# **HGAME 2021 Week4 Writeup**

## **MISC**

### Akira之瞳-1

内存题, 先用用 volatility 看下信息

```
volatility-master$ python vol.py imageinfo -f 1.raw
Volatility Foundation Volatility Framework 2.6.1
INFO : volatility.debug : Determining profile based on KDBG search...
Suggested Profile(s) : Win7SP1x64, Win7SP0x64, Win2008R2SP0x64, Win200
8R2SP1x64_24000, Win2008R2SP1x64_23418, Win2008R2SP1x64, Win7SP1x64_24000, Win7S
P1x64 23418
                          AS Layer1: WindowsAMD64PagedMemory (Kernel AS)
                          AS Layer2: FileAddressSpace (/home/pwn/桌面/CTFT00LS/volat
ility-master/1.raw)
                           PAE type : No PAE
                                 DTB: 0x187000L
                                KDBG: 0xf8000403b0a0L
            Number of Processors: 16
      Image Type (Service Pack): 1
                   KPCR for CPU 0 : 0xffffff8000403cd00L
                   KPCR for CPU 1: 0xffffff88004700000L
                   KPCR for CPU 2: 0xffffff88004776000L
                   KPCR for CPU 3: 0xffffff880047ec000L
                   KPCR for CPU 4: 0xfffff88004840000L
```

#### 确定是Win7SP1x64再从进程入手看看

ffset(V)	Name	PID	PPID	Thds	Hnds	Sess	Wow64 Start Exi
xfffffa800cd34040	System	4	0	158	487		0 2021-02-18 09:45:38 UTC+0000
xfffffa800d975b30		364	4	2			0 2021-02-18 09:45:38 UTC+0000
xfffffa800d88f9d0		456	420	Make 9	539	0	0 2021-02-18 09:45:41 UTC+0000
xfffffa800cd52060		500	420	4	95	0	0 2021-02-18 09:45:41 UTC+0000
xfffffa800e139b30		520	508	11	235	1	0 2021-02-18 09:45:41 UTC+0000
kfffffa800e182910	services.exe	568	500	14	283	0	0 2021-02-18 09:45:41 UTC+0000
xfffffa800e193910	lsass.exe	576	500	10	618	0	0 2021-02-18 09:45:41 UTC+0000
xfffffa800e198b30	lsm.exe	584	500	11	167	0	0 2021-02-18 09:45:42 UTC+0000
xfffffa800e3b0060	winlogon.exe	680	508		139	1	0 2021-02-18 09:45:42 UTC+0000
xfffffa800e3c4b30	svchost.exe	720	568	13	411	0	0 2021-02-18 09:45:42 UTC+0000
xfffffa800e3e8060	vm3dservice.ex	780	568	3	59	0	0 2021-02-18 09:45:42 UTC+0000
xfffffa800e3fb3e0	svchost.exe	820	568		315	0	0 2021-02-18 09:45:42 UTC+0000

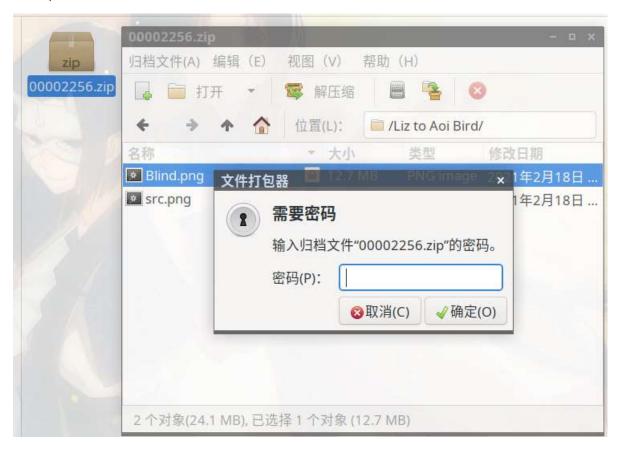
#### 感觉这个进程可能有关键信息

0xfffffa800f263b30 important work	1002	2232	1	16 1	1 2021-02-18 09:47:15 UTC+0000
UXIIIIIaouui203030 Important_work	1092	2232	1	10	1 2021-02-10 09:47:15 010+0000

#### 单独取出来看看



发现zip, 但需要密码



在Windows环境中查看得到提示为登录密码的sha256形式



再用volatility获取登录用户密码的NTLM,其中Genga03后半就是

```
volatility-master$ python vol.py -f 1.raw --profile=Win7SP1x64 hashdump
Volatility Foundation Volatility Framework 2.6.1
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c08
9c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Genga03:1001:aad3b435b51404eeaad3b435b51404ee:84b0d9c9f830238933e7131d60ac6436::
:
```

尝试网页解出,发现弱密码

转为sha256解压出两幅图片,看似一样看文件名,很明显是盲水印,用脚本解,起初一直失败死机,后来查了下发现Github上脚本原作者更新了python3版本且与python2不兼容,我用的是之前的python2版本,估计是这个原因,折腾一会用python3版本解出得到flag:

BlindWaterMark-master\$ python3 bwmforpy3.py decode src.png Blind.png flag.png image<src.png> + image(encoded)<Blind.png> -> watermark<flag.png>

