

Task 1:

1. Command used : `volatility_2.6_win64_standalone.exe -f memory-dump.img imageinfo`
OS Version: Windows 2003
The 2 most-likely version profiles: Win2003SP0x86, Win2003SP1x86

```
PS C:\Users\User\Downloads\forensics> .\volatility_2.6_win64_standalone\volatility_2.6_win64_standalone.exe -f .\assignment1\memory-dump\memory-dump.img imageinfo
Volatility Foundation Volatility Framework 2.6
INFO : volatility.debug : Determining profile based on KDBG search...
Suggested Profile(s) : Win2003SP0x86, Win2003SP1x86, Win2003SP2x86 (Instantiated with Win2003SP0x86)
AS Layer1 : IA32PagedMemory (kernel AS)
AS Layer2 : FileAddressSpace (C:\Users\User\Downloads\forensics\assignment1\memory-dump\memory-dump
.img)

PAE type : No PAE
DTB : 0x39000L
KDBG : 0x805693d0L
Number of Processors : 2
Image Type (Service Pack) : 0
KPCR for CPU 0 : 0xfffff000L
KPCR for CPU 1 : 0xffff72f000L
KUSER_SHARED_DATA : 0xffffd000L
Image date and time : 2006-03-18 05:47:41 UTC+0000
Image local date and time : 2006-03-17 21:47:41 -0800
```

2. Using the same commands as above,
Address Space Type: IA-32 paging address space
Processor Type: Intel Architecture
32 bits

3. Command used : `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 pslist`

Offset(V)	Name	PID	PPID	Thds	Hnds	Sess	Wow64	Start	Exit
0x8619d818	System	4	0	64	209	----	0		
0x85fa6d88	smss.exe	356	4	3	17	-----	0	2006-03-18 05:39:03 UTC+0000	
0x85f758d8	csrss.exe	412	356	10	338	0	0	2006-03-18 05:39:05 UTC+0000	
0x85f665f0	winlogon.exe	436	356	20	463	0	0	2006-03-18 05:39:06 UTC+0000	
0x85f47840	services.exe	480	436	17	281	0	0	2006-03-18 05:39:08 UTC+0000	
0x85f68b08	lsass.exe	492	436	26	363	0	0	2006-03-18 05:39:08 UTC+0000	
0x85f27540	svchost.exe	620	480	11	195	0	0	2006-03-18 05:39:10 UTC+0000	
0x85f07c90	svchost.exe	708	480	16	130	0	0	2006-03-18 05:39:11 UTC+0000	
0x85ee8408	svchost.exe	852	480	7	105	0	0	2006-03-18 05:39:14 UTC+0000	
0x85ee0bf0	svchost.exe	912	480	5	78	0	0	2006-03-18 05:39:15 UTC+0000	
0x85ee2d88	svchost.exe	924	480	47	1049	0	0	2006-03-18 05:39:15 UTC+0000	
0x85ec2b98	spoolsv.exe	1048	480	11	114	0	0	2006-03-18 05:39:16 UTC+0000	
0x85ed3d88	msdtc.exe	1080	480	21	159	0	0	2006-03-18 05:39:16 UTC+0000	
0x85eb4d88	svchost.exe	1196	480	2	54	0	0	2006-03-18 05:39:17 UTC+0000	
0x85eb16c0	svchost.exe	1228	480	2	35	0	0	2006-03-18 05:39:17 UTC+0000	
0x85c18d88	dfssvc.exe	1348	480	9	74	0	0	2006-03-18 05:39:18 UTC+0000	
0x85b93608	wmiprvse.exe	1752	620	6	112	0	0	2006-03-18 05:40:57 UTC+0000	
0x85b91d88	wmiprvse.exe	1788	620	6	170	0	0	2006-03-18 05:40:58 UTC+0000	
0x85ef65f8	explorer.exe	396	480	11	257	0	0	2006-03-18 05:43:31 UTC+0000	
0x85b4ad88	msiexec.exe	1480	480	5	72	0	0	2006-03-18 05:43:39 UTC+0000	
0x85b7f020	notepad.exe	1568	396	1	15	0	0	2006-03-18 05:44:46 UTC+0000	
0x85b32020	wpabaln.exe	1548	436	1	25	0	0	2006-03-18 05:45:31 UTC+0000	

