Windows Trace File

Sunday, 23 January 2022 14

Starting a new WireShark trace on my VMNet network interface:

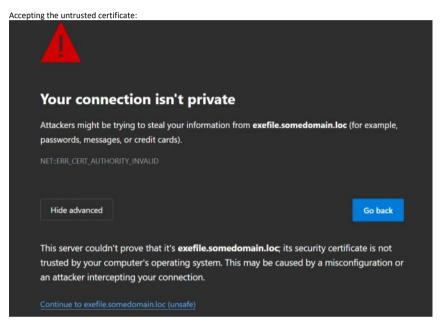


Browsing to the ZIP file

□ № New tab

× +

← → □ ⊕ https://exefile.somedomain.loc/RDCMan.zip



Trace File

192.168.72.1 - Client 192.168.72.130 - Server

```
66 58707 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
 39 3.566222 192.168.72.1 192.168.72.130 TCP
40 3.566587 192.168.72.130 192.168.72.1 TCP
                                                            66 443 → 58707 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1460 WS=256 SACK_PERM=1
41 3.566977 192.168.72.1 192.168.72.130 TCP
42 3.567715 192.168.72.1 192.168.72.130 TLSv1.2
                                                            54 58707 \rightarrow 443 [ACK] Seq=1 Ack=1 Win=1051136 Len=0
                                                           571 Client Hello
43 3.570630 192.168.72.130 192.168.72.1 TLSv1.2
                                                           13... Server Hello, Change Cipher Spec, Application Data
 44 3.571144 192.168.72.1 192.168.72.130 TLSv1.2
                                                           134 Change Cipher Spec, Application Data
45 3.571712 192.168.72.130 192.168.72.1 TLSv1.2
                                                           157 Application Data
                                                         116 Application Data
46 3.571939 192.168.72.130 192.168.72.1 TLSv1.2
47 3.571983 192.168.72.1 192.168.72.130 TCP
48 3.576720 192.168.72.1 192.168.72.130 TLSv1.2
                                                            54 58707 → 443 [ACK] Seq=598 Ack=1497 Win=1051136 Len=0
                                                         146 Application Data
 49 3.577032 192.168.72.130 192.168.72.1 TLSv1.2
                                                            85 Application Data
                                                         548 Application Data
50 3.579074 192.168.72.1 192.168.72.130 TLSv1.2
                                                           85 Application Data
51 3.579720 192.168.72.1 192.168.72.130 TLSv1.2
 52 3.579883 192.168.72.130 192.168.72.1
                                                            54 443 → 58707 [ACK] Seq=1528 Ack=1215 Win=2096640 Len=0
                                           TCP
53 3.581046 192.168.72.130 192.168.72.1 TCP
                                                         15... 443 → 58707 [ACK] Seq=1528 Ack=1215 Win=2096640 Len=1460 [TCP segment of a reassemble...
54 3.581143 192.168.72.130 192.168.72.1 TCP
                                                         15... 443 → 58707 [ACK] Seq=2988 Ack=1215 Win=2096640 Len=1460 [TCP segment of a reassemble...
55 3.581193 192.168.72.1 192.168.72.130 TCP
                                                           54 58707 → 443 [ACK] Seq=1215 Ack=4448 Win=1051136 Len=0
56 3.581244 192.168.72.130 192.168.72.1 TCP
                                                           15... 443 → 58707 [ACK] Seq=4448 Ack=1215 Win=2096640 Len=1460 [TCP segment of a reassemble...
 57 3.581270 192.168.72.130 192.168.72.1
                                            TCP
                                                          15... 443 → 58707 [ACK] Seq=5908 Ack=1215 Win=2096640 Len=1460 [TCP segment of a reassemble...
58 3.581291 192.168.72.1 192.168.72.130 TCP
                                                            54 58707 → 443 [ACK] Seq=1215 Ack=7368 Win=1051136 Len=0
59 3.581300 192.168.72.130 192.168.72.1 TCP
                                                          15... 443 → 58707 [ACK] Seg=7368 Ack=1215 Win=2096640 Len=1460 [TCP segment of a reassemble...
```

* 39-41 TCP Handshake

Client sends a request to start a TCP Session.
Server responds with a SYN,ACK, client sends back an ACK - session is good to go.
Client and server established a TCP three way handshake.

* 42-44 TLS Handshake

42 - Client sends a SSL\TLS1.2 Client Hello to start a the SSL\TLS1.2 handshake, And presents the server with the cypher suites, and all other TLS information

43 - server sends back a Server Hello message, and presents the client with the server certificate, the

selected cypher suite, and other information.

44 - the client sends back a "change cypher spec" (after the server has sent one), indicates that it will switch to encrypted communication from now on

45 - information payload in the packet is encrypted:

TCP Session for file download is starting