

ctf 内存取证的一些命令

原创

舞动的獾 于 2019-11-12 15:50:40 发布 5024 收藏 34

分类专栏: [ctf](#) 文章标签: [ctf内存取证相关命令](#)

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: https://blog.csdn.net/Yu_csdnstory/article/details/103030570

版权



[ctf 专栏收录该内容](#)

3 篇文章 0 订阅

订阅专栏

内存取证

相当于给出镜像文件, 一般为.raw文件, 在这些文件中找出相应的文件

常用命令

在kali下用工具volatility, 以湖湘杯的文件men.raw为例

查看系统信息

```
volatility -f mem.raw imageinfo
```

```
root@kali:~/Desktop# volatility -f mem.raw imageinfo
Volatility Foundation Volatility Framework 2.6
INFO      : volatility.debug      : Determining profile based on KDBG search...
           Suggested Profile(s) : Win7SP1x64, Win7SP0x64, Win2008R2SP0x64, Win200
8R2SP1x64_23418, Win2008R2SP1x64, Win7SP1x64_23418
           AS Layer1           : WindowsAMD64PagedMemory (Kernel AS)
           AS Layer2           : FileAddressSpace (/root/Desktop/mem.raw)
           PAE type            : No PAE
           DTB                  : 0x187000L
           KDBG                 : 0xf800040490a0L
           Number of Processors : 1
           Image Type (Service Pack) : 1
                                           https://blog.csdn.net/Yu_csdnstory
```

如下显示的系统都有可能, 可以一个个的试试

查看运行程序列表

```
volatility -f mem.raw --profile=Win7SP1x64 pslist
```

```
root@kali:~/Desktop# volatility -f mem.raw --profile=Win7SP1x64 pslist
Volatility Foundation Volatility Framework 2.6
Offset(V)      Name                PID  PPID  Thds  Hnds  Sess  Wo
w64 Start                Exit
-----
0xfffffa8006c84b30 System                4    0    89   476  -----
  0 2018-08-02 10:15:41 UTC+0000
0xfffffa8008643040 smss.exe             268   4     4    29  -----
  0 2018-08-02 10:15:41 UTC+0000
0xfffffa8008e44970 csrss.exe             356  344   8    574  0
  0 2018-08-02 10:15:43 UTC+0000
0xfffffa8008f1b060 wininit.exe           408  344   7    89  0
  0 2018-08-02 10:15:43 UTC+0000
0xfffffa8008f1c4b0 csrss.exe             416  400   9    245  1
```

```
0 2018-08-02 10:15:43 UTC+0000
0xfffffa80091cc570 winlogon.exe
0 2018-08-02 10:15:44 UTC+0000
0xfffffa80091eb350 services.exe
0 2018-08-02 10:15:44 UTC+0000
```

查看文件

```
volatility -f mem.raw --profile=Win7SP1x64 filescan
```

```
root@kali:~/Desktop# volatility -f mem.raw --profile=Win7SP1x64 filescan
Volatility Foundation Volatility Framework 2.6
Offset(P) #Ptr #Hnd Access Name
-----
0x000000000021ef20 16 0 R--r-d \Device\HarddiskVolume1\Windows\System32\wmdrmdev.dll
0x00000000003f72e0 2 0 RW-rwd \Device\HarddiskVolume1\Directory
0x00000000003f7480 1 1 R--r-- \Device\HarddiskVolume1\Windows\Registration\R0000000000006.clb
0x0000000000639300 8 0 R--r-d \Device\HarddiskVolume1\Windows\System32\FXSST.dll
0x00000000006397d0 12 0 R--r-d \Device\HarddiskVolume1\Windows\System32\FXSRESM.dll
```

一般文件会很多，不易查看，用grep命令过滤

```
volatility -f mem.raw --profile=Win7SP1x64 filescan |grep txt
```

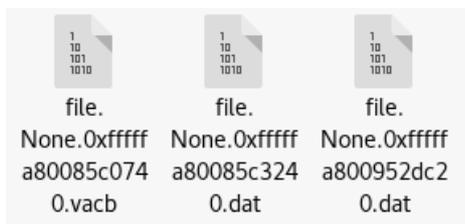
```
root@kali:~/Desktop# volatility -f mem.raw --profile=Win7SP1x64 filescan |grep txt
Volatility Foundation Volatility Framework 2.6
0x00000000006ecfa20 1 1 -W-rw- \Device\HarddiskVolume1\Users\Admin\AppData\Local\Temp\FXSAPIDebugLogFile.txt
0x0000000001e7c3420 20 2 -W-rw- \Device\HarddiskVolume1\ProgramData\VMware\VMware VGAuth\logfile.txt.0
```