4. Command used : `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 pstree`

Text-Editor application executable name: notepad.exe
PID: 1568

```
PS C:\Users\User\Downloads\forensics> .\volatility_2.6_win64_standalone\volatility_2.6_win64_standalone.exe -f .\assignment1\memory-dump\memory-dump.img --profile=Win2003SP0x86 pstree
Volatility Foundation Volatility Framework 2.6
Name PID PPID Thds Hnds Time
-----
0x8619d818: System 4 0 64 209 1970-01-01 00:00:00 UTC+0000
... 0x85fa6d88: smss.exe 356 4 3 17 2006-03-18 05:39:03 UTC+0000
... 0x85f758d8: csrss.exe 412 356 10 338 2006-03-18 05:39:05 UTC+0000
... 0x85f665f0: winlogon.exe 436 356 20 463 2006-03-18 05:39:06 UTC+0000
... 0x85f47840: services.exe 480 436 17 281 2006-03-18 05:39:08 UTC+0000
... 0x85f68b08: lsass.exe 492 436 26 363 2006-03-18 05:39:08 UTC+0000
... 0x85f27540: svchost.exe 620 480 11 195 2006-03-18 05:39:10 UTC+0000
... 0x85f07c90: svchost.exe 708 480 16 130 2006-03-18 05:39:11 UTC+0000
... 0x85ee8408: svchost.exe 852 480 7 105 2006-03-18 05:39:14 UTC+0000
... 0x85ee0bf0: svchost.exe 912 480 5 78 2006-03-18 05:39:15 UTC+0000
... 0x85ee2d88: svchost.exe 924 480 47 1049 2006-03-18 05:39:15 UTC+0000
... 0x85ec2b98: spoolsv.exe 1048 480 11 114 2006-03-18 05:39:16 UTC+0000
... 0x85ed3d88: msdtc.exe 1080 480 21 159 2006-03-18 05:39:16 UTC+0000
... 0x85eb4d88: svchost.exe 1196 480 2 54 2006-03-18 05:39:17 UTC+0000
... 0x85eb16c0: svchost.exe 1228 480 2 35 2006-03-18 05:39:17 UTC+0000
... 0x85c18d88: dfssvc.exe 1348 480 9 74 2006-03-18 05:39:18 UTC+0000
... 0x85b93608: wmiprvse.exe 1752 620 6 112 2006-03-18 05:40:57 UTC+0000
... 0x85b91d88: wmiprvse.exe 1788 620 6 170 2006-03-18 05:40:58 UTC+0000
... 0x85ef65f8: explorer.exe 396 480 11 257 2006-03-18 05:43:31 UTC+0000
... 0x85b4ad88: msiexec.exe 1480 480 5 72 2006-03-18 05:43:39 UTC+0000
... 0x85b7f020: notepad.exe 1568 396 1 15 2006-03-18 05:44:46 UTC+0000
```

5. Using the same command, looking for the PPID

Command used : `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 pstree`

0x85ef65f8:explorer.exe	396	380	11	257	2006-03-18 05:43:31	UTC+0000
0x85b7f020:notepad.exe	1568	396	1	15	2006-03-18 05:44:46	UTC+0000

