### 软件构成:

公司加密软件经过分析,是由两个模块组成:

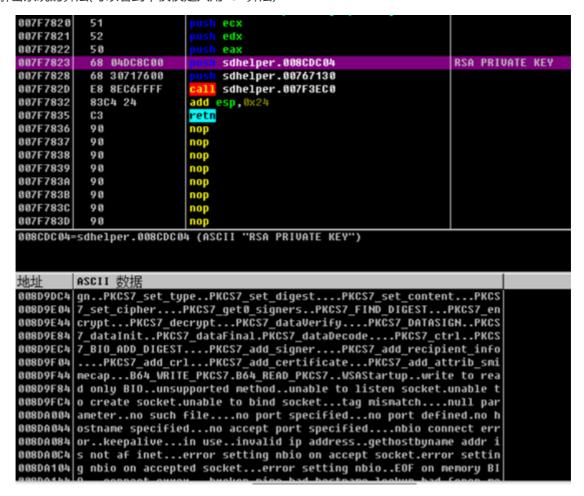
- (1) 加密系统: 加密系统一般都会遍历电脑所有的文档类文件(当然也包括规则的文件),并且对其存储的数据进行可逆的加密,所以一般存储在文件里的数据实际上已经被改写过,前面提到的,加密系统本身是主动去遍历加密的,所以一旦我们在系统中产生了新文件,加密系统的模块均会主动去尝试对产生的新文件进行加密工作,由于遍历操作的存在,电脑的性能急剧下降。
- (2) 解密系统:解密系统的机制,据我研究,其主要的技术应该是通过解密钩子来完成,原本在未安装加密软件系统上的执行流程为:文件->应用程序变成为文件->解密模块->应用程序。解密系统模块使用钩子去拦截系统中所有读取文件的请求,然后由解密模块为代理去读取文件,将加密的文件解密后再转发给应用程序。

#### 解密系统拦截读取文件如图:

 Schelper2.exe
 15604
 Inline
 0x000000074... Wininet.dllInternetWriteFile
 0x000000058... dtframe32.dllEATUninstalRaw+0x70830
 C://Wind.

 Schelper2.exe
 15604
 Inline
 0x000000074... Wininet.dllInternetReadFile
 0x0000000058... dtframe32.dllEATUninstalRaw+0x708c0
 C://Wind.

解密系统的算法(可以看到不仅仅是只用RSA算法)

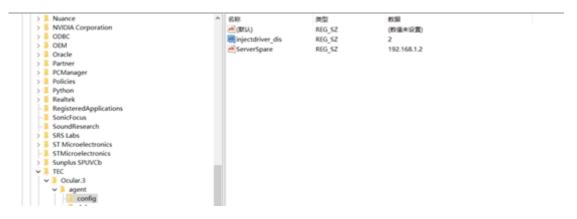


### 攻击

既然这个软件分为两个模块,那我们就只要把加密模块给弄掉,只留解密模块工作。

当然我在逆向加密模块的过程中,发现加密软件的配置信息位置:

#### 打开注册表:



据分析应该192.168.1.2为文件服务器地址。

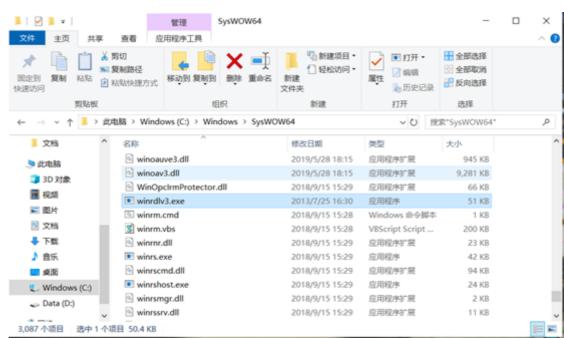
#### 我们可以找到该加密系统的驱动



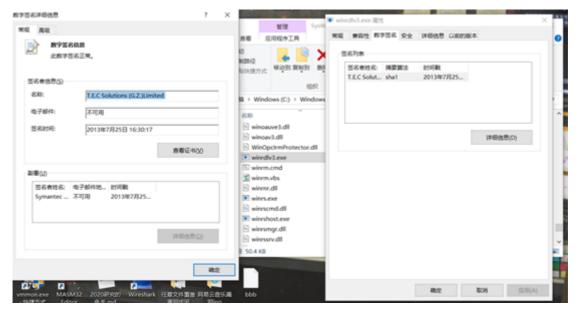
# 攻击1(此方法只能把加密软件给禁用,并不能阻止文档被加密)





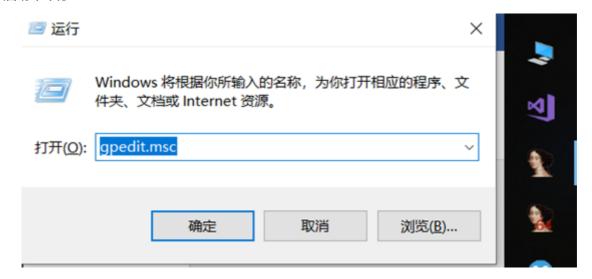


提取其签名:

