10 0.161524   52.40.45.67     192.168.29.98   TLSv1.2    85 Application Data
   14 0.203173   192.168.29.98   52.40.45.67     TCP        54 61182 → 8883 [ACK] S
   23 0.320367   192.168.29.98   52.111.240.8    TLSv1.2    89 Application Data
   28 0.402752   52.111.240.8    192.168.29.98   TCP        54 443 → 60926 [ACK] Se
  151 0.976886   192.168.29.98   52.114.158.91   TCP        66 61542 → 443 [SYN] Se
  183 1.191200   52.114.158.91   192.168.29.98   TCP        66 443 → 61542 [SYN, AC
```

```
> Frame 10: 85 bytes on wire (680 bits), 85 bytes captured (680 bits) on interface \Device\NPF_{69357D08-8
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.40.45.67, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 8883, Dst Port: 61182, Seq: 1, Ack: 1, Len: 31
> Transport Layer Security
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 47 68 e0 40 00 e1 06  f1 5a 34 28 2d 43 c0 a8   ·Gh·@··· ·Z4(-C··
0020  1d 62 22 b3 ee fe 87 f5  83 d0 87 0e 9a 0a 50 18   ·b"····· ······P·
0030  00 bd 91 ce 00 00 17 03  03 00 1a 00 00 00 00 00   ········ ········
0040  00 0e 36 c4 1c 92 d3 1e  3b c6 b6 28 a3 5f aa db   ··6····· ;··(·_··
0050  a4 92 84 d7 db                                     ·····
```

Syn: Boolean || Packets: 33037 · Displayed: 4111 (12.4%) · Dropped: 0 (0.0%) || Profile: Default

- tcp.flags.syn ==1



*Wi-Fi
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```
tcp.flags.syn == 1
```

