Crypto

easy_rsa

感觉是很明显的共模攻击,但答案差太远,多个脚本答案一致,将变量和函数输出后发现egcd函数的最大公因数为3,才发现e1和e2不互质,将结果开立方根后还是不对,再立方发现与原结果不符,应该是精确问题,凑了一下将末尾644改为789(好像是这个数)得到正确flag。

Misc

Warmup

file指令查看文件类型为minidump,用mimikatz查看得到密码,转化为sha256提交flag。

```
imikatz # privilege::debug
'rivilege '20' OK
nimikatz # sekurlsa::minidump 1
Witch to MINIDUMP : '1
nimikatz # sekurlsa::logonPasswords full
Opening : 'l' file for minidump...
uthentication Id : 0 ; 2353730 (00000000:0023ea42)
Session : Interactive from 2
                        : Hgame
Jser Name
                        : xyf-PC
: XYF-PC
omain
.ogon Server
                        : 2019/2/11 22:02:44
: S-1-5-21-373264735-3061158248-1611926753-1003
ogon Time
ΙĎ
          msv :
[00000003] Primary
           * Username : Hgame
           * Domain : xyf-PC

* LM : 758ff83c96bcac17aad3b435b51404ee

* NTLM : e527b386483119c5218d9bb836109739
           * SHA1
                         : ca17a8c02628f662f88499e48d1b3e9398bef1ff
          tspkg :
           * Username : Hgame
* Domain : xyf-PC
* Password : LOSER
          wdigest:
           * Username : Hgame
           * Domain : xyf-PC
* Password : LOSER
          kerberos :
           * Username : Hgame
           * Domain : xyf-PC
           * Password : LOSER
          ssp :
          credman:
uthentication Id : 0 ; 2353708 (00000000:0023ea2c)
Session : Interactive from 2
Jession
Jser Name
                         : Hgame
                        : xyf-PC
: xYF-PC
: 2019/2/11 22:02:44
: S-1-5-21-373264735-3061158248-1611926753-1003
omain
ogon Server.
ogon Time.
SID
```

Clodown

```
Suggested Profile(s): Win8SP0x64, Win81U1x64, Win10x64_14393, W
8340, Win10x64, Win2016x64_14393, Win2012R2x64, Win2012x64, Win8SP1x64_183
10586, Win8SP1x64, Win10x64_15063 (Instantiated with Win10x64_15063)

AS Layer1: SkipDuplicatesAMD64PagedMemory (Kernel AS AS Layer2: WindowsCrashDumpSpace64 (Unnamed AS)

AS Layer3: FileAddressSpace (/root/memory)

PAE type: No PAE

DTB: 0x6a029000L

KDBG: 0xf80003ff50a0L

Number of Processors: 1

Image Type (Service Pack): 1

Employed Color CPU 0: 0xfffff80003ff6d00L

KUSER SHARED DATA: 0xfffff78000000000L

Image date and time: 2019-02-12 04:54:09 UTC+0000

Image local date and time: 2019-02-12 12:54:09 +0800
```

用file指令,显示为full dump,应该是完全内存转储,文件大小2g也比较符合。可以用kali 自带的volatility打开。

查了下资料,获取密码要打开注册表查看system和sam,但根据提供的profile打开都不正确,搞了很久后用windbg打开发现版本为Win7SP1x64(之前打开是SP0?)。

Symbol search path is: srv* Executable search path is:

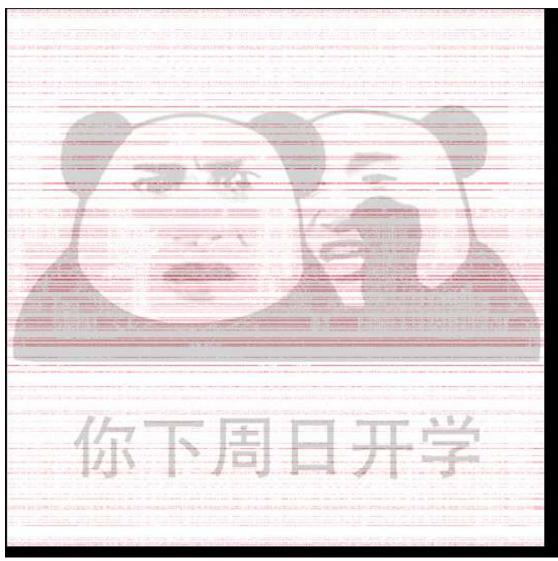
Windows 7 Kernel Version 7601 (Service Pack 1) UP Free x64 Product: WinNt, suite: TerminalServer SingleUserTS Built by: 7601.17592.amd64fre.win7sp1_gdr.110408-1631 Machine Name:

输入指令得到

```
'oot@kali:~# volatility -f memory --profile=Win7SP1x64 hivelist
Volatility Foundation Volatility Framework 2.6
Virtual
                   Physical
                                      Name
0xffffff8a003652010 0x00000000260a9010 \SystemRoot\System32\Config\SAM
0xfffff8a0062bd010 0x000000002143e010 \Device\HarddiskVolume1\Boot\BCD
0xfffff8a00000f010 0x000000002bfa9010 [no name]
0xffffff8a000024010 0x000000002bf34010 \REGISTRY\MACHINE\SYSTEM
0xffffff8a0000652d0 0x000000002c3772d0 \REGISTRY\MACHINE\HARDWARE
0xfffff8a0007e1010 0x0000000027e59010 \SystemRoot\System32\Config\SECURITY
0xfffff8a0007f8280 0x00000000279dd280 \SystemRoot\System32\Config\S0FTWARE
0xfffff8a001041350 0x000000001de7c350 \??\C:\Windows\ServiceProfiles\Netwo
SER.DAT
0xffffff8a001087010 0x000000001071a010 \??\C:\Windows\ServiceProfiles\Local
R.DAT
0xfffff8a0017dd010 0x00000000bd36010 \??\C:\System Volume Information\Sys
0xfffff8a002054010 0x000000006509d010 \??\C:\Users\xyf\ntuser.dat
0xfffff8a0020be010 0x0000000078b6010 \??\C:\Users\xyf\AppData\Local\Micro
UsrClass.dat
0xffffff8a00364f010 0x0000000025e26010 \SystemRoot\System32\Config\DEFAULT
```

NTLM,转化为sha256提交。

● 暗藏玄机



双图,有几种可能,先使用compare指令比较两幅图,得到新图。



盲水印, github上下载盲水印脚本解决。