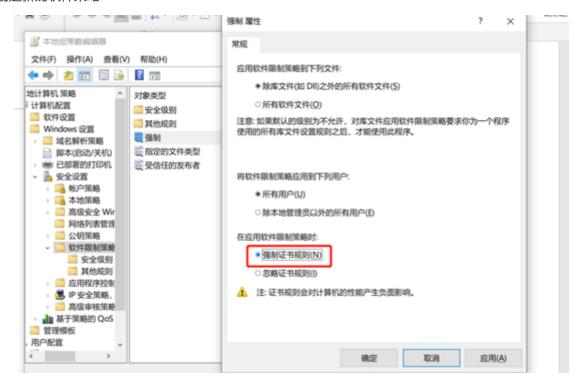


#### 禁用其数字证书:

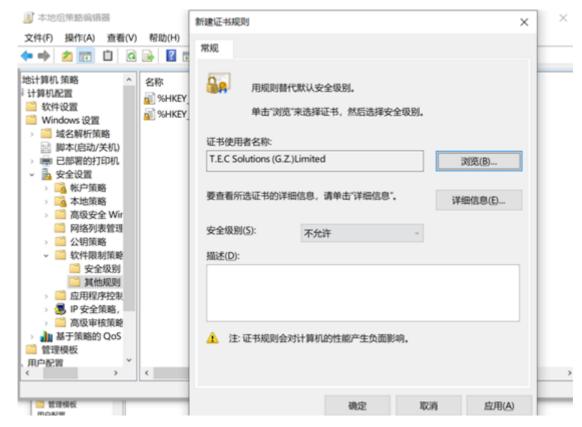
### 启动命令行:



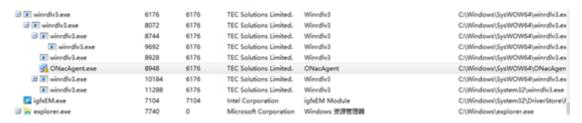
#### 创建新的软件策略:



新建证书规则:



重启发现进程中不存在加密软件, 右下角也没有图标:



需要恢复时,直接删除软件限制策略



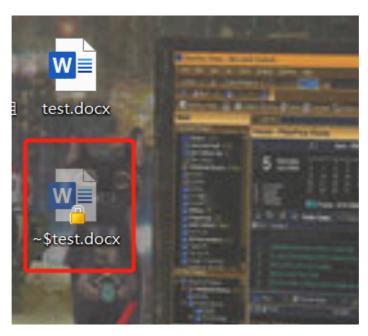
### 攻击方式二(有局限性)

### 注:此方法只能针对word、ppt等系列文档

首先, 先把文件的隐藏项打开:



在编辑新的文档时,先不要着急保存,只需要删除红色框框的文件即可(注:每次保存过后此文件又会出现,需要重新删除)



### 攻击方式三(极端(终极卸载))

### 方法一:

### 将驱动删除

TsdEncrypt.sys	0xFFFFF807561B0000	0x000DA000	0xFFFFB9088681ABA0	C:\Windows\system32\drivers\TsdEncrypt.sys
THIpDrv64.sys	0xFFFFF80756150000	0x0000C000	0xFFFF890886A68C80	C:\Windows\System32\Drivers\THlpDrv64.sys
TIjtdrv64.sys	0xFFFFF80756E20000	0x00019000	0xFFFFB90886803880	C:\Windows\System32\Drivers\TIjtdrv64.sys

#### 系统回调删除

0xFFFFF807561E9374	CreateProcess	C:\(Windows\/,system32drivers\),TsdEncrypt.sys	TEC Solutions Limited.
0xFFFFF80756E28F14	CreateProcess	C:/(Windowsl,System32\Drivers\/T)tdrv64.sys	TEC Solutions Limited.
0xFFFFF80756E28F7C	LoadImage	C:\()Windows\()System32\()Drivers\()T()tdnv64.sys	TEC Solutions Limited.
0xFFFFF8075622904C	Shutdown	C:/(Windows/pystem32\drivers\)TsdEncrypt.sys	TEC Solutions Limited.
0xFFFFF807562286E0	FsNotifyChange	C:\(Windowspystem32driversTsdEncrypt.sys	TEC Solutions Limited.