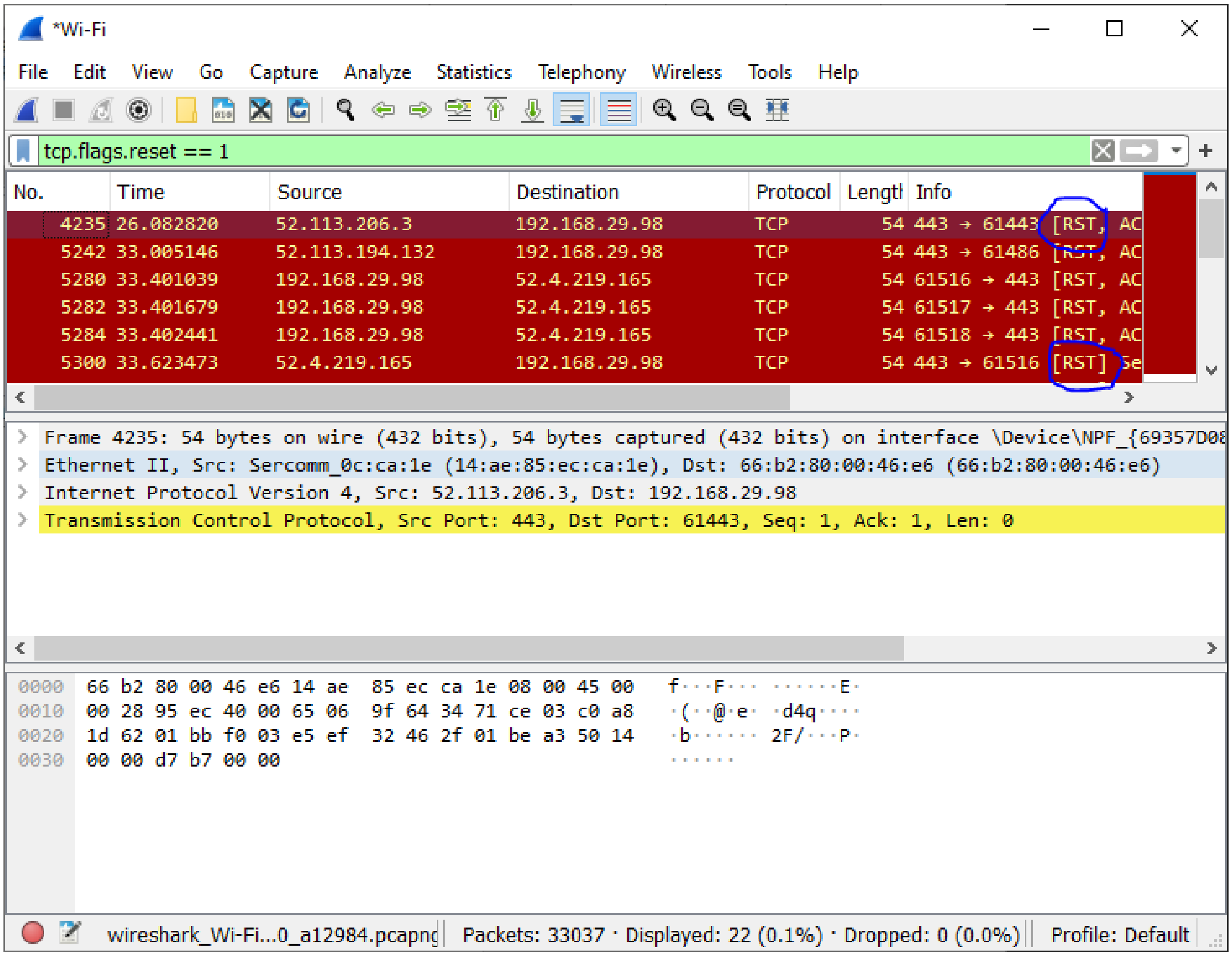
```
Destination       Protocol  Length  Info
52.114.158.91     TCP       66 61542 → 443 [SYN] Seq=0 Win=65535 [TCP CHECKSUM INCORRECT] Le…
192.168.29.98     TCP       66 443 → 61542 [SYN, ACK] Seq=0 Ack=1 Win=8192 Len=0 MSS=1440 WS…
52.114.158.91     TCP       66 61543 → 443 [SYN] Seq=0 Win=65535 [TCP CHECKSUM INCORRECT] Le…
192.168.29.98     TCP       66 443 → 61543 [SYN, ACK] Seq=0 Ack=1 Win=8192 Len=0 MSS=1440 WS…
13.107.42.12      TCP       66 61544 → 443 [SYN] Seq=0 Win=64240 [TCP CHECKSUM INCORRECT] Le…
192.168.29.98     TCP       66 443 → 61544 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1440 W…
```

```
> Frame 386: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{69357D08-
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.114.158.91, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61543, Seq: 0, Ack: 1, Len: 0
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 34 21 40 40 00 69 06  3f ac 34 72 9e 5b c0 a8   ·4!@@·i· ?·4r·[··
0020  1d 62 01 bb f0 67 56 9e  99 99 c7 62 4f ed 80 12   ·b···gV· ···bO···
0030  20 00 a4 91 00 00 02 04  05 a0 01 03 03 08 01 01    ······· ········
0040  04 02                                              ··
```

```
wireshark_Wi-Fi...0_a12984.pcapng | Packets: 33037 · Displayed: 38 (0.1%) · Dropped: 0 (0.0%) | Profile: Default
```