这里显示出了txt文件，下面将他们分离出来

提取文件

```
volatility -f mem.raw --profile=Win7SP1x64 dumpfiles -Q 0x00000001e7c3420 -D aaa
```

-Q是偏移量，-D是存储的文件夹



查看cmd下执行的文件

```
volatility -f mem.raw --profile=Win7SP1x64 cmdscan
```

```
FirstCommand: 0 CommandCountMax: 50
ProcessHandle: 0x5c...
Cmd #0 @ 0x18c740: cd Desktop
Cmd #1 @ 0x18c070: dir
Cmd #2 @ 0x172bf0: notepad "flag{wiND0w5_M3m0RY_F0R3n5IC5}.txt"
Cmd #15 @ 0x120158:
Cmd #16 @ 0x196280:
Cmd #37 @ 0x120158:
Cmd #38 @ 0x196180:
```

```
CommandProcess: conhost.exe Pid: 2712
CommandHistory: 0x15dda0 Application: DumpIt.exe Flags: Allocated
CommandCount: 0 LastAdded: -1 LastDisplayed: -1
```

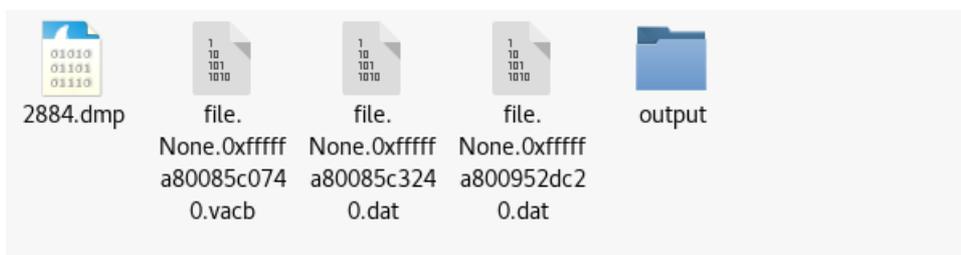
可以看到，flag已经被找到，不过出题人并没有将flag放在一个文件里，只是个文件名，若是放在某个文件里，会加大我们的难度

分离出cmd下执行的某个文件

```
volatility -f mem.raw --profile=Win7SP1x64 memdump -p 2884 -D aaa
```

-p是进程号，flag的文件在进程号为2884，分离出的文件为流量包

```
root@kali:~/Desktop# volatility -f mem.raw --profile=Win7SP1x64 memdump -p 2884 -D aaa
Volatility Foundation Volatility Framework 2.6
*****
Writing conhost.exe [ 2884] to 2884.dmp
```



好像用wireshark打不开，可以直接foremost一波，得到文件

提取账户密码

```
volatility -f mem.raw --profile=Win7SP0x64 hashpump
```

查看网络连接

```
volatility -f mem.raw --profile=Win7SP1x64 netscan
```

```
root@kali:~/Desktop# volatility -f mem.raw --profile=Win7SP1x64 netscan
Volatility Foundation Volatility Framework 2.6
Offset(P) Proto Local Address Foreign Address
State Pid Owner Created
0x6d4ec0 UDPv4 127.0.0.1:1900 *:*
2504 svchost.exe 2018-08-02 10:15:53 UTC+0000
0x6d5aa0 UDPv6 ::1:64060 *:*
2504 svchost.exe 2018-08-02 10:15:53 UTC+0000
0xe84870 UDPv6 fe80::804c:7f37:58d1:e768:546 *:*
776 svchost.exe 2018-08-02 10:15:56 UTC+0000
0x6524cb0 UDPv6 fe80::804c:7f37:58d1:e768:64059 *:*
2504 svchost.exe 2018-08-02 10:15:53 UTC+0000
0xca72ec0 UDPv4 127.0.0.1:64062 https://blog.csdn.net/Yu_csdnstory
2504 svchost.exe 2018-08-02 10:15:53 UTC+0000
```

查看已经建立的网络连接

```
volatility -f mem.raw --profile=Win7SP1x64 netscan|grep ESTABLISHED
```