Digital Forensics Experiments Report

Exp. 1

DD Command is one of the most basic and traditional command used to make a bit by bit copy of the drive/image.

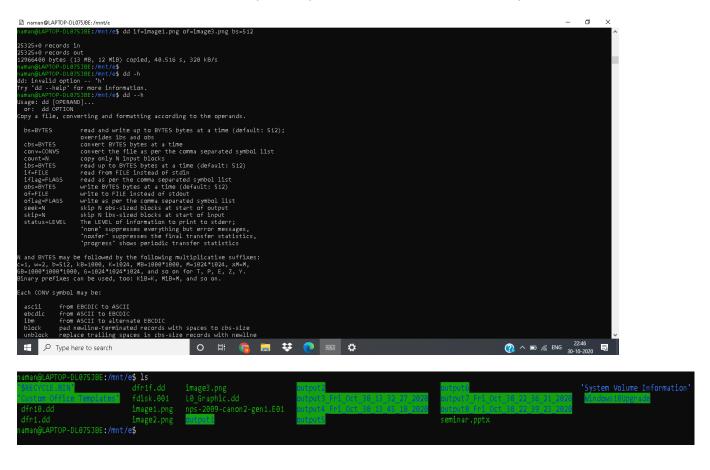
We can mention the input file and the output file for copying the image.

dd if = /media/naman/h of = /mnt/f bs = 512

dd if = /mnt/f/image1.png of = /mnt/f/image2.png bs = 512

dd command can also be used for copying files.

Here bs = block size i.e. the amount of bytes it copies each time until all blocks all copied.



Exp. 2

DD Command for Data Carving.

DD can be used for data carving also. All we need to do is to specify a skip & count offset to tell it to start from the position we want to carve the data and how much to carve.

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\$ dd if = LO_Graphic.dd of = image2.png bs = 512 count = 25325



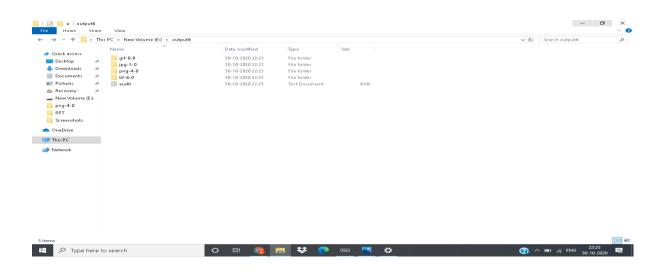
\$ dd if = L0_Graphic.dd of = image2.png bs = 512 count = 20000

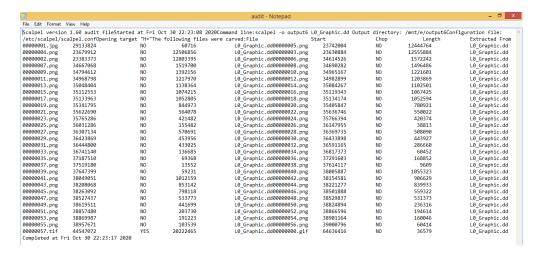


Exp. 3

Scalpel is an open-source tool used for data carving. It has a config file which contains all the predefined headers which we need to uncomment in order to carve files of those formats.

- 1. Sudo apt-get install scalpel.
- 2. Nano /etc/scalpel/scalpel.config > Uncomment #jpg,#tif,#gif,#png
- Scalpel -o output6 LO_Graphic.dd (-o offset specifies the output file)





Foremost:

It's also an open source tool for file carving like scalpel. It differs in it's output file an execution command offset.