- tcp.flags.reset ==1



*Wi-Fi
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```
tcp.flags.reset == 1
```

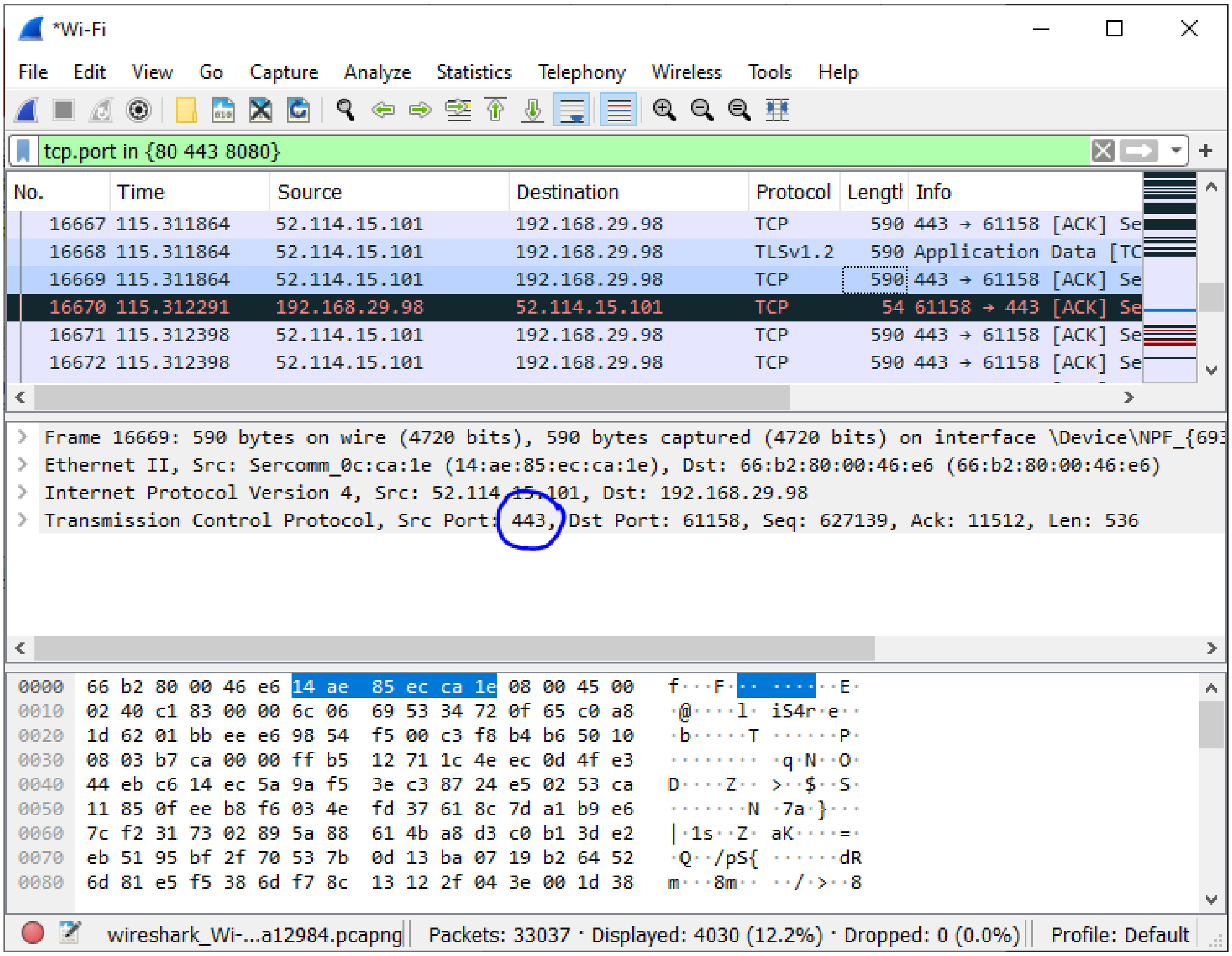
```
No.   Time       Source          Destination    Protocol Lengtl Info
 4235 26.082820  52.113.206.3    192.168.29.98  TCP      54 443 → 61443 [RST, AC
 5242 33.005146  52.113.194.132  192.168.29.98  TCP      54 443 → 61486 [RST, AC
 5280 33.401039  192.168.29.98   52.4.219.165   TCP      54 61516 → 443 [RST, AC
 5282 33.401679  192.168.29.98   52.4.219.165   TCP      54 61517 → 443 [RST, AC
 5284 33.402441  192.168.29.98   52.4.219.165   TCP      54 61518 → 443 [RST, AC
 5300 33.623473  52.4.219.165    192.168.29.98  TCP      54 443 → 61516 [RST] Se
```