PID: 396

Name of executable: explorer.exe

Time: 2006-03-18 05:43:31 UTC+0000

6. Command used : `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 dlllist --pid=1568`

Base	Size	LoadCount	Path
0x01000000	0x14000	0xffff	C:\WINDOWS\system32\notepad.exe
0x77f40000	0xba000	0xffff	C:\WINDOWS\system32\ntdll.dll
0x77e40000	0xf4000	0xffff	C:\WINDOWS\system32\kernel32.dll
0x762b0000	0x47000	0xffff	C:\WINDOWS\system32\comdlg32.dll
0x77290000	0x49000	0xffff	C:\WINDOWS\system32\SHLWAPI.dll
0x77c00000	0x44000	0xffff	C:\WINDOWS\system32\GDI32.dll
0x77d00000	0x8f000	0xffff	C:\WINDOWS\system32\USER32.dll
0x77da0000	0x90000	0xffff	C:\WINDOWS\system32\ADVAPI32.dll
0x77c50000	0xa4000	0xffff	C:\WINDOWS\system32\RPCRT4.dll
0x77ba0000	0x54000	0xffff	C:\WINDOWS\system32\msvcrt.dll
0x70ad0000	0xe6000	0xffff	C:\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-Controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450B\COMCTL32.dll
0x77380000	0x7dd000	0xffff	C:\WINDOWS\system32\SHELL32.dll
0x73070000	0x26000	0xffff	C:\WINDOWS\system32\WINSPOOL.DRV
0x71b70000	0x33000	0x1	C:\WINDOWS\system32\UxTheme.dll

7. Command Used: `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 --pid=1568 envvars`

Username: Administrator

Windows domain: BATTLESTAR

1568 notepad.exe	0x00010000	PROCESSOR_LEVEL	15
1568 notepad.exe	0x00010000	PROCESSOR_REVISION	0289
1568 notepad.exe	0x00010000	ProgramFiles	C:\Program Files
1568 notepad.exe	0x00010000	SESSIONNAME	Console
1568 notepad.exe	0x00010000	SystemDrive	C:
1568 notepad.exe	0x00010000	SystemRoot	C:\WINDOWS
1568 notepad.exe	0x00010000	TEMP	C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp
1568 notepad.exe	0x00010000	TMP	C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp
1568 notepad.exe	0x00010000	USERDOMAIN	BATTLESTAR
1568 notepad.exe	0x00010000	USERNAME	Administrator
1568 notepad.exe	0x00010000	USERPROFILE	C:\Documents and Settings\Administrator
1568 notepad.exe	0x00010000	windir	C:\WINDOWS

8. Command Used: `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 --pid=1568 handles`

Files:

\Device\HarddiskVolume1\Documents and Settings\Administrator

\Device\HarddiskVolume1\WINDOWS\WinSxS\x86_Microsoft.Windows.Common-Controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450B

volatility_2.6_win64_standalone.exe: error: no such option: --pid				
PS C:\Users\User\Downloads\Forensics> .\volatility_2.6_win64_standalone.exe -f .\Assignme				
ent\memory-dump\memory-dump.img --profile=Win2003SP0x86 --pid=1568 handles				
Volatility Foundation Volatility Framework 2.6				
Offset(V)	PID	Handle	Access Type	Details
0xc1801900	1568	0x0	0x3 KeyedEvent	CritSecOutOfMemoryEvent
0xc357a180	1568	0x0	0x1f0003 Event	
0xe12399e8	1568	0xc	0x3 Directory	KnownDlls
0x85b62208	1568	0x10	0x100020 File	\Device\HarddiskVolume1\Documents and Settings\Administrator
0x85b7c0a8	1568	0x10	0x100020 File	\Device\HarddiskVolume1\WINDOWS\WinSxS\x86_Microsoft.Windows.Co
mon-Controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450B				
0xe1662e00	1568	0x18	0x1f0001 Port	
0x85b6cc00	1568	0x1c	0x21f0003 Event	
0x85f6e7b8	1568	0x20	0xf037f WindowStation	WinSta0
0x85f69800	1568	0x24	0xf01ff Desktop	Default
0x85f6e7b8	1568	0x28	0xf037f WindowStation	WinSta0
0xe175b288	1568	0x2c	0x20f003f Key	MACHINE
0x85b478e8	1568	0x30	0x1f0003 Event	
0x85b3d220	1568	0x34	0x100020 File	\Device\HarddiskVolume1\WINDOWS\WinSxS\x86_Microsoft.Windows.Co
mon-Controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450B				
0xe14ebd08	1568	0x38	0x20f003f Key	USER\S-1-5-21-1264845860-2747189687-3268685544-500
0x85ef3158	1568	0x0	0x100020 File	\Device\HarddiskVolume1\WINDOWS\WinSxS\x86_Microsoft.Windows.Co
mon-Controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450B				

