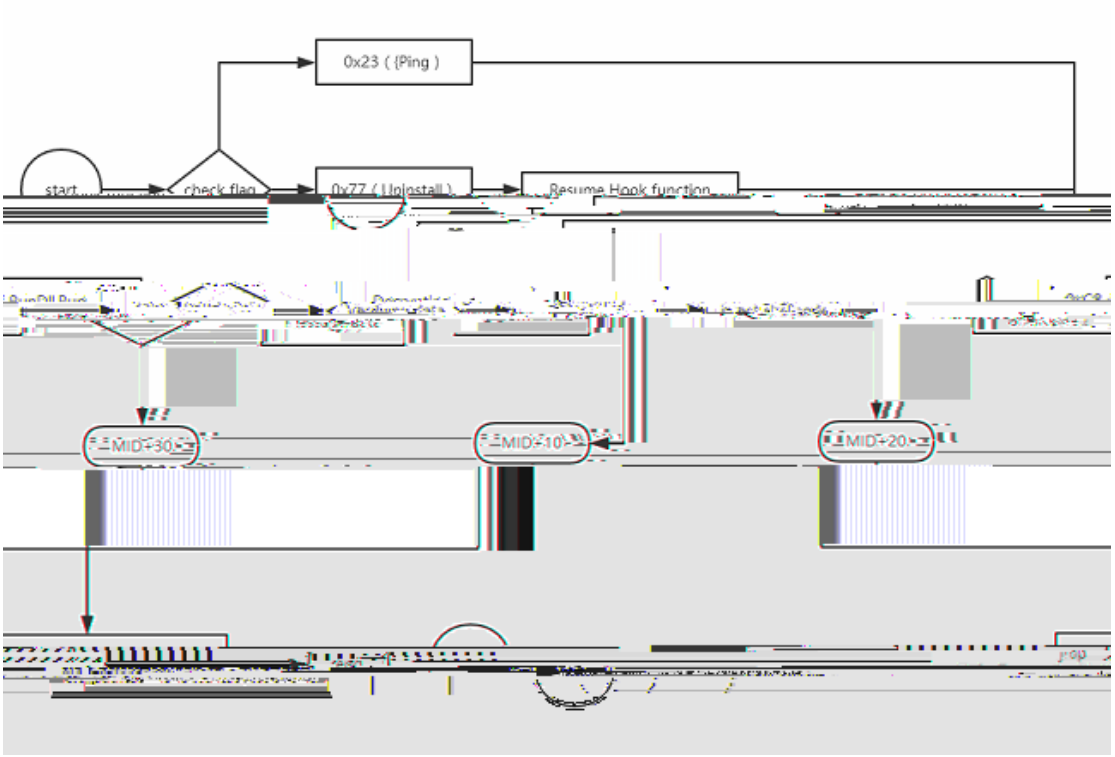
Shadow Brokers NSA DoublePulsar DoublePulsar

SMB RDP EternalBlue EternalRomance srv.sys SrvTransaction2DispatchTable 14 srv.sys SrvTransaction2DispatchTable 14 SrvTransactionNotImplemented SMB SMB_COM_TRANSACTION2 DoublePulsar SMB_COM_TRANSACTION2

1. SrvTransaction2DispatchTable

3.DoublePulsar

OutputInstall	shellcode RunShellcode
Ping	DoublePulsar
RunDLL RunShellcode	shellcode Dll



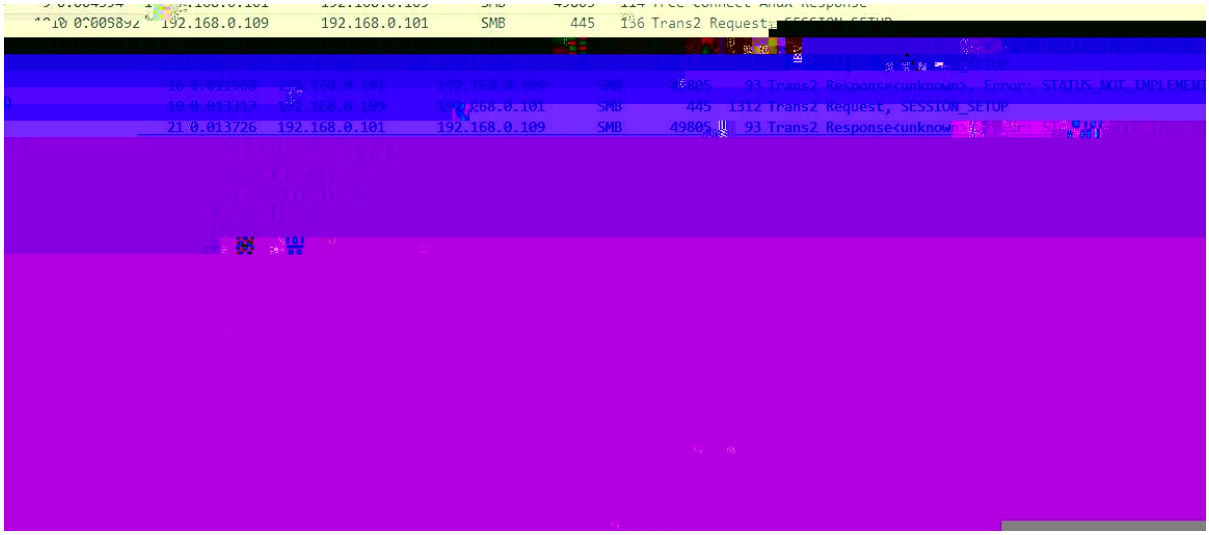
(1)CheckFlag

SMB_COM_TRANSACTION2

Timeout flag

```
seg000:86847194 sub_86847194    proc near               ; CODE XREF: start+30↑p
seg000:86847194                 xor     eax, eax
seg000:86847196                 mov     al, cl
seg000:86847198                 shr     ecx, 8
seg000:8684719B                 add     al, cl
seg000:8684719D                 shr     ecx, 8
seg000:868471A0                 add     al, cl
                                retn
sub_86847194    endp
                                                        seg000:868471A7
```