```
> Frame 4235: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{69357D08
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.113.206.3, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61443, Seq: 1, Ack: 1, Len: 0
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  00 28 95 ec 40 00 65 06  9f 64 34 71 ce 03 c0 a8   ·(··@·e· ·d4q····
0020  1d 62 01 bb f0 03 e5 ef  32 46 2f 01 be a3 50 14   ·b······ 2F/···P·
0030  00 00 d7 b7 00 00                                  ······
```

```
wireshark_Wi-Fi...0_a12984.pcapng | Packets: 33037 · Displayed: 22 (0.1%) · Dropped: 0 (0.0%) | Profile: Default
```

- tcp.port in {80 443 8080}



*Wi-Fi
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```
tcp.port in {80 443 8080}
```

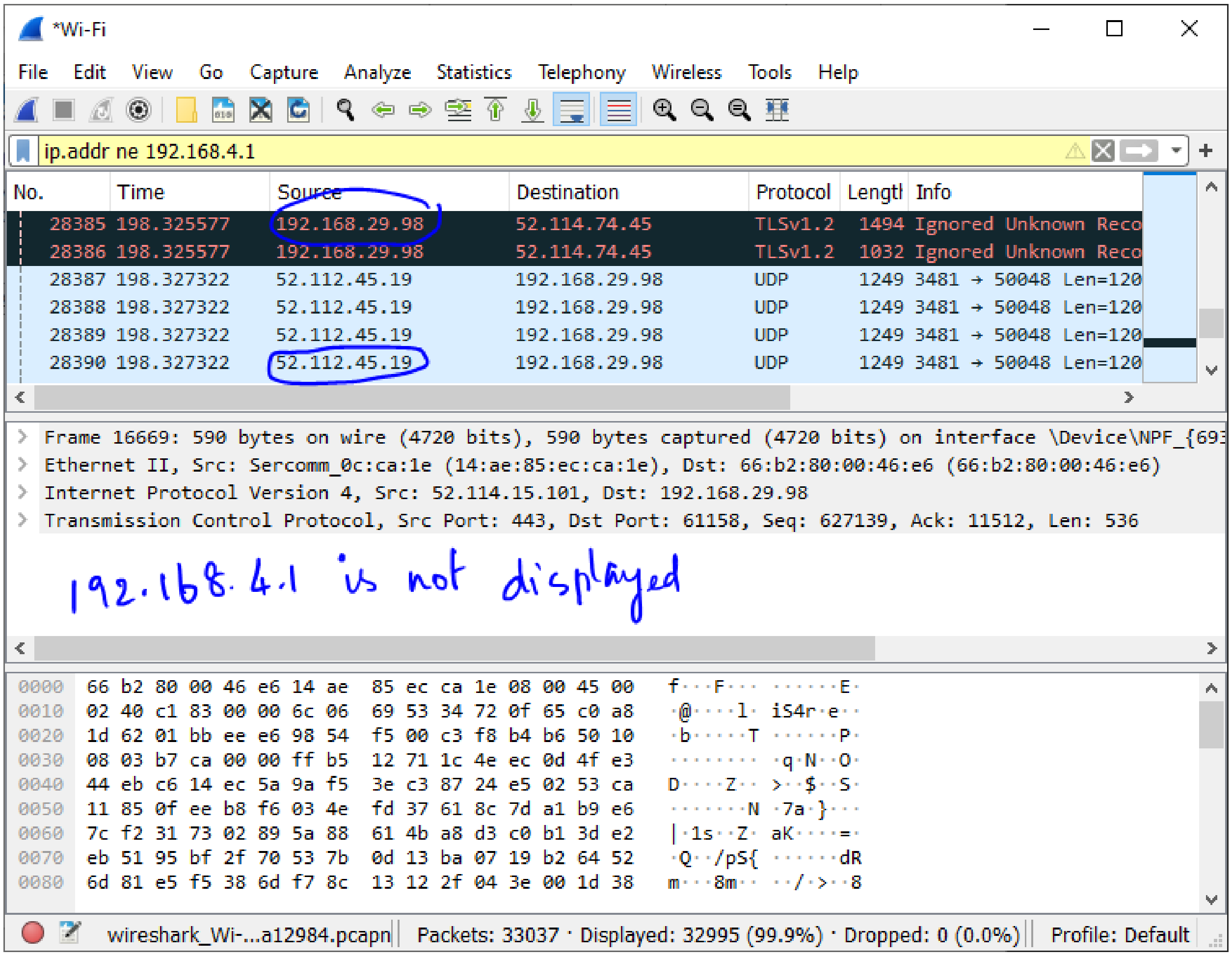
```
No.    Time        Source          Destination     Protocol  Lengtl Info
 16667 115.311864  52.114.15.101   192.168.29.98   TCP         590 443 → 61158 [ACK] Se
 16668 115.311864  52.114.15.101   192.168.29.98   TLSv1.2     590 Application Data [TC
 16669 115.311864  52.114.15.101   192.168.29.98   TCP         590 443 → 61158 [ACK] Se
 16670 115.312291  192.168.29.98   52.114.15.101   TCP          54 61158 → 443 [ACK] Se
 16671 115.312398  52.114.15.101   192.168.29.98   TCP         590 443 → 61158 [ACK] Se
 16672 115.312398  52.114.15.101   192.168.29.98   TCP         590 443 → 61158 [ACK] Se
```

```
> Frame 16669: 590 bytes on wire (4720 bits), 590 bytes captured (4720 bits) on interface \Device\NPF_{69
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.114.15.101, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61158, Seq: 627139, Ack: 11512, Len: 536
```

