DISK IMAGE ANALYSIS

USING AUTOPSY



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INTRODUCTION.

This is our last part of device forensic, after doing USB write protection, creating disk image, now it is time to retrieve all contents of USB drive and make analysis of it.

Below are the steps

After opening autopsy, it should look as shown in the figure 1.



Fig. 1.

In the new case click addition sign to create new case as shown in the figure 1.

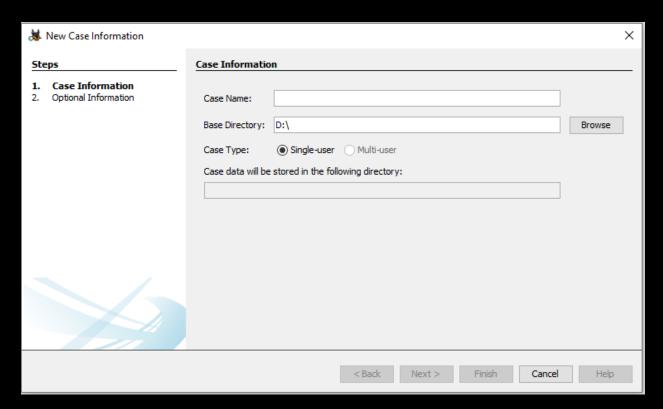


Fig. 2.

After clicking new case in the figure one, new window will open as shown in the figure 2. In the case name field, fill it with the name of the case, make sure single user is marked.

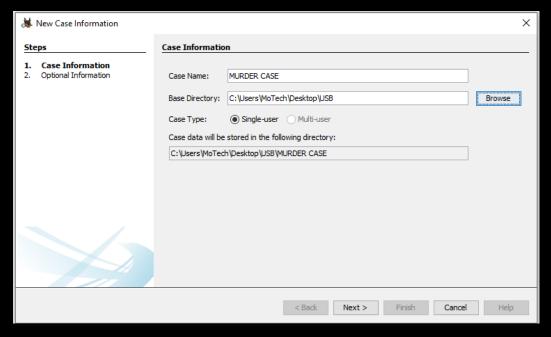


Fig. 3.

In the figure 3, Base Directory is the directory for the case to be written and the name of our case is MURDER CESE, so inside folder called USB in the desktop case name will be written, fill all information as shown in the figure 2 above and then click next.

🔉 New Case Information		×		
Steps	Optional Info	rmation		
Case Information Optional Information	Case			
	Number:	01		
	Examiner			
	Name:	moses		
	Phone:	12345		
	Email:	moses@gmail.com		
	Notes:	This is murdercase		
	Organization			
	Organization analysis is being done for: Manage Organizations			
		< Back Next > Finish Cancel Help		

Fig. 4.

🔉 Add Data Source			×					
Steps	Select Data	Source						
Select Type of Data Source To Add	Path:							
2. Select Data Source	C:\Users\Mo	Browse						
Configure Ingest Modules Add Data Source	☐ Ignore orphan files in FAT file systems							
	Time zone:	Time zone: (GMT-8:00) America/Los_Angeles						
	Sector size:	Auto Detect 🗸						
	Hash Values							
	MD5:							
	SHA-1:							
	SHA-256:							
	NOTE: These	values will not be validated when the data source is added.						
	NOTE: ITIESE	values will not be validated when the data source is disdear						
		< Back Next > Finish Car	ncel Help					

Fig. 5.

In the figure 5 we can see the data source file which is the image created by using FTK.

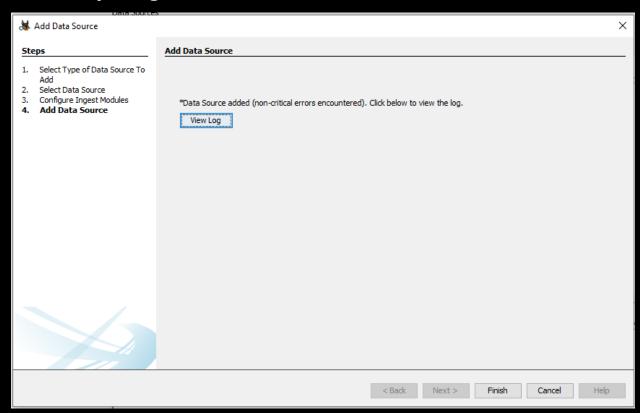


Fig. 6.

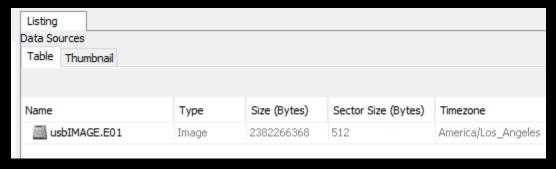


Fig. 7.

Figure number 7 shows the detected USB which contain retrieved files.

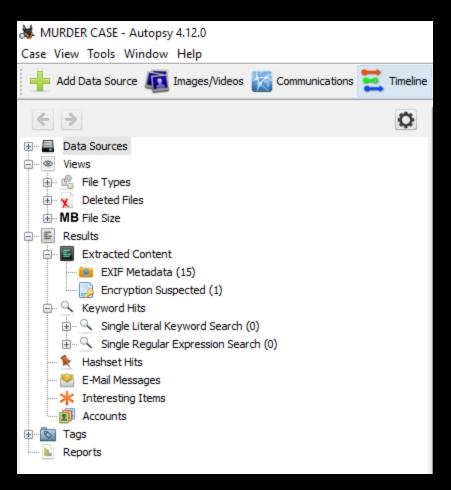


Fig. 8.

Figure number 8 shows the tree structure of contents retrieved.

Source File	S	С	Date Created	Device Model	Device Make	Data Source
is f0592696.jpg			2012-07-31 11:23:51 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0583624.jpg			2012-07-31 10:08:38 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0572672.jpg			2012-07-31 09:55:42 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0563720.jpg			2012-07-31 09:53:04 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0553216.jpg			2012-07-31 09:46:19 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0544296.jpg			2012-07-31 09:43:51 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0536064.jpg			2012-07-31 09:43:34 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0525048.jpg			2012-07-31 09:41:18 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0515504.jpg			2012-07-31 09:39:11 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0504448.jpg			2012-07-30 19:21:54 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0493152.jpg			2012-07-30 19:20:50 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0481328.jpg			2012-07-30 19:20:25 PDT	Canon EOS 450D	Canon	usbIMAGE.E01
iii f0471136.jpg			2012-07-30 19:08:10 PDT	Canon EOS 450D	Canon	usbIMAGE.E01

Fig. 9.

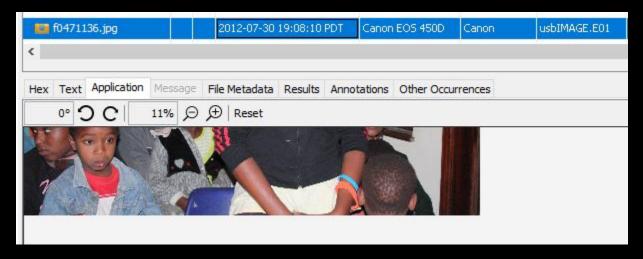


Fig. 10.

Figure number 9 and number 10 shows deleted files which is recovered.



Fig. 11.

Figure number 11 shows retrieved emails, these tools are working fine, if victim deleted files all files are retrieved, if user refuse that he or did not used any email in computer, all emails are retrieve.

CONCLUSION.

If all evidences are found, in the USB of user then according to laws user should be held responsible, thank you that is the end of Device Forensic, thank you for being with me from the start till the end.

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