### 把钩子全都卸载

0x000100F5	WH_GETMESSAGE	0x00000000000A250	winrdly3.exe	7872	7620	C:/Windows/SystWOW64/winrdk/3.exe
0x000100F7	WH_KEYBOARD_LL	0x000000000000A020	winrdly3.exe	7872	7620	C:/Windows/Systi/OW64/winrdh/3.exe
0x00060115	WH_KEYBOARD	0x0000000000009800	winrdv3.exe	8344	7688	C:/Windows/Systi/OW64/winrdh/3.exe
0x000102DE	WH_GETMESSAGE	0x0000000000003720	windly3.exe	9608	7688	C:(Windows/SystWOW64)www.dk/3.exe
0x00080731	WH_MOUSE	0x000000000000A170	windly3.exe	8344	7688	C:/Windows/SystWOW64/winrdh/3.exe
0x00080739	WH_SYSMSGFETER	0x0000000000009550	windh/3.exe	8344	7688	C:\Windows\SystWOW64\pvinrdh/3.exe
0x00040761	WH_GETMESSAGE	0x0000000000008F90	windly3.exe	8344	7688	C:/Windows/SystWOW64/winrdh/3.exe
0x00060113	WH_SYSMSGFETER	0x000000000000A200	winrdly3.exe	8648	8552	C:/Windows/System32/winrdlv3.exe
0x00060117	WH_MOUSE	0x000000000000A300	winrdly3.exe	8648	8552	C:/Windows/System32/winrdiv3.exe
0x00060119	WH_GETMESSAGE	0x000000000000A1A0	winrdv3.exe	8648	8552	C:/(Windows/System32)winrdv3.exe
0x0001011F	WH_GETMESSAGE	0x0000000000146F90	windly3.exe	8876	8552	C:/Windows/System32\winrdv3.exe
0x00010121	WH_KEYBOARD_LL	0x0000000000132480	windly3.exe	8876	8552	C:/Windows/System32\winrdiv3.exe
0x00020269	WH_GETMESSAGE	0x00000000000008470	windly3.exe	10316	8552	C:/Windows/System32/winrdlv3.exe
0x00070741	WH_KEYBOARD	0x000000000000A260	windly3.exe	8648	8552	C:\Windows\System32\winrdiv3.exe

恢复inline

en(5) KERNEL32.DLL->CreateProcessA	0x000000076A33CE0->_		
en(5) KERNEL32.DLL->CreateProcessInternalW	0x000000076A33D60->_		
en(5) KERNEL32.DLL->CreateProcessW	0x000000076A18BA0->_		
en(5) KERNELBASE.dll->CreateProcessInternalW	0x000000007570A4E0->_		
en(5) WS2_32.dll->accept	0x000000074874AE0->_		
en(5) WS2_32.dll->closesocket	0x00000007487EAC0->_		
en(5) WS2_32.dll->connect	0x000000074875650->_		
en(5) WS2_32.dll->recv	0x0000000074881460->_		
en(5) WS2_32.dll->recvfrom	0x000000074874D50->_		
n(5) WS2_32.dll->send	0x000000074875750->_		
en(5) WS2_32.dll->sendto	0x000000074875550->_		
en(5) WS2_32.dll->shutdown	0x00000000748808D0->_		
n(5) WS2_32.dll->socket	0x000000007487BFA0->_		
en(5) WS2_32.dll->GetAddrInfoExW	0x0000000074878420->_		
n(5) WS2_32.dll->GetAddrInfoW	0x0000000074877B50->_		
en(5) WS2_32.dll->WSAConnect	0x00000000748A3C20->_		
n(5) WS2_32.dll->gethostbyname	0x00000007489DE30->_		
n(5) WS2_32.dll->WSAGetOverlappedResult	0x0000000074886DC0->_		
n(5) WS2_32.dll->WSAIoctl	0x000000007487EDD0->_		
n(5) WS2_32.dll->WSARecv	0x000000007487E0C0->_		
en(5) WS2_32.dll->WSASend	0x000000007487DDC0->_		
n(5) Wininet.dll->HttpEndRequestA	0x00000000736DA520->_		
en(5) Wininet.dll->HttpEndRequestW	0x0000000736DCBD0->_		
n(5) Wininet.dll->HttpOpenRequestA	0x000000073771FC0->_		
n(5) Wininet.dll->HttpOpenRequestW	0x0000000073684B60->_		
n(5) Wininet.dll->HttpQueryInfoA	0x00000007368DD80->_		
n(5) Wininet.dll->HttpQueryInfoW	0x000000007368BD80->_		
n(5) Wininet.dll->HttpSendRequestA	0x00000000736DAE40->_		
n(5) Wininet.dll->HttpSendRequestExA	0x00000000736DCAA0->_		
n(5) Wininet.dll->HttpSendRequestExW	0x0000000736D96B0->_		
n(5) Wininet.dll->HttpSendRequestW	0x0000000736986A0->_		
n(5) Wininet.dll->InternetCloseHandle	0x000000007368B410->_		
n(5) Wininet.dll->InternetConnectA	0x000000073747E40->_		
n(5) Wininet.dll->InternetConnectW	0x000000007367C150->_		
en(5) Wininet.dll->InternetReadFile	0x00000007368C090->_		
en(5) Wininet.dll->InternetWriteFile	0x0000000073667830->_		

### 把启动项删除

trmenushl64.dll(TRMenuShlExt) trmenushl64.dll(TRMenuShlExt) sdiskcontext64.dll(TSafeDiskContext) sdcontext64.dll(TSafeDocContext) sdcontext64.dll(TSafeDocContext)

### 把注册表中的数值改为0



### 方法二:

### 弄个PE系统,进入winPE之后:

- 1. 打开系统盘->右键->分组依据->更多->勾选(公司)->确定
- 2. 右键->分组依据->公司
- 3. 查看->选项->查看->应用到文件夹
- 4. 在C盘中找到所有公司为T.E.C.Solutions(G.Z)Limited的文件,删除

## 技术免责声明

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By:AhRMo