\$ foremost -T jpeg,png,tif -o output8 -i L_0Graphic.dd

Outputs of Both:



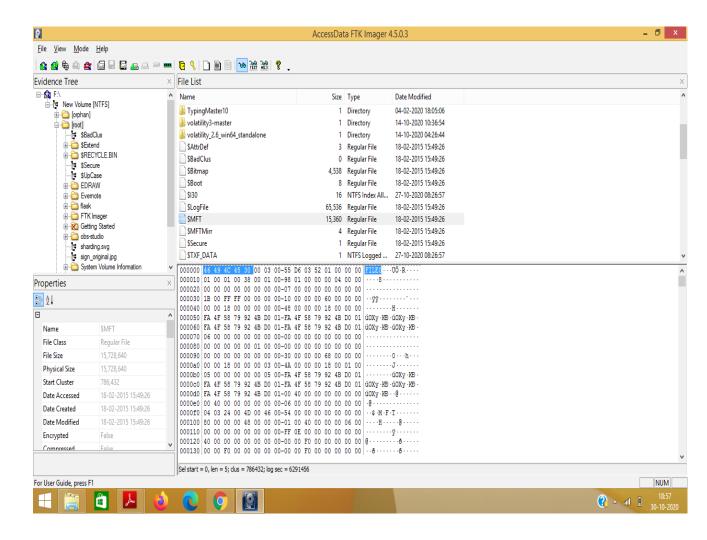


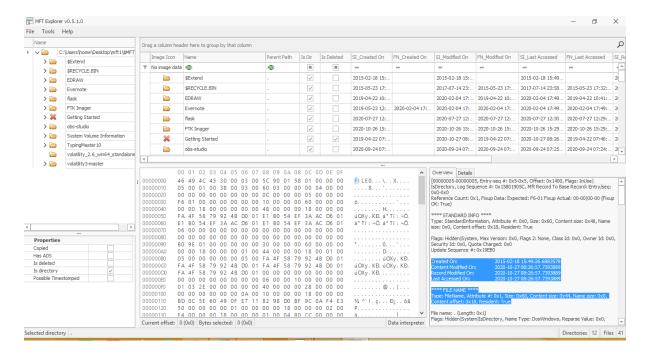


Exp. - 4 FTK Imager tool is used for forensic investigation. Using this we can extract file artifacts of different drives/images etc.

The MFT Table is an important part of NTFS file system and contains the entry of each and every file on the drive which is crucial for any digital investigation. Each entry contains important attributes of the file like type, size, date/time of creation, date/time of most recent modification etc. are stored in MFT.

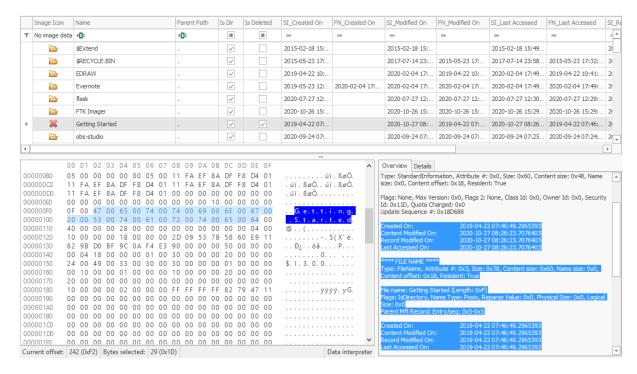
- a. Open FTK Imager.
- b. Add Evidence Item.
- c. Select Logical Drive F:\
- d. Select root>MFT
- e. This shows the MFT Table in Hex Format.
- f. Different File Attrbutes like Last Access Time, Size, Name etc. can be extracted from the is table for all the files.
- g. They can be then interpreted in a HxD Editor or a dedicated tool like MFT Explorer can be used.
- h. FILeO denotes the start of each new entry in MFT
- i. The first entry in MFT is the MFT Table itself.





In the MFT file, We can see entries of all the files in F:/ drive even the deleted ones.(above image)

Now we analyse a deleted folder named "Getting Started" which contained some videos. We can see it's entry in the MFT although it's deleted. We can extract information/metadata about it.