9. Command Used: `volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 psscan`

Executable Name	PID	Exit Time
dllhost.exe	1156	2006-03-18 05:38:32 UTC+0000

spoolsv.exe	1644	2006-03-18 05:38:31 UTC+0000
setup.exe	336	2006-03-18 05:38:31 UTC+0000

10. Command Used: *volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 sockscan*

UDP port number: 17

PID: 924

```
PS C:\Users\User\Downloads\forensics> .\volatility_2.6_win64_standalone\volatility_2.6_win64_standalone.exe -f .\assignment1\memory-dump\memory-dump.img --profile=Win2003SP0x86 sockscan
Volatility Foundation Volatility Framework 2.6
Offset(P)      PID      Port  Proto Protocol      Address      Create Time
-----
0x06014ea8     924     123   17    UDP          127.0.0.1    -
0x06032ea8      4    1026    6    TCP           0.0.0.0    -
0x06226a28     304    1025    6    TCP           0.0.0.0    -
0x062aa778     492    4500   17    UDP           0.0.0.0    -
0x062cf700     924    1026    6    TCP           0.0.0.0    -
0x063b7008      4     445   17    UDP           0.0.0.0    -
```

Command Used to find executable name: *volatility_2.6_win64_standalone.exe -f memory-dump.img --profile=Win2003SP0x86 --pid=924 pslist*

Executable Name: svchost.exe

Task 2:

1. Command Used to display layout of disk: *mmls disk-dump.E01*
Sector 0-0 Primary Table
Sector 0-31 Unallocated
Sector 32-3914751 Win95 FAT32

```
timmybeef@timmybeef-IdeaPad-U330p:~/Desktop/ifs4102/Assignments/Assignment-1$ mmls disk-dump.E01
DOS Partition Table
Offset Sector: 0
Units are in 512-byte sectors

   Slot   Start      End          Length    Description
000:  Meta   0000000000    0000000000    0000000001    Primary Table (#0)
001:  ----- 0000000000    0000000031    0000000032    Unallocated
002:  000:000 0000000032    0003914751    0003914720    Win95 FAT32 (0x0c)
```

2. Using the information in mmls above to find the file system
Command Used to find file system type of accessible partition: *mmls disk-dump.E01*
File-System Type: FAT32
3. Use *img_stat disk-dump.E01* to find out the image type: ewf
Command used to find Volume ID and Label: *fsstat -i ewf -o 32 disk-dump.E01*
Volume ID: 0x6ed6ab58
Volume Label: Practice

```
timmybeef@timmybeef-IdeaPad-U330p:~/Desktop/ifs4102/Assignments/Assignment-1$ fsstat -i ewf -o 32 disk-dump.E01
FILE SYSTEM INFORMATION
-----
File System Type: FAT32

OEM Name: MSDOS5.0
Volume ID: 0x6ed6ab58
Volume Label (Boot Sector): NO NAME
Volume Label (Root Directory): PRACTICE
File System Type Label: FAT32
Next Free Sector (FS Info): 84622
Free Sector Count (FS Info): 3830098
```

4. Command used to find Volume ID and Label: *fsstat -i ewf -o 32 disk-dump.E01*
Sector Size: 512 bytes
Cluster Size: 1024 bytes

```
CONTENT INFORMATION
-----
Sector Size: 512
Cluster Size: 1024
Total Cluster Range: 2 - 1940977
```

5. Command used to find Volume ID and Label: *fsstat -i ewf -o 32 disk-dump.E01*
Number of sectors in data area: $3914719 - 32768 + 1 = 3881952$

```
File System Layout (in sectors)
Total Range: 0 - 3914719
* Reserved: 0 - 2439
** Boot Sector: 0
** FS Info Sector: 1
** Backup Boot Sector: 6
* FAT 0: 2440 - 17603
* FAT 1: 17604 - 32767
* Data Area: 32768 - 3914719
** Cluster Area: 32768 - 3914719
*** Root Directory: 32768 - 32769
```

