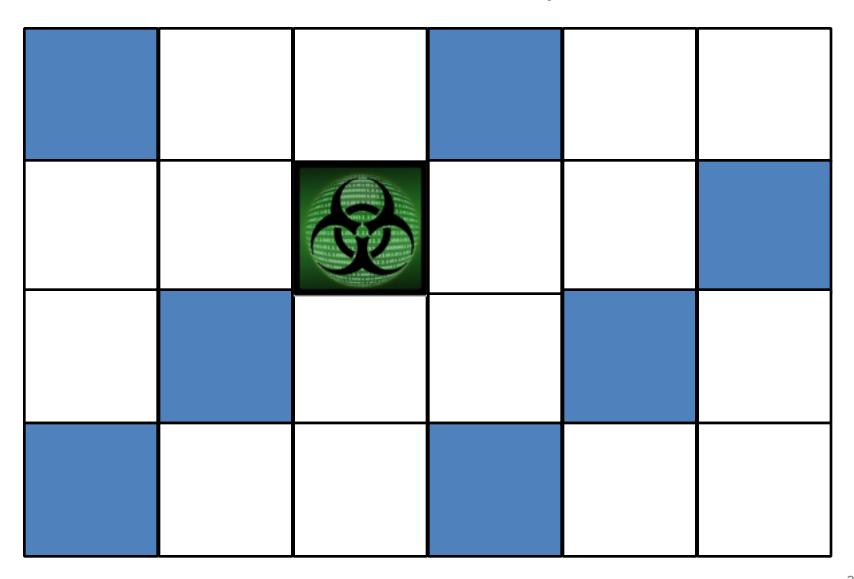
Malware Blocks

John Lukach

Needle-In-A-Haystack



Kaspersky Lab Analysis

```
68 60 13 01 00 6a 05
                                                                           J.N.....5....2...J......U
                           44 00 65 00
                                                  00 63 00 65 00 5c
02 fe c3 8a c3 5b
                                       76 00 69
                                                                           .....[.\.D.e.v.i.c.e.\
4b 00 65 00 79 00 62 00
                        6f 00 61 00 72 00 64 00
                                                  43 00 6c 00 61
                                                                           K.e.y.b.o.a.r.d.C.l.a.s
                                                  00 6c 00 61 00 73
                                 62 00
                                                                           .s.0....k.b.d.c.l.a.s
                                 00 55 8b
                                                    14 53 68 4e
                                 01 00
                                                  50 8d 45 f4 50
                         15 b8 02 01 00 85 c0 0f
00 10 00 8d 45
     c0 89 45
                                 00
                                    a1
8d 55 fc 52 50
                         84 c0 59 59 0f 84
                                                  00 00 8b
f8 8b 52 08 8b
                                                  50 ff 91 38
                                                  8b 52 08 8b
                                    f8
49 04 8b 49 0c
                                                  84 c0 59 59 0f
00 00 00 Sb
                                 04 8b
8b 49 0c 68 01
                                    01
                                                  c0 59 59 0f 84 b9
                                                  50 ff 91 2c 01
84 c0 59 59 0f 84 9a 00
                                 59 74 7f
04 8b 49 04 8b
                         7e 07 01
                                                  01 00 00 84 c0 59 59
                                                  68 31 c4 00 00 68
                         00 00 83
                                                  20 8b 45 fc 8b 48
                                 c4 10
                                                  00 00 84 c0 59 59
                                                  4d fc 51 ff 50 34 59
                         15 b0 02
                                 01 00
                                                  c9 c3 cc 55 8b
                         45 f8 50 6a 01 68 01 00
                                                  00 7f ff 35
              f4
00 c6 45 ff 00 32 db e8
                        b3 08 00 00 85 c0 75 26
                                                 83 7d f8 05 75 10 56
00 10 1C PI C1 U0
                                      (Regin module)
00 00 e8 3f fd ff
                                                                           ...?...hddk .5a...j....
```

bulk_extractor with hashdb

-S hashdb_mode =
 none
 import
 scan

identified_blocks.txt

scan_expanded_hash



VirusShare.com

Cluster Blocks

1,296,092,861

Sector Blocks

9,391,656,074



Block Characteristics

0123456789A BCDEF01234

0123456789A BCDEF01234 56789ABCDE F0123456789 A

55AA

NSRL Hash Set

File Hash

Block Hash

Index #

File Hash

Block Hash

Index #

File Hash

Block Hash

Index #

http://nsrl.nist.gov/ftp/MD5B512/

Bro

```
@load base/files/extract
@load base/files/hash
const block_size = 4096;
event file_state_remove(f: fa file){
  local i = 0;
  while ( i < f$seen_bytes){</pre>
     print md5($bof buffer[i:block size]);
     i = i + block size;
```

FileBlock.Info



- --blocks
- --view
- --list



https://github.com/jblukach/FileBlock.Info

Thanks!!