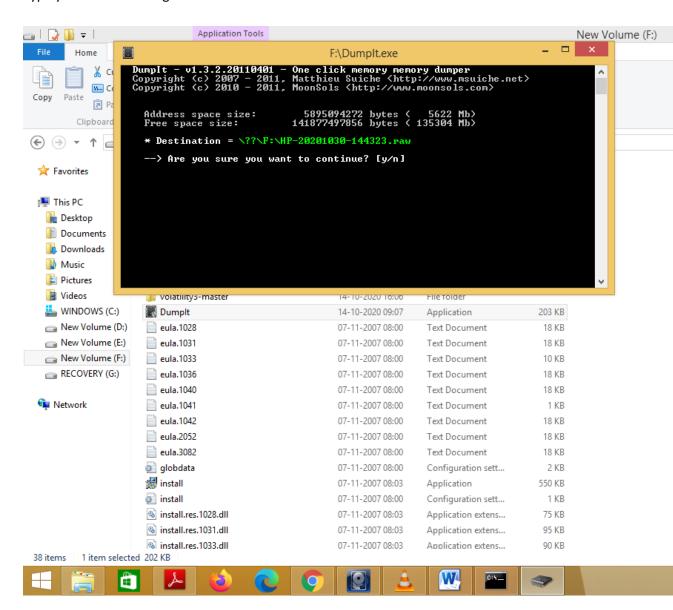


We clearly see that the entries in **SI attribute(0x10)** have changed but the entries in **FN** attribute(0x30) have not changed and remain as it is. Also the name of the folder is stored in MFT entry.

Exp. 5 Using Dumplt.exe we capture the RAM image. We can then use it for forensic analysis using Volatility tool.

Dumpit is a free tool which is easy to use.

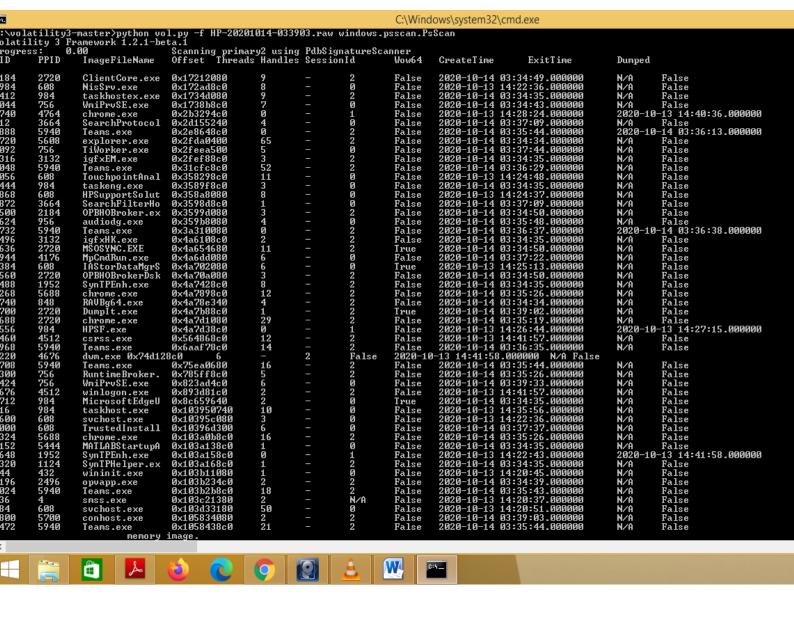
- 1. Download Dumpit.exe from Github
- 2. Open Dumpit.exe
- 3. Check the destination folder.
- 4. Type y to make the image.



Exp.6 Volatility 3 as it's name suggests is a volatile memory (RAM) Analysis tool. It's written in python. It takes as input the RAM image and has different command to show different details like Basic active process listing, terminated processes scan etc.

The major commands are:

1. Python vol.py —f HP-20201014-033903.raw windows.psscan.PsScan
This cmd shows Basic active process listing along with scanning for hidden or terminated pr



As here we can see, PID = Process ID, PPID = Parent PID, No. of thread by each process, start time, end time, Session Id.

System has PPID = 0, as it's the first process to start.

System has Session ID = N/A because the System starts before sessions are established.

2. Python vol.py —f HP-20201014-033903.raw windows.pslist.PsList This shows basic active process listing.

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Here we can see some processes (hidden processes) as compared to last one.