6. Command used to find user-created directories: *fls -i ewf -f fat32 -o 32 disk-dump.E01*
Name of user created directories: Personal, Work, Practice

```
(test@kali)~[~/Desktop]
$ fls -i ewf -f fat32 -o 32 disk-dump.E01
d/d 10: Home
r/r 3: PRACTICE (Volume Label Entry)
d/d 6: System Volume Information
d/d 8: Personal
d/d 12: Work
d/d 14: Practice
v/v 62111235: $MBR
v/v 62111236: $FAT1
v/v 62111237: $FAT2
V/V 62111238: $OrphanFiles
```

7. Command used to find deleted file and directories: *fls -i ewf -f fat32 -o 32 -rpd disk-dump.E01*

```
r/r * 168: Home/New Microsoft Excel Worksheet.xlsx
r/r * 172: Home/New Microsoft Excel Worksheet.xlsx
r/r * 177: Home/New Microsoft Excel Worksheet.xlsx~RF108ba82.TMP
r/r * 182: Home/New Microsoft Excel Worksheet.xlsx~RF108ba82.TMP
r/r * 184: Home/List.xlsx
r/r * 186: Home/~$List.xlsx
r/r * 187: Home/_F5A0100
r/r * 188: Home/_278CD2D.tmp
r/r * 191: Home/_XAMPLES.txt
r/r * 193: Home/_PTIONS.txt
r/r * 204: Work/SecTools.Org Top Network Security Tools.html
r/r * 820456: Work/2021 Awards - Forensic 4_cast.html
r/r * 229: Practice/_hadow.txt
r/r * 230: Practice/_assword.txt
```

```
(test@kali)-[~/Desktop]
$ fls -i ewf -f fat32 -o 32 -rpd disk-dump.E01
r/r * 168: Home/New Microsoft Excel Worksheet.xlsx
r/r * 172: Home/New Microsoft Excel Worksheet.xlsx
r/r * 177: Home/New Microsoft Excel Worksheet.xlsx~RF108ba82.TMP
r/r * 182: Home/New Microsoft Excel Worksheet.xlsx~RF108ba82.TMP
r/r * 184: Home/List.xlsx
r/r * 186: Home/~$List.xlsx
r/r * 187: Home/_F5A0100
r/r * 188: Home/_278CD2D.tmp
r/r * 191: Home/_XAMPLES.txt
r/r * 193: Home/_PTIONS.txt
r/r * 204: Work/SecTools.Org Top Network Security Tools.html
r/r * 820456: Work/2021 Awards - Forensic 4_cast.html
r/r * 229: Practice/_hadow.txt
r/r * 230: Practice/_assword.txt
```

8. Command used to find file metadata of Personal directory: *fls -i ewf -f fat32 -o 32 disk-dump.E01 | grep Personal*

File metadata number: 8

```
(test@kali)-[~/Desktop]
$ fls -i ewf -f fat32 -o 32 disk-dump.E01 | grep Personal
d/d 8: Personal
```

9. Command used to find file name of inode 190: *ffind -i ewf -f fat32 -o 32 disk-dump.E01 190*

File name: List.docx

```
(test@kali)-[~/Desktop]
$ ffind -i ewf -f fat32 -o 32 disk-dump.E01 190
/Home/List.docx
```

10. What are the recorded MAC times of a folder named Home that resides at the root directory according to the times recorded within its file metadata??????

