内存取证_CTF

原创

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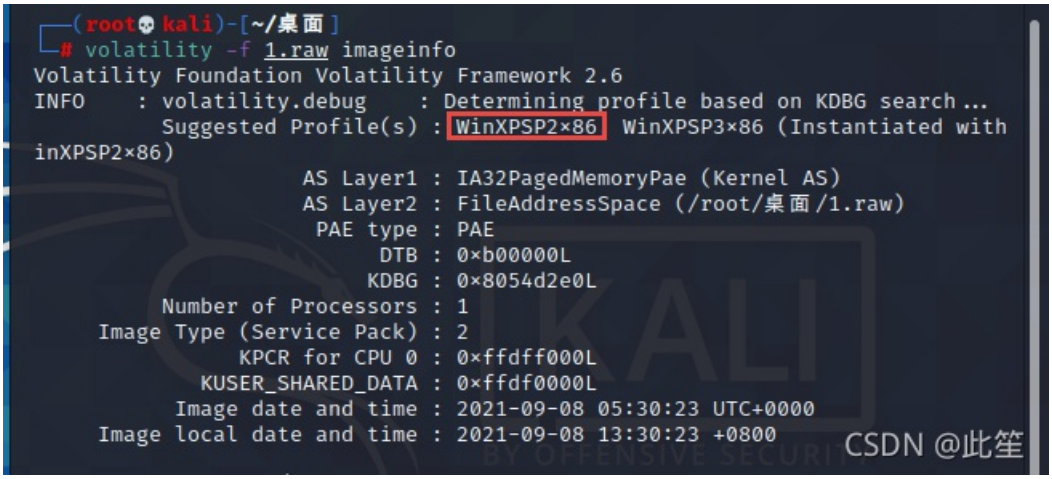
1 篇文章 0 订阅

订阅专栏

内存取证

1.获取内存镜像信息，获取系统版本

```
volatility -f 1.raw imageinfo
```



2. 查看进程信息

```
volatility -f 1.raw --profile=WinXPSP2x86 pslist
```

```
┌──(root💀kali)-[~/桌面]
└─# volatility -f 1.raw --profile=WinXPSP2x86 pslist
Volatility Foundation Volatility Framework 2.6
Offset(V)  Name                    PID   PPID   Thds     Hnds   Sess  Wow64
Start                          Exit
---------- -------------------- ------ ------ ------ -------- ------ ------
0x821b7830 System                    4      0     53      248 ------      0

0x81fe6cc0 smss.exe                512      4      3       21 ------      0
2021-09-08 05:15:53 UTC+0000
0x81d32558 csrss.exe               580    512     11      370      0      0
2021-09-08 05:15:53 UTC+0000
0x81fdc998 winlogon.exe            604    512     15      421      0      0
2021-09-08 05:15:54 UTC+0000
0x81f93400 services.exe            704    604     16      279      0      0
2021-09-08 05:15:54 UTC+0000
0x820aca60 lsass.exe               716    604     20      348      0      0
2021-09-08 05:15:54 UTC+0000
0x820b5b60 vmacthlp.exe            868    704      1       24      0      0
2021-09-08 05:15:54 UTC+0000
0x81e311a0 svchost.exe             884    704     16      190      0      0
2021-09-08 05:15:54 UTC+0000
0x820c6b88 svchost.exe             940    704     11      255      0      0
2021-09-08 05:15:55 UTC+0000
0x82086b28 svchost.exe            1084    704     58     1129      0      0
2021-09-08 05:15:55 UTC+0000
```


留意可疑进程例如：cmd.exe（控制台） notepad.exe（记事本） StikyNot.exe(便笺) wab.exe （Windows联系人）

3.查看cmd.exe的使用情况

```
volatility -f 1.raw --profile=WinXPSP2x86 cmdscan
```

```
┌──(root💀kali)-[~/桌面]
└─# volatility -f 1.raw --profile=WinXPSP2x86 cmdscan
Volatility Foundation Volatility Framework 2.6
**************************************************
CommandProcess: csrss.exe Pid: 580
CommandHistory: 0x565c60 Application: DumpIt.exe Flags: Allocated
CommandCount: 0 LastAdded: -1 LastDisplayed: -1
FirstCommand: 0 CommandCountMax: 50
ProcessHandle: 0x524
**************************************************
CommandProcess: csrss.exe Pid: 580
CommandHistory: 0x566bb8 Application: cmd.exe Flags: Allocated, Reset
CommandCount: 5 LastAdded: 4 LastDisplayed: 4
FirstCommand: 0 CommandCountMax: 50
ProcessHandle: 0x4cc
Cmd #0 @ 0x3689ed8: git push -u origin master
Cmd #1 @ 0x566148: ok....
Cmd #2 @ 0x56aa08: then delete .git and flagfile
Cmd #3 @ 0x368a798: You can never find my account
Cmd #4 @ 0x56a580: hahaha!
```


4.查看notepad.exe中的内容

```
volatility notepad -f 1.raw pslist --profile=WinXPSP2x86
```