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  02 40 c1 83 00 00 6c 06  69 53 34 72 0f 65 c0 a8   ·@····l· iS4r·e··
0020  1d 62 01 bb ee e6 98 54  f5 00 c3 f8 b4 b6 50 10   ·b·····T ······P·
0030  08 03 b7 ca 00 00 ff b5  12 71 1c 4e ec 0d 4f e3   ········ ·q·N··O·
0040  44 eb c6 14 ec 5a 9a f5  3e c3 87 24 e5 02 53 ca   D····Z·· >··$··S·
0050  11 85 0f ee b8 f6 03 4e  fd 37 61 8c 7d a1 b9 e6   ·······N ·7a·}···
0060  7c f2 31 73 02 89 5a 88  61 4b a8 d3 c0 b1 3d e2   |·1s··Z· aK····=·
0070  eb 51 95 bf 2f 70 53 7b  0d 13 ba 07 19 b2 64 52   ·Q··/pS{ ······dR
0080  6d 81 e5 f5 38 6d f7 8c  13 12 2f 04 3e 00 1d 38   m···8m·· ··/·>··8
```

wireshark_Wi-...a12984.pcapng | Packets: 33037 · Displayed: 4030 (12.2%) · Dropped: 0 (0.0%) | Profile: Default

- ip.addr ne 192.168.4.1



*Wi-Fi
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```
ip.addr ne 192.168.4.1
```

```
No.    Time        Source          Destination     Protocol  Length Info
 28385 198.325577  192.168.29.98   52.114.74.45    TLSv1.2   1494 Ignored Unknown Reco
 28386 198.325577  192.168.29.98   52.114.74.45    TLSv1.2   1032 Ignored Unknown Reco
 28387 198.327322  52.112.45.19    192.168.29.98   UDP       1249 3481 → 50048 Len=120
 28388 198.327322  52.112.45.19    192.168.29.98   UDP       1249 3481 → 50048 Len=120
 28389 198.327322  52.112.45.19    192.168.29.98   UDP       1249 3481 → 50048 Len=120
 28390 198.327322  52.112.45.19    192.168.29.98   UDP       1249 3481 → 50048 Len=120
```

