

Capturing from Wi-Fi

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htls

No.	Time	Source	Destination	Protocol	Length	Info
362	33.286420	192.168.29.32	52.167.17.97	TLSv1.2	212	Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
363	33.586598	52.167.17.97	192.168.29.32	TLSv1.2	105	Change Cipher Spec, Encrypted Handshake Message
364	33.586598	52.167.17.97	192.168.29.32	TLSv1.2	123	Application Data
366	33.593393	192.168.29.32	52.167.17.97	TLSv1.2	141	Application Data
367	33.593446	192.168.29.32	52.167.17.97	TLSv1.2	1916	Application Data
368	33.593647	192.168.29.32	52.167.17.97	TLSv1.2	92	Application Data
369	33.894359	52.167.17.97	192.168.29.32	TLSv1.2	92	Application Data
372	34.203107	52.167.17.97	192.168.29.32	TLSv1.2	424	Application Data
375	34.507833	52.167.17.97	192.168.29.32	TLSv1.2	96	Application Data
380	34.533884	192.168.29.32	52.167.17.97	TLSv1.2	268	Client Hello (SN=settings-win.data.microsoft.com)
381	34.815715	52.167.17.97	192.168.29.32	TCP	2974	443 → 57690 [ACK] Seq=1 Ack=215 Win=194304 Len=2920
383	34.816221	52.167.17.97	192.168.29.32	TLSv1.2	892	Server Hello, Certificate, Server Key Exchange, Server Hello Done
384	34.819678	192.168.29.32	52.167.17.97	TLSv1.2	212	Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
385	35.124214	52.167.17.97	192.168.29.32	TLSv1.2	105	Change Cipher Spec, Encrypted Handshake Message
386	35.124214	52.167.17.97	192.168.29.32	TLSv1.2	123	Application Data
388	35.130708	192.168.29.32	52.167.17.97	TLSv1.2	141	Application Data
389	35.130829	192.168.29.32	52.167.17.97	TLSv1.2	600	Application Data
390	35.130987	192.168.29.32	52.167.17.97	TLSv1.2	92	Application Data
392	35.429915	52.167.17.97	192.168.29.32	TLSv1.2	92	Application Data
394	35.737006	52.167.17.97	192.168.29.32	TLSv1.2	378	Application Data
396	36.045307	52.167.17.97	192.168.29.32	TLSv1.2	96	Application Data

Frame 18: 563 bytes on wire (4504 bits), 563 bytes captured (4504 bits) on interface \Device\NPF\_{EC0E13...}

Ethernet II, Src: Intel\_37:26:8e (d0:65:78:37:26:8e), Dst: ServercomPri\_f6:27:6b (d8:78:c9:f6:27:6b)

Internet Protocol Version 6, Src: 2405:201:3013:f0b8:7c6d:b6db:b3d4:761, Dst: 2620:1ec:bdf:68

Transmission Control Protocol, Src Port: 57666, Dst Port: 443, Seq: 1, Ack: 1, Len: 489

Transport Layer Security

0000 d8 78 c9 f6 27 6b d0 65 78 37 26 8e 86 dd 60 00 x'k' e x78 -E

0010 cc 2e 01 fd 06 40 24 05 02 01 30 13 f0 b8 7c 6d 00 \$ -0 -m

0020 b6 db b3 d4 07 61 26 20 01 ec 0b df 00 00 00 00 ... a& -

0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ... h B - X -

0040 b7 ae 50 18 00 ff 6b a7 00 00 16 03 01 01 ea 01 ... k -

0050 00 01 e0 03 03 7e 96 8f f6 66 0c 51 d6 d0 07 73 ... y f Q -

0060 8f e8 e4 4b b2 ac a4 79 5e 59 74 dd 43 f4 a3 4c ... K y ^Yt C - L

0070 48 89 26 b4 88 20 31 b0 fa 45 45 8a a8 a7 18 95 H & - 1 - EE -

0080 51 7d c1 9d 3d e1 4d 99 c7 c4 fe 61 6f 99 16 73 Q) - m - a -

0090 ea f4 17 b0 09 9c 00 2b 13 02 13 01 c0 2c c0 2b ... ( -

00a0 c0 30 c0 2f c0 24 c0 23 c0 28 c0 27 c0 0a c0 0e ... 0 / \$ # -

00b0 c0 14 c0 13 00 9d 00 9c 00 3d 00 3c 00 35 00 2f ... = < S /

00c0 01 00 01 6f 00 00 00 2c 00 2a 00 00 27 70 72 6f ... y - - - - -

00d0 64 2e 63 6c 69 65 6e 74 2e 77 6f 73 63 2a 73 65 d.c - l - e - m - o - s - c -