5.提取可疑进程

```
volatility -f 1.raw --profile=Win7SP0x86 memdump -p 252 -D ./
```

1. --profile 的参数为系统版本
2. -p 的参数为进程ID
3. -D 的参数为保存文件路径

进程里面可能会隐藏flag等关键信息，可以使用以下命令检索.dmp文件

```
strings -e l 252.dmp | grep flag
```

6.扫描内存中的关键文件

```
volatility -f 1.raw --profile=WinXPSP2x86 filescan | grep 'P@ssW0rd_is_y0ur_bir7hd4y.zip'
```

7.导出文件

```
volatility -f 1.raw --profile=WinXPSP2x86 dumpfiles -Q 0x0000000002c61318 -D ./
```

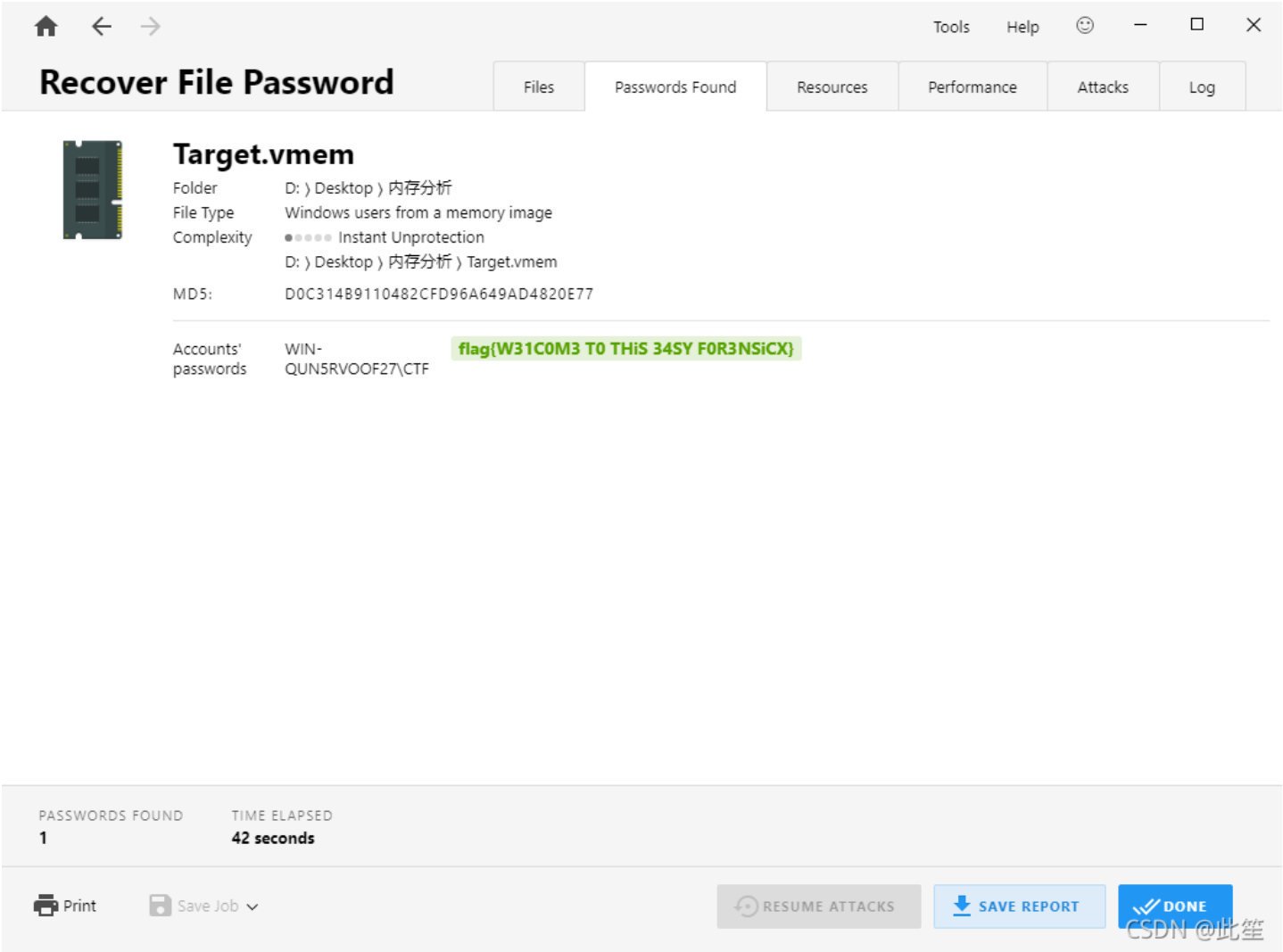
```
1. -Q的参数为内存地址
3. -D的参数为保存文件路径
```

8.列举用户及密码

```
volatility -f 1.raw --profile=WinXPSP2x86 hashdump
```

```
┌──(root💀kali)-[~/桌面]
└─# volatility -f 1.vmem --profile=Win7SP1x64 hashdump                    1 ⚙
Volatility Foundation Volatility Framework 2.6
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c
089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
CTF:1000:aad3b435b51404eeaad3b435b51404ee:be5593366cb1019400210101581e5d0d:::
```

或者使用passware kit forensic工具，一把梭



总结

近期通过CTF比赛对内存取证的一些认识