Command Used: *fls -i ewf -f fat32 -o 32 -l disk-dump.E01 10*

Last Modification Time: 2023-02-05 19:59:40 (+08)

Last Access Time: 2023-02-05 00:00:00 (+08)

Last Changed Time: 0000-00-00 00:00:00 (UTC)

r/r * 168:	New Microsoft Excel Worksheet.xlsx	2023-02-05 19:50:22 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	5760
0	0					
r/r * 172:	New Microsoft Excel Worksheet.xlsx	2023-02-05 19:50:26 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	6188
0	0					
r/r * 177:	New Microsoft Excel Worksheet.xlsx~RF108ba82.TMP	2023-02-05 19:50:22 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:22 (+08)	
0	0					
r/r * 182:	New Microsoft Excel Worksheet.xlsx~RF108ba82.TMP	2023-02-05 19:50:22 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	
5760	0					
r/r * 184:	List.xlsx	2023-02-05 19:50:26 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	6188 0
0	0					
r/r * 186:	~\$List.xlsx	2023-02-05 19:52:22 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:42 (+08)	165 0
0	0					
r/r * 187:	_F5A0100	2023-02-05 19:52:12 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	8463 0
0	0					
r/r * 188:	_278CD2D.tmp	2023-02-05 19:50:26 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	6188 0
0	0					
r/r * 190:	List.docx	2023-02-05 19:52:12 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:50:20 (+08)	8463 0
0	0					
r/r * 191:	_XAMPLES.txt	2023-02-05 19:59:14 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:59:12 (+08)	0 0
0	0					
r/r * 192:	EXAMPLES.txt	2023-02-05 19:59:14 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:59:12 (+08)	15013 0 0
0	0					
r/r * 193:	_PTIONS.txt	2023-02-05 19:59:40 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:59:38 (+08)	0 0 0
0	0					
r/r * 194:	OPTIONS.txt	2023-02-05 19:59:40 (+08)	2023-02-05 00:00:00 (+08)	0000-00-00 00:00:00 (UTC)	2023-02-05 19:59:38 (+08)	41575 0 0

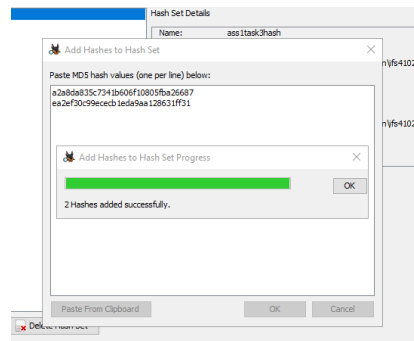
Task 3:

- Using the “Views” section of the tree viewer, there are 14 deleted files, and finding the files with the .txt extension are below

Full path names of files	Last Modified Time:
/img_disk-dump.E01/vol_vol2/Home/_PTIONS.txt	2023-02-05 19:59:40 SGT
/img_disk-dump.E01/vol_vol2/Home/_XAMPLES.txt	2023-02-05 19:59:14 SGT
/img_disk-dump.E01/vol_vol2/Practice/_hadow.txt	2023-02-05 19:02:22 SGT
/img_disk-dump.E01/vol_vol2/Practice/_assword.txt	2023-02-05 19:02:46 SGT

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dr)	Flags(Meta)	Known	Location
New Microsoft Excel Worksheet.xlsx				2023-02-05 19:50:26 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:20 SGT	6188	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
New Microsoft Excel Worksheet.xlsx-4F108ba82.TMP				2023-02-05 19:50:24 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:22 SGT	0	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
Lst.xlsx				2023-02-05 19:50:26 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:20 SGT	6188	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_7KCD3.tmp				2023-02-05 19:50:26 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:20 SGT	6188	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_XAMPLES.txt				2023-02-05 19:59:14 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:59:12 SGT	0	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_FTION5.txt				2023-02-05 19:59:40 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:59:38 SGT	0	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
SecTools.Org Top Network Security Tools.html				2023-02-05 20:02:56 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 20:02:55 SGT	0	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
2021 Awards - Forensic 4_cas.html				2023-02-05 19:52:12 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 20:08:03 SGT	0	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_F540100				2023-02-05 19:50:22 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:20 SGT	8463	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
New Microsoft Excel Worksheet.xlsx				2023-02-05 19:50:22 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:20 SGT	5760	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
New Microsoft Excel Worksheet.xlsx-4F108ba82.TMP				2023-02-05 19:50:22 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:20 SGT	5760	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_Lst.xlsx				2023-02-05 19:02:22 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:50:42 SGT	165	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_hadow.txt				2023-02-05 19:02:22 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:32:03 SGT	1206	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2
_assword.txt				2023-02-05 19:02:46 SGT	0000-00-00 00:00:00	2023-02-05 00:00:00 SGT	2023-02-05 19:32:03 SGT	1615	Unallocated	Unallocated	unknown	/img_disk-dump.E01/vol_vol2