00e0 72 76 69 63 65 73 2e 6d 69 63 72 6f 73 6f 66 74 r - v - i - c - e -

00f0 2e 63 6f 6d 00 05 05 01 00 00 00 00 2b 00 c - o - m -

0100 05 04 03 04 03 03 00 0d 00 1a 00 18 08 04 08 05 ... +

0110 08 06 04 01 05 01 02 01 04 03 05 03 02 03 02 02 ... - - - - -

0120 06 01 06 03 00 23 00 00 00 00 00 00 00 00 00 ... - - - - -

0130 00 17 00 18 00 00 00 02 01 00 00 10 00 0e 00 0c ... - - - - -

0140 02 68 32 08 68 74 74 70 2f 31 2e 31 00 33 00 0d ... h2 http / 1.1 3 -

0150 00 ce 00 1d 00 20 86 cd 2e c1 f7 b0 cf 49 47 dd ... - - - - -

0160 c1 7b 44 bd 9c 45 f3 86 a1 b4 f1 76 6f 5c 53 ea ... (D - E - - - -

0170 e9 cc 87 75 45 0b 00 17 00 01 04 2a 7d 97 59 a5 ... u - E - - - -

0180 c8 a5 aa e0 c1 ac ee 50 ad 2c bf 74 58 78 a9 16 ... - - - - -

0190 3a 49 1c d7 10 9c b9 fc 5e 80 1a ec 27 f7 14 a9 ... I - - - - -

01a0 59 9f 9f 21 3c 92 02 80 50 2d 55 05 39 ec ad 95 ... Y - - - - -

01b0 68 e8 e9 c6 f4 de cb 6c 53 7e 53 00 18 00 61 04 ... - - - - -

01c0 28 16 04 b0 62 7f 60 ce 75 03 dd a0 01 0e 14 5d ... ( - - - - -

01d0 91 e5 29 26 95 02 84 52 a0 18 cd 93 86 76 47 85 ... - - - - -

Packets: 398 - Displayed: 143 (35.9%) Profile: Default

## ➤ Protocol-Https(tls)

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http

No.	Time	Source	Destination	Protocol	Length	Info
7514	383.054741	192.168.29.32	69.43.111.82	HTTP	491	GET /~/grovesd/comm244/notes/week2/links HTTP/1.1
7523	383.392131	69.43.111.82	192.168.29.32	HTTP	661	HTTP/1.1 200 OK (text/html)
7530	383.465515	192.168.29.32	69.43.111.82	HTTP	447	GET /~/grovesd/comm244/css/notes.css HTTP/1.1
7532	383.466064	192.168.29.32	69.43.111.82	HTTP	430	GET /~/grovesd/comm244/js/prism.js HTTP/1.1
7610	383.724906	192.168.29.32	69.43.111.82	HTTP	505	GET /~/grovesd/comm244/notes/week2/ur1-pants.jpg HTTP/1.1
7616	383.727512	69.43.111.82	192.168.29.32	HTTP	373	HTTP/1.1 200 OK (application/javascript)
7620	383.730117	192.168.29.32	69.43.111.82	HTTP	521	GET /~/grovesd/comm244/notes/week2/recipebook-site-structure.png HTTP/1.1
7636	383.738749	69.43.111.82	192.168.29.32	HTTP	1482	HTTP/1.1 200 OK (text/css)
7672	383.913482	192.168.29.32	69.43.111.82	HTTP	513	GET /~/grovesd/comm244/notes/week2/rb-site-structure.png HTTP/1.1
7693	383.999357	69.43.111.82	192.168.29.32	HTTP	464	HTTP/1.1 200 OK (PNG)
7798	384.181190	69.43.111.82	192.168.29.32	HTTP	628	HTTP/1.1 200 OK (PNG)
7805	384.239988	69.43.111.82	192.168.29.32	HTTP	396	HTTP/1.1 200 OK (JPEG JFIF image)
7807	384.253447	192.168.29.32	69.43.111.82	HTTP	474	GET /favicon.ico HTTP/1.1
7808	384.518245	69.43.111.82	192.168.29.32	HTTP	450	HTTP/1.1 404 Not Found (text/html)

Frame 7514: 491 bytes on wire (3928 bits), 491 bytes captured (3928 bits) on interface \Device\NPF\_{EC0E13...}

Ethernet II, Src: Intel\_37:26:8e (d0:65:78:37:26:8e), Dst: ServercomPri\_f6:27:6b (d8:78:c9:f6:27:6b)

Internet Protocol Version 4, Src: 192.168.29.32, Dst: 69.43.111.82

Transmission Control Protocol, Src Port: 57746, Dst Port: 80, Seq: 1, Ack: 1, Len: 437

Hypertext Transfer Protocol

0000 d8 78 c9 f6 27 6b d0 65 78 37 26 8e 08 00 45 00 x'k' e x78 -E

0010 01 dd db 25 40 00 80 06 00 00 c0 a8 1d 20 45 2b ... - - - - -

0020 6f 52 c1 92 00 50 7f c4 67 3e bf ab 43 48 50 1b ... - - - - -

0030 00 ff 94 15 00 00 47 a5 54 20 2f 76 67 72 6f 76 ... - - - - -

0040 65 73 64 2f 63 6f 6d 6d 32 34 34 2f 6e 6f 74 65 ... - - - - -

0050 73 2f 77 65 65 6b 32 2f 6c 69 6e 6b 73 20 48 54 ... - - - - -

0060 54 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 77 65 ... - - - - -