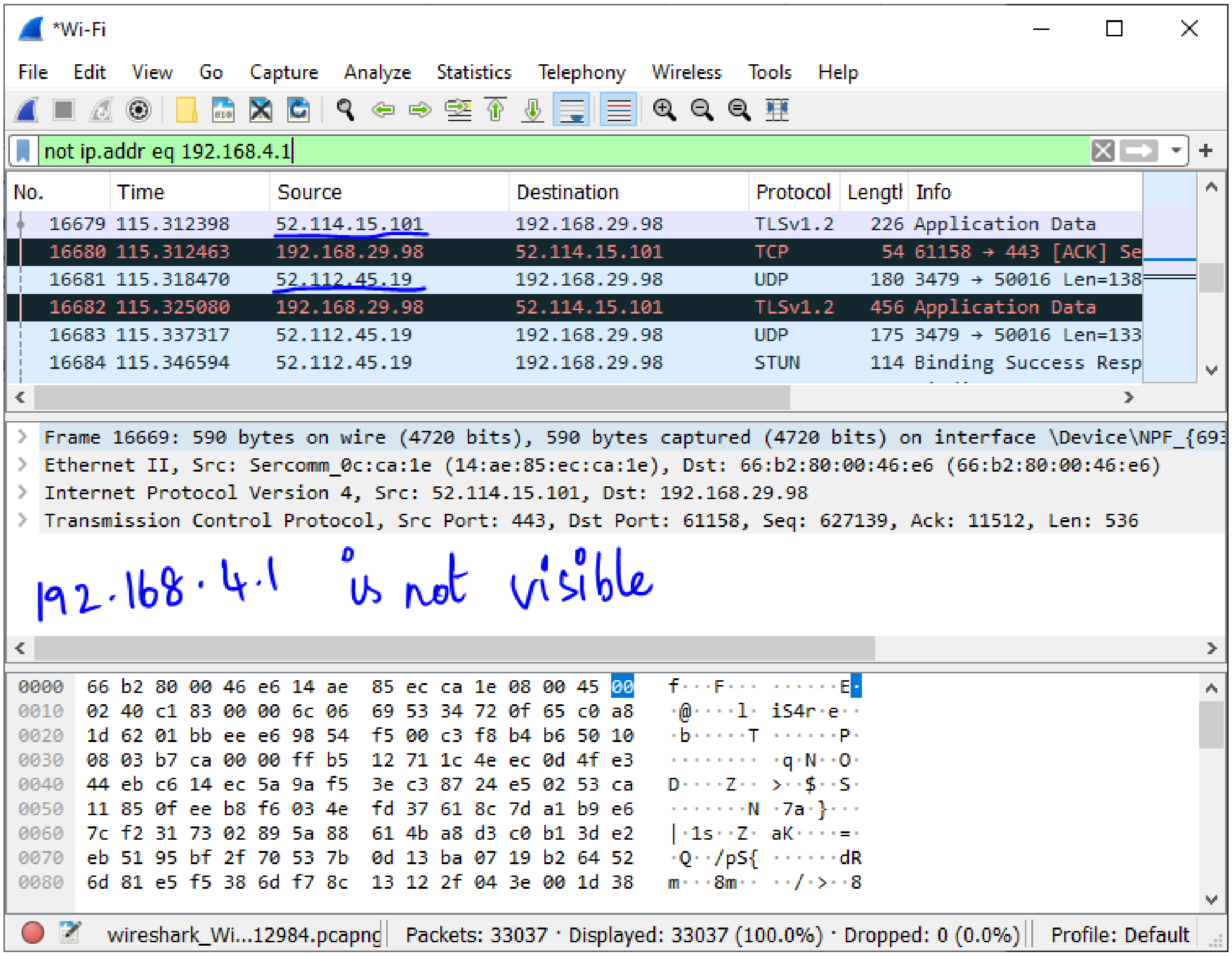
```
> Frame 16669: 590 bytes on wire (4720 bits), 590 bytes captured (4720 bits) on interface \Device\NPF_{693
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.114.15.101, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61158, Seq: 627139, Ack: 11512, Len: 536
```