- Using “Run Ingest Modules” under Tools, we will use the Hash Lookup modules. Creating a new hash set and then adding the hashes to the hash set to search for.



Ea2ef30c99ecec1eda9aa128631ff31 : /img_disk-dump.E01/vol_vol2/Practice/ca_setup.jpg

A2a8da835c7341b606f10805fba26687 : /img_disk-dump.E01/vol_vol2/Work/Sales-data-1.zip/x64/ophcrack.exe

Source Name	S	C	O	MD5 Hash	Comment	File Path
ca_setup.jpg			0	ea2ef30c99ecec1eda9aa128631ff31		/img_disk-dump.E01/vol_vol2/Practice/ca_setup.jpg
ophcrack.exe			0	a2a8da835c7341b606f10805fba26687		/img_disk-dump.E01/vol_vol2/Work/Sales-data-1.zip/x64/ophcrack.exe

3. “Interesting Files Identifier” adding a global setting and a new rule that includes the name “tool” as a substring.

/img_disk-dump.E01/vol_vol2/Work/SecTools.Org Top Network Security Tools.html

d41d8cd98f00b204e9800998ecf8427e (deleted file hash)

/img_disk-dump.E01/vol_vol2/Work/SecTools.Org Top Network Security Tools.html

/img_disk-dump.E01/vol_vol2/Work/Web vulnerability scanners – SecTools Top Network Security Tools.html

Source Name	S	C	O	Source Type	Score	Conclusion	Configuration	Justification	Category	File Path	Modified Time	Changed Time
SecTools.Org Top Network Security Tools.html				File	Likely Notable		tool files			/img_disk-dump.E01/vol_vol2/Work/SecTools.Org Top Net...	2023-02-05 20:02:56 SGT	0000-00-00 00:00
SecTools.Org Top Network Security Tools.html				File	Likely Notable		tool files			/img_disk-dump.E01/vol_vol2/Work/SecTools.Org Top Net...	2023-02-05 20:03:02 SGT	0000-00-00 00:00
Web vulnerability scanners – SecTools Top Network Sec...				File	Likely Notable		tool files			/img_disk-dump.E01/vol_vol2/Work/Web vulnerability scan...	2023-02-05 20:04:30 SGT	0000-00-00 00:00

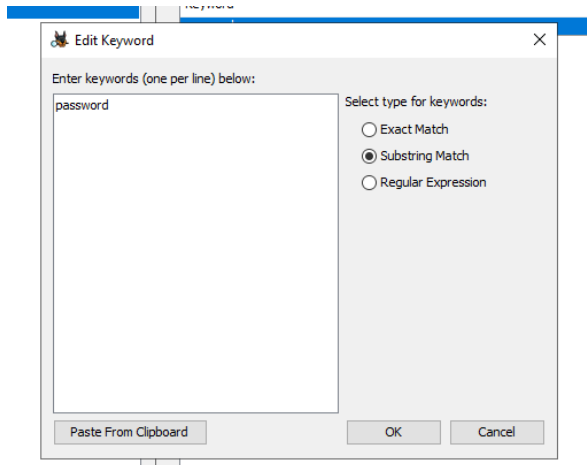
- 4.