3. Python vol.py -f HP-20201014-033903.raw windows.pstree.PsTree This shows processes in parent-child tree format.

Here we can see parent processes and child processes clearly with starts as levels o f=f the child tree.

 $\label{eq:System} \mbox{System is the parent process.}$

Services is a parent process which has so many children.

4. Python vol.py -f HP-20201014-033903.raw windows.dlllist.DllList -pid 5940
 Shows list of all processes used by the process with -pid mentioned.
 Here the output shows the list of DLLs used by Microsoft Teams.exe pid = 5940.

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:ked\node :_modules False

5. Python vol.py —f HP-20201014-033903.raw windows.netscan.NetScan Gives Network Info like open & closed ports, processes using them, IP address, port ID etc.

GA.						C:\Windows\syste	m32\cmc	i.exe ·			
F:\volatility3-master>python vol.py -f HP-20201014-033903.raw windows.netscan.NetScan											
Volatility 3 Framework 1.2.1-beta.1											
Progress: 0.0		Şcannin					DIR				
Offset Proto	LocalAd	dr LocalPo	rt	ForeignAddr	Foreig	nPort State	PID	Owner Created			
0x17276c50	TCPv4	0.0.0.0 49159	0.0.0.0	0 LISTEN	ITNG	608 service	s_exe				
0x172bfec0	UDPv4	192.168.1.6	41072	* 0		4 System	2020-16	0-14 03:34:59.000000			
0×1733d520	UDPv4	0.0.0.0 0	*	0	4048	Teams.exe	2020-10	0-14 03:36:41.000000			
0×1733d520	UDPv6	:: 0	*	0	4048	Teams.exe		0-14 03:36:41.000000			
0×173447e0	UDPv6	::1 16528	*	0 _	3532	suchost.exe		0-14 03:36:33.000000			
0x1736c010	UDPv4	127.0.0.1	16608	* 0	4.40	3532 svchost	.exe	2020-10-14 03:36:33.000000			
0x173f4ae0	TCPv4	192.168.1.6 192.168.1.6	49493 49438	40.70.184.83	443 5228	CLOSED -		- H 46			
0x2fcdf780 0x2fda4d70	TCPv4 UDPv4	0.0.0.0 0	47438	74.125.24.188	5228 1068	ESTABLISHED suchost.exe	2020-10	- N∕A 0-14 03:35:26.000000			
0x2fdded00	TCPv4	192.168.1.6	49475	142.250.67.174		CLOSED -	2020 1	- 11 03.33.20.000000			
0x2fed6d00	UDPv4	0.0.0.0	*	И	5056	TouchpointAnal	2020-16	0-13 14:24:59.000000			
0x3580eec0	UDPv4	0.0.0.0	*	Ŏ	5056	TouchpointAnal		0-13 14:24:59.000000			
0x3580eec0	UDPv6	:: 0	*	Ø	5056	TouchpointAnal		0-13 14:24:59.000000			
0x3584f180	TCPv4	192.168.1.6	49498	52.114.6.176	443	ESTABĒISHED		- N∕A			
0×35929d00	TCPv4	192.168.1.6	49436	13.233.76.15	443	CLOSED -		N/A			
0x37cde010	TCPv4	192.168.1.6	49464	52.114.16.94	443	ESTABLISHED		- N/A			
0x4a4b3d00	TCPv4	192.168.1.6	49499	52.187.17.92	443 5688	ESTABLISHED	_	- N/A			