192.168.4.1 is not displayed

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  02 40 c1 83 00 00 6c 06  69 53 34 72 0f 65 c0 a8   ·@····l· iS4r·e··
0020  1d 62 01 bb ee e6 98 54  f5 00 c3 f8 b4 b6 50 10   ·b·····T ······P·
0030  08 03 b7 ca 00 00 ff b5  12 71 1c 4e ec 0d 4f e3   ········ ·q·N··O·
0040  44 eb c6 14 ec 5a 9a f5  3e c3 87 24 e5 02 53 ca   D····Z·· >··$··S·
0050  11 85 0f ee b8 f6 03 4e  fd 37 61 8c 7d a1 b9 e6   ·······N ·7a·}···
0060  7c f2 31 73 02 89 5a 88  61 4b a8 d3 c0 b1 3d e2   |·1s··Z· aK····=·
0070  eb 51 95 bf 2f 70 53 7b  0d 13 ba 07 19 b2 64 52   ·Q··/pS{ ······dR
0080  6d 81 e5 f5 38 6d f7 8c  13 12 2f 04 3e 00 1d 38   m···8m·· ··/·>··8
```

wireshark_Wi-...a12984.pcapn | Packets: 33037 · Displayed: 32995 (99.9%) · Dropped: 0 (0.0%) | Profile: Default

- not ip.addr eq 192.168.4.1



*Wi-Fi
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not ip.addr eq 192.168.4.1

```
No.    Time        Source          Destination     Protocol  Length Info
 16679 115.312398  52.114.15.101   192.168.29.98   TLSv1.2    226 Application Data
 16680 115.312463  192.168.29.98   52.114.15.101   TCP         54 61158 → 443 [ACK] Se
 16681 115.318470  52.112.45.19    192.168.29.98   UDP        180 3479 → 50016 Len=138
 16682 115.325080  192.168.29.98   52.114.15.101   TLSv1.2    456 Application Data
 16683 115.337317  52.112.45.19    192.168.29.98   UDP        175 3479 → 50016 Len=133
 16684 115.346594  52.112.45.19    192.168.29.98   STUN       114 Binding Success Resp
```

```
> Frame 16669: 590 bytes on wire (4720 bits), 590 bytes captured (4720 bits) on interface \Device\NPF_{693
> Ethernet II, Src: Sercomm_0c:ca:1e (14:ae:85:ec:ca:1e), Dst: 66:b2:80:00:46:e6 (66:b2:80:00:46:e6)
> Internet Protocol Version 4, Src: 52.114.15.101, Dst: 192.168.29.98
> Transmission Control Protocol, Src Port: 443, Dst Port: 61158, Seq: 627139, Ack: 11512, Len: 536
```

192.168.4.1 is not visible

```
0000  66 b2 80 00 46 e6 14 ae  85 ec ca 1e 08 00 45 00   f···F··· ······E·
0010  02 40 c1 83 00 00 6c 06  69 53 34 72 0f 65 c0 a8   ·@····l· iS4r·e··
0020  1d 62 01 bb ee e6 98 54  f5 00 c3 f8 b4 b6 50 10   ·b·····T ······P·
0030  08 03 b7 ca 00 00 ff b5  12 71 1c 4e ec 0d 4f e3   ········ ·q·N··O·
0040  44 eb c6 14 ec 5a 9a f5  3e c3 87 24 e5 02 53 ca   D····Z·· >··$··S·
0050  11 85 0f ee b8 f6 03 4e  fd 37 61 8c 7d a1 b9 e6   ·······N ·7a·}···
0060  7c f2 31 73 02 89 5a 88  61 4b a8 d3 c0 b1 3d e2   |·1s··Z· aK····=·
0070  eb 51 95 bf 2f 70 53 7b  0d 13 ba 07 19 b2 64 52   ·Q··/pS{ ······dR
0080  6d 81 e5 f5 38 6d f7 8c  13 12 2f 04 3e 00 1d 38   m···8m·· ··/·>··8
```

wireshark_Wi...12984.pcapng | Packets: 33037 · Displayed: 33037 (100.0%) · Dropped: 0 (0.0%) | Profile: Default