timeout 0x23



0x23	Ping
0x77	
0xc8	shellcode

(



SESSION_SETUP Data shellcode

a. shellcode

```
seg000:868470B1                 mov     esi, [eax]      ; shellcode size
seg000:868470B3                 xor     esi, [ebp+28h]  ; key
seg000:868470B6                 mov     edi, [eax+8]
seg000:868470B9                 xor     edi, [ebp+28h]
seg000:868470BC                 mov     eax, [eax+4]
seg000:868470BF                 xor     eax, [ebp+28h]
```

b. shellcode shellcode

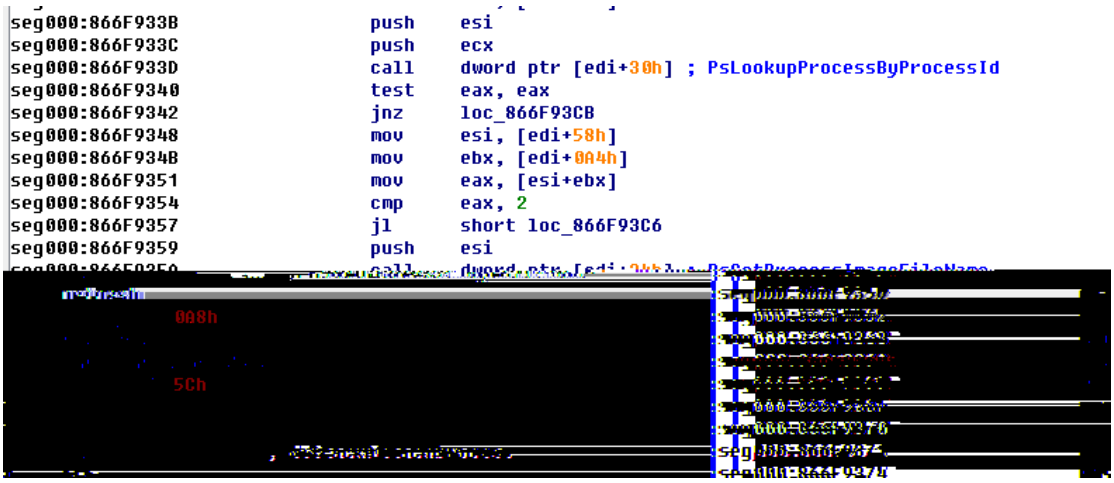
shellcode



c. Rundll shellcode IDT ntoskrnl.exe
IDT ntoskrnl.exe PE



d. PID lsass.exe



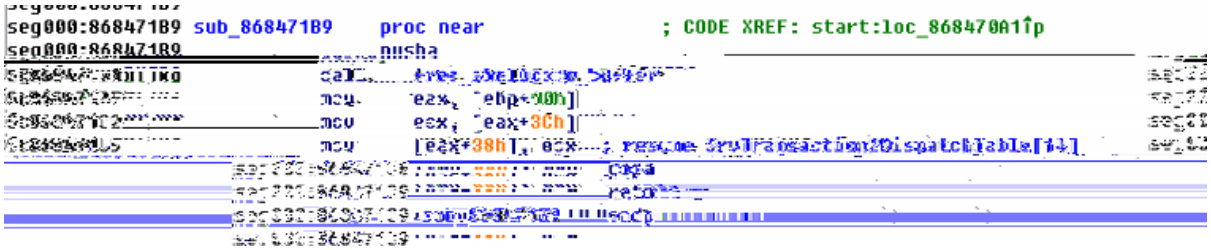
e. APC



(4)Uninstall

0x77

SrvTransaction2DispatchTable



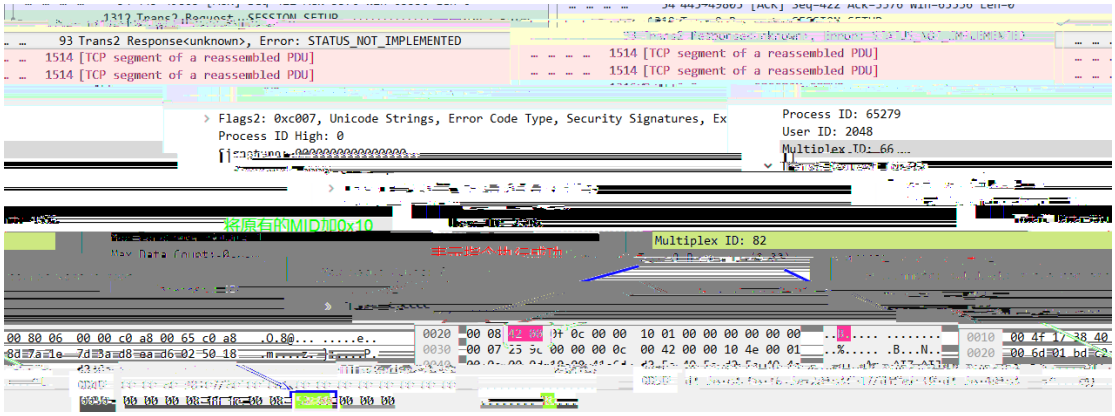
(5)

SrvTransactionNotImplemented

MID



MID+0x10	
MID+0x20	
MID+0x30	



VenusEye

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Hedwig Locky

18

Sage 2.0

Office 0day 2016