0x4a66d5d0 0x4a66d5d0	UDPv4 UDPv6	0.0.0.0 0 :: 0	*	0 0	5688	chrome.exe chrome.exe	2020-10 2020-10	9-14 03:36:09.000000 9-14 03:36:09.000000			
0x4a6d48f0	UDPv4	0.0.0.0 0	*	0	5688	chrome.exe		0-14 03:36:09.000000			
0x4a70e930	UDPv4	0.0.0.0	*	Ø	4048	Teams.exe		0-14 03:36:41.000000			
0x4a70e930	UDPv6	:: 0	*	ŏ	4048	Teams.exe	2020-16	0-14 03:36:41.000000			
0x51b97da0	UDPv4	192.168.1.6	41072	* 0		3532 svchost		2020-10-14 03:36:33.000000			
0×72610570	UDPv4	0.0.0.0 0	*	0	4048	Teams.exe		0-14 03:36:38.000000			
0×759£d760	TCPv4	192.168.1.6	49448	151.139.128.14	1 80	CLOSED -					
0x76c28800	UDPv4	192.168.1.6	41072	* 0		4 System	2020-10	0-14 03:34:59.000000			
0x7bbb1010	TCPv4	192.168.1.6	49449	117.239.189.11		CLOSED -	-	N/A			
0x98aeb270 0x996fe6a0	UDPv4 UDPv6	0.0.0.0 0 fe80::ac56:3c92		0 ee 49266	1068 *	svchost.exe Ø	2020-11 956	0-14 03:40:28.000000 svchost.exe 2020-10-14 03:35:26.00000	30		
0x103942010	UDPv4	192.168.1.6	41072	ee 47200 * 0	*		ponder.		96		
0x103742010	TCPv4	192.168.1.6	49497	52.114.6.176	443	ESTABLISHED	ponder.	- N/A			
0×10399dec0	ÛDPv4	0.0.0.0	*	0	4048	Teams.exe	2020-10	0-14 03:36:38.000000			
0x10399dec0	UDPv6	:: 0	*	Ø	4048	Teams.exe		0-14 03:36:38.000000			
0x1039cd010	UDPv6	::1 16528	*	0	3532	svchost.exe		0-14 03:36:33.000000			
0×1039db440	UDPv4	0.0.0.0 0	*	0	1068	svchost.exe		0-14 03:40:28.000000			
0x1039db440	UDPv6	:: 0	*	0	1068	svchost.exe		0-14 03:40:28.000000			
0x1039de260	UDPv4	0.0.0.0 0	*	0	2600	svchost.exe	2020-1	0-13 14:22:37.000000			
0x1039de260 0x1039de970	UDPv6 UDPv4	:: 0	*	Ø Й	2600 2600	svchost.exe		0-13 14:22:37.000000			
0x1039de970 0x103d31c30	TCPv4	0.0.0.0 0 0.0.0.0 49153	* 0.0.0.0			svchost.exe 956 svchost		D-13 14:22:37.000000			
0x1058776b0	UDPv4	0.0.0.0 0	e.e.e.e	0 LISIER	5940	Teams.exe		0-14 03:39:15.000000			
0×1058776b0	UDPv6	:: 0	*	Ä	5940	Teams.exe		0-14 03:39:15.000000			
0x1058ee010	UDPv6	fe80::ac56:3c92	:7a59:c0	ee 49266	*	0	3532	sychost.exe 2020-10-14 03:36:33.00000	3 0		
0×10596c430	UDPv6	fe80::ac56:3c92	:7a59:c0	ee 49266	*	Ō	956	svchost.exe 2020-10-14 03:40:28.00000			
0×1073d5930	TCPv4	192.168.1.6	49413	40.119.211.203		ESTABLISHED		- N/A			
0x10b483870	TCPv4	0.0.0.0 49153	0.0.0.0			956 svchost					
0х10Ъ483870	TCPv6	:: 49153	::	0 LISTEN	IING	956 svchost					
0x1132a6ed0	TCPv4	0.0.0.0 135	0.0.0.0			788 sychost					
0x1133694c0	TCPv4	0.0.0.0 135 :: 135	0.0.0.0			788 sychost		_			
0x1133694c0 0x11b7fe1b0	TCPv6 TCPv4	:: 135 0.0.0.0 49152	:: 0.0.0.0			788 svchost 544 wininit		_			
OVIINLICINO	10101	0.0.0.0 17132	0.0.0.0	o moter	11110	211 WINTHIT					