LAB 09

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22i-1725

CY-D

First of all, finding the memdump profile using plugin imageinfo

```
(kali®kali)-[/media/sf_shared_folder/volatility-master]
└$ python2 vol.py -f /media/sf_shared_folder/memdump_challenge/memdump_challenge.mem imageinfo Volatility Foundation Volatility Framework 2.6.1
*** Failed to import volatility.plugins.registry.shutdown (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.getservicesids (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.timeliner (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.malware.apihooks (NameError: name 'distorm3' is not defined)
*** Failed to import volatility.plugins.malware.servicediff (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.registry.userassist (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.getsids (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.registry.shellbags (ImportError: No module named Crypto.Hash)

*** Failed to import volatility.plugins.registry.shellbags (ImportError: No module named Crypto.Hash)

*** Failed to import volatility.plugins.tcaudit (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.registry.dumpregistry (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.registry.lsadump (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.malware.threads (NameError: name 'distorm3' is not defined)
*** Failed to import volatility.plugins.mac.apihooks_kernel (ImportError: No module named distorm3)
*** Failed to import volatility.plugins.mac.apinowar.apinopinction: No module named distorms)

*** Failed to import volatility.plugins.registry.amcache (ImportError: No module named Crypto.Hash)

*** Failed to import volatility.plugins.mac.check_syscall_shadow (ImportError: No module named distorm3)
*** Failed to import volatility.plugins.malware.svcscan (ImportError: No module named Crypto.Hash)
*** Failed to import volatility.plugins.registry.auditpol (ImportError: No module named Crypto.Hash)

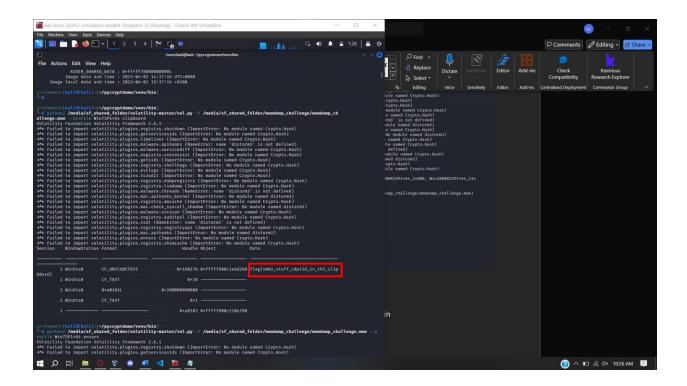
*** Failed to import volatility.plugins.registry.auditpol (ImportError: No module named Crypto.Hash)

*** Failed to import volatility.plugins.registry.registryapi (ImportError: No module named Crypto.Hash)

*** Failed to import volatility.plugins.mac.apihooks (ImportError: No module named distorm3)
PAE type
                                                   : No PAE
                                                   : 0×187000L
                                                   : 0×f800028410a0L
                                           KDBG
                Number of Processors
        Image Type (Service Pack)
                          KPCR for CPU 0 : 0×fffff80002842d00L
KPCR for CPU 1 : 0×fffff880009eb000L
                          KPCR for CPU 2
KPCR for CPU 3
                                                   : 0×fffff88002ea9000L
                                                   : 0×ffffff88002f1f000l
                     KUSER_SHARED_DATA : 0×ffffff78000000000L
        Image date and time : 2023-04-02 14:37:16 UTC+0000
Image local date and time : 2023-04-02 19:37:16 +0500
     (kali®kali)-[/media/sf_shared_folder/volatility-master]
```

Q1)

To find the clipboard info, we use the clipboard plugin



Flag: flag{s0m3_stuff_c0p13d_1n_th3_cl1pb0ard}

Q2)

To find it in the internet explorer search history we use the iehistory plugin

Flag: flag{1nt3rn3t_3xpl0r3r_h1st0ry_1n_m3m0ry_dump}

Q3)

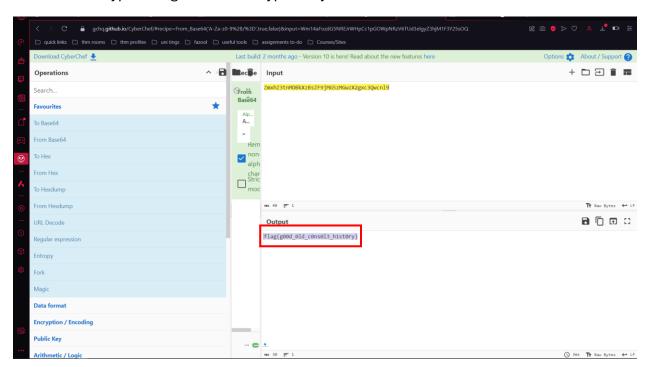
This involves using the envars plugin which required pycryptodome

Flag:

Q4)

This involves the plugin cmdscan

This is an encrypted flag that we decrypt on cyberchef



Flag: flag{g00d_0ld_c0ns0l3_h1st0ry}

Q5)

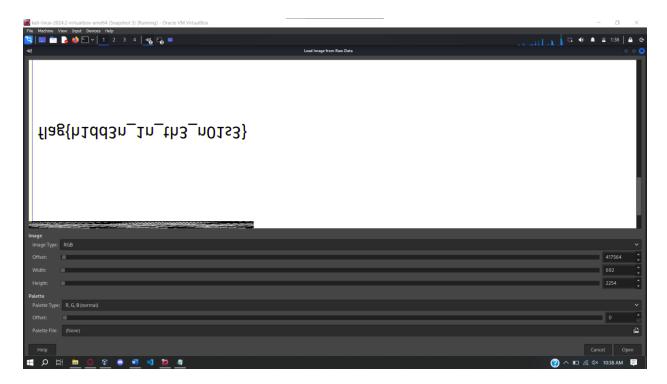
First of all, finding the PID for mspaint

It is 2768. Now, exporting it's data

Changing the format

```
(kali⊕ kali)-[~/Desktop]
$ mv 2768.dmp 2768.data
```

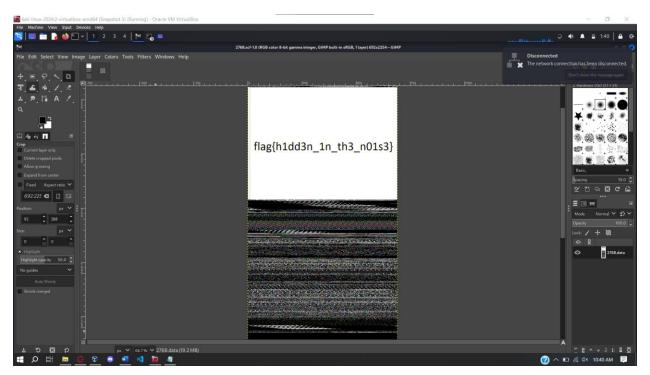
Now opening it in GIMP, we get this



We opened the .data and then changed width till the font is visible, it was unintelligible first.

Then we moved the offset slider till the flag was completely visible.

Inverted the image to get this



The image is inverted from layer->transform->flip vertically

Flag: flag{h1dd3n_1n_th3_n01s3}