Source Name	S	C	O	Keyword	Keyword Regular Expression	Keyword Preview	Modified Time	Access Time	Change Time	File Path
appro@openssl.org				appro@openssl.org	(?i)[a-z0-9%+_-]{1,64}[a-z0-9%+_-]{1,64}@openssl.org	appro@openssl.org	2018-03-06 23:12:16 SGT	0000-00-00 00:00:00	0000-00-00 00:00:00	/img_disk-dump.E01/vol_vol2/Work/Sales-data-1.zip/x64/ophcrack_nogui.exe
davek@fakeaddress.com				davek@fakeaddress.com	(?i)[a-z0-9%+_-]{1,64}[a-z0-9%+_-]{1,64}@fakeaddress.com	davek@fakeaddress.com	2018-03-06 23:12:16 SGT	0000-00-00 00:00:00	0000-00-00 00:00:00	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
davek@social-engineer.org				davek@social-engineer.org	(?i)[a-z0-9%+_-]{1,64}[a-z0-9%+_-]{1,64}@social-engineer.org	davek@social-engineer.org	2018-03-06 23:12:16 SGT	0000-00-00 00:00:00	0000-00-00 00:00:00	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
davek@trustedsec.com				davek@trustedsec.com	(?i)[a-z0-9%+_-]{1,64}[a-z0-9%+_-]{1,64}@trustedsec.com	davek@trustedsec.com	2018-03-06 23:12:16 SGT	0000-00-00 00:00:00	0000-00-00 00:00:00	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
info@trustedsec.com				info@trustedsec.com	(?i)[a-z0-9%+_-]{1,64}[a-z0-9%+_-]{1,64}@trustedsec.com	info@trustedsec.com	2018-03-06 23:12:16 SGT	0000-00-00 00:00:00	0000-00-00 00:00:00	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
jseward@bzip.org				jseward@bzip.org	(?i)[a-z0-9%+_-]{1,64}[a-z0-9%+_-]{1,64}@bzip.org	jseward@bzip.org	2018-03-06 23:12:16 SGT	0000-00-00 00:00:00	0000-00-00 00:00:00	/img_disk-dump.E01/vol_vol2/Work/Sales-data-1.zip/x64/ophcrack.exe

appro@openssl.org	/img_disk-dump.E01/vol_vol2/Work/Sales-data-1.zip/x64/ophcrack_nogui.exe
davek@fakeaddress.com	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
davek@social-engineer.org	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
davek@trustedsec.com	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
info@trustedsec.com	/img_disk-dump.E01/vol_vol2/Personal/SET.pdf
jseward@bzip.org	/img_disk-dump.E01/vol_vol2/Work/Sales-data-1.zip/x64/ophcrack.exe

List Name	Files with Hits
appro@openssl.org (8)	8
davek@fakeaddress.com (2)	2
davek@social-engineer.org (2)	2
davek@trustedsec.com (2)	2
info@trustedsec.com (2)	2
jseward@bzip.org (4)	4

5.



EXAMPLES.txt	password
	passwords
	password.lst
OPTIONS.txt	password
	passwords

Source Name	S	C	O	Keyword	Keyword Regular Expression	Keyword Preview	
EXAMPLES.txt			0	password	password	get a copy of your «password» file. if your syst	
EXAMPLES.txt			0	passwords	password	systemuses shadow «passwords», you may use john's	
EXAMPLES.txt			0	password.lst	password	than john'sdefault «password.lst» and edit the "wordl	
EXAMPLES.txt			0	password	password	get a copy of your «password» file. if your syst	
OPTIONS.txt			0	password	password	line arguments are «password» file names andopti	2
OPTIONS.txt			0	passwords	password	(ratio of candidate «passwords» suppressed does not	2
OPTIONS.txt			0	password	password	line arguments are «password» file names andopti	2
OPTIONS.txt			0	passwords	password	(ratio of candidate «passwords» suppressed does not	2
OPTIONS.txt			0	password	password	line arguments are «password» file names andopti	2
OPTIONS.txt			0	passwords	password	(ratio of candidate «passwords» suppressed does not	2
OPTIONS.txt			0	password	password	line arguments are «password» file names andopti	2
OPTIONS.txt			0	passwords	password	(ratio of candidate «passwords» suppressed does not	2