0070 62 2a 73 60 6d 6d 6f 73 2e 65 64 78 6d 0a 43 ... - - - - -

0080 6f 6e 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d ... - - - - -

0090 61 6c 69 76 65 0d 0a 55 70 67 72 61 64 65 2d 49 ... - - - - -

00a0 6e 73 65 63 75 72 65 2d 52 65 71 75 65 73 74 73 ... - - - - -

00b0 3a 20 31 0d 0a 55 73 65 72 2d 41 67 65 6e 74 3a ... - - - - -

00c0 20 4d 6f 7a 69 6c 6e 61 2f 35 2e 30 20 28 57 69 ... - - - - -

00d0 6e 64 6f 77 73 20 4e 54 20 31 30 2e 30 3b 20 57 ... - - - - -

00e0 69 6e 36 34 3b 20 78 35 34 29 20 41 70 70 6c 65 ... - - - - -

00f0 57 65 62 4b 69 74 2f 35 33 37 2e 33 36 20 28 4b ... - - - - -

0100 48 54 4d 4c 2c 20 6c 69 6b 65 20 47 65 63 6b 6f ... - - - - -

0110 29 20 43 68 72 6f 6d 65 2f 31 33 32 2e 30 2e 30 ... - - - - -

0120 2e 30 20 53 61 66 61 72 69 2f 35 33 37 2e 33 36 ... - - - - -

0130 0d 0a 41 63 63 65 70 74 3a 20 74 65 70 74 2f 6f ... - - - - -

0140 74 6d 6c 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f ... - - - - -

0150 78 68 74 6d 6c 2b 78 6d 6c 2c 61 70 70 6c 69 63 ... - - - - -

0160 61 74 69 6f 6e 2f 78 6d 6c 3b 71 3d 30 2e 39 2c ... - - - - -

0170 69 6d 6f 67 65 2f 61 76 69 6e 2c 69 6d 61 67 65 ... - - - - -

0180 2f 77 65 62 70 2c 69 6d 61 67 65 2f 61 70 6e 67 ... - - - - -

0190 2c 2a 2f 2a 3b 71 3d 30 2a 38 0d 0a 53 65 63 2d ... - - - - -

01a0 47 50 43 3a 20 31 0d 0a 41 63 63 65 70 74 2d 4c ... - - - - -

01b0 c1 6e 67 75 61 67 65 3a 20 65 6e 2d 55 53 2c 65 ... - - - - -

01c0 71 3d 30 2e 37 0d 0a 41 63 63 65 70 74 2d 20 ... - - - - -

01d0 63 6f 64 69 6e 67 3a 20 67 7a 69 70 2c 20 ... - - - - -

Packets: 7853 - Displayed: 14 (0.2%) Profile: Default

## ➤ Protocol-Http

```
Administrator: Windows Powe x + v
PS C:\Users\om445> ping www.google.com

Pinging www.google.com [2404:6800:4002:81c::2004] with 32 bytes of data:
Reply from 2404:6800:4002:81c::2004: time=41ms
Reply from 2404:6800:4002:81c::2004: time=69ms
Reply from 2404:6800:4002:81c::2004: time=48ms
Reply from 2404:6800:4002:81c::2004: time=65ms

Ping statistics for 2404:6800:4002:81c::2004:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 41ms, Maximum = 69ms, Average = 55ms
PS C:\Users\om445> |
```

➤ Ping

```
Administrator: Windows Powe x + v
PS C:\Users\om445> tracert www.google.com

Tracing route to www.google.com [2404:6800:4002:816::2004]
over a maximum of 30 hops:

  1  2 ms  1 ms  1 ms  2405:201:3013:f0b8:da78:c9ff:fef6:276b
  2  *      *      *      Request timed out.
  3  8 ms  4 ms  3 ms  2405:200:801:1200::1050
  4  9 ms  6 ms  5 ms  2405:200:801:1200::105e
  5  7 ms  21 ms  8 ms  2405:200:870:3168:61::6
  6  *      *      *      Request timed out.
  7  44 ms  20 ms  12 ms  2405:200:801:1200::4bc
  8  *      *      *      Request timed out.
  9  24 ms  18 ms  20 ms  2405:200:801:200::9b3
 10  *      *      *      Request timed out.
 11  23 ms  21 ms  18 ms  2404:6800:8119::1
 12  48 ms  91 ms  46 ms  2001:4860:0:1::2b6a
 13  50 ms  *      *      2001:4860:0:1::8760
 14  35 ms  37 ms  42 ms  2001:4860::9:4001:67bc
 15  37 ms  33 ms  48 ms  2001:4860::c:4004:2137
 16  49 ms  30 ms  48 ms  2001:4860::9:4001:ddce
 17  40 ms  *      *      2001:4860:0:1::77b1
 18  58 ms  32 ms  37 ms  2001:4860:0:1::42e5
 19  41 ms  33 ms  81 ms  del11s11-in-x04.1e100.net [2404:6800:4002:816::2004]

Trace complete.
PS C:\Users\om445>
```

➤ Tracert