

HGAME 2023 Week3 writeup by 1dn

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Misc

1.ezWin - variables

2.ezWin - auth

3.ezWin - 7zip

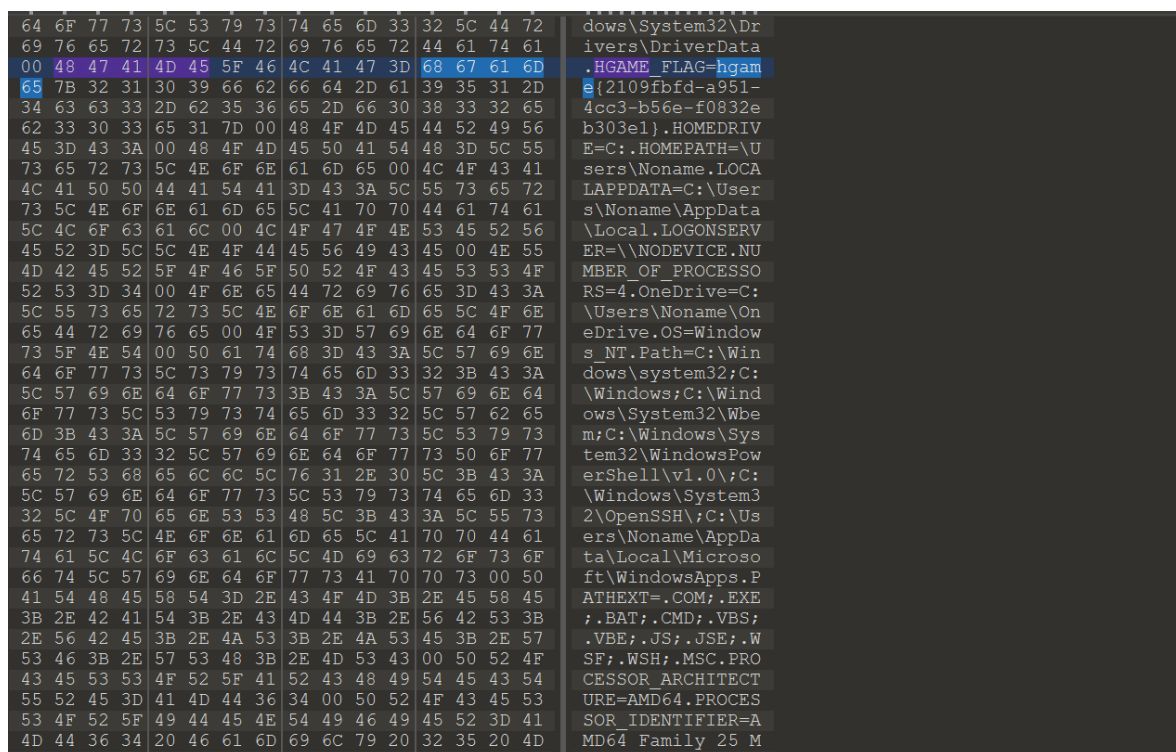
Crypto

1.LLLCG

Misc

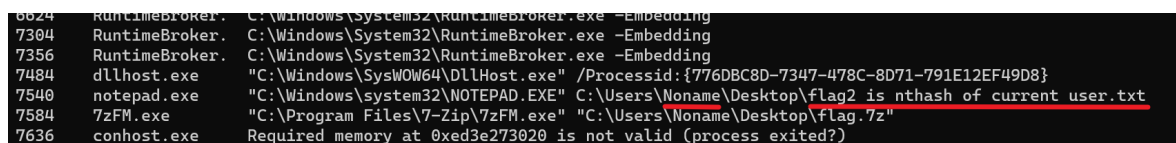
1.ezWin - variables

010里直接搜hgame



2.ezWin - auth

用volatility3的cmdline命令，发现flag相关信息



所以flag即为Noname的nt hash

再使用hashdump命令去查看账户信息，拿到nthash

User	rid	lmhash	nthash
Administrator	500	aad3b435b51404eeaad3b435b51404ee	31d6cfe0d16ae931b73c59d7e0c089c0
Guest	501	aad3b435b51404eeaad3b435b51404ee	31d6cfe0d16ae931b73c59d7e0c089c0
DefaultAccount	503	aad3b435b51404eeaad3b435b51404ee	31d6cfe0d16ae931b73c59d7e0c089c0
WDAGUtilityAccount	504	aad3b435b51404eeaad3b435b51404ee	c4b2cf9cac4752fc9b030b8ebc6faac3
Noname	1000	aad3b435b51404eeaad3b435b51404ee	84b0d9c9f830238933e7131d60ac6436

3.ezWin - 7zip

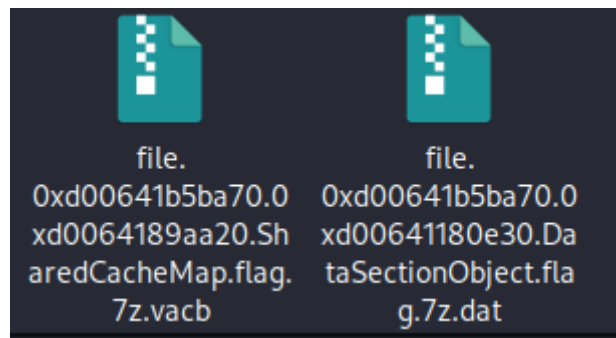
找一下跟flag相关的文件

```
(kali㉿kali)-[~/Desktop/volatility3]
$ python3 vol.py -f /home/kali/Desktop/win10_22h2_19045.2486.vmem filescan | grep flag
0xd0064181c950.0\Users\Noname\Desktop\flag.7z 216
0xd00641b5ba70 \Users\Noname\Desktop\flag.7z 216
```

提取文件内容

```
(kali㉿kali)-[~/Desktop/volatility3]
$ python3 vol.py -f /home/kali/Desktop/win10_22h2_19045.2486.vmem dumpfiles --virtaddr 0xd00641b5ba70
Volatility 3 Framework 2.4.1
Progress: 100.00 PDB scanning finished
Cache FileObject FileName Result
DataSectionObject 0xd00641b5ba70 flag.7z Error dumping file
SharedCacheMap 0xd00641b5ba70 flag.7z file.0xd00641b5ba70.0xd0064189aa20.SharedCacheMap.flag.7z.vacb
```

得到两个文件



将第一个文件后面的.vacb（或者第二个文件后面的.dat）删了，是个7z压缩包，压缩包密码是上一题nt hash解密的结果，flag就在txt文件里

.. (上级目录)		文件夹	
crack_nt_hash_for_7z_pwd.txt *	1 KB	1 KB 文本文档	2023-01-31 10:58

Magic Data 5

ntlm

84b0d9c9f830238933e7131d60ac6436



解密结果

asdqwe123

Crypto

1.LLLCG

output.txt的40个数里任意相邻两数中的较大数整除较小数的值即为a

```
10896510524738352828273081283110658285613966633649112409729597889095153066168639
80465990986336276384903707375227394223034256042622812751981085694555292380388664
57344842006422913342167824060644151888704413267011559130185793503076927127159936
75813772474243280626352888321213313718894912395388422448776832449873890579411993
73965//1137660125635315218550396257283379271126281654707140024628565116239043227
65475686215208070455391529559783391819489796124435828454332545219611997652804401
9410771533996460493628849739976409844578782648330528014140288383
95780016185882428081793257086075335606985565473293657602345594239150999317438817
8077475127255899127515803005
```

然后转回字符串

```
b'hgame{W0w_you_know_the_hidden_number_problem}'
```