$Lab\ 1-Evidence\ Aquisition$

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About the Lab

The objective of the lab is to acquire two image of the file/ evidence, in this case a USB drive, using FTK Imager where one of them is a Logical Image and the other is a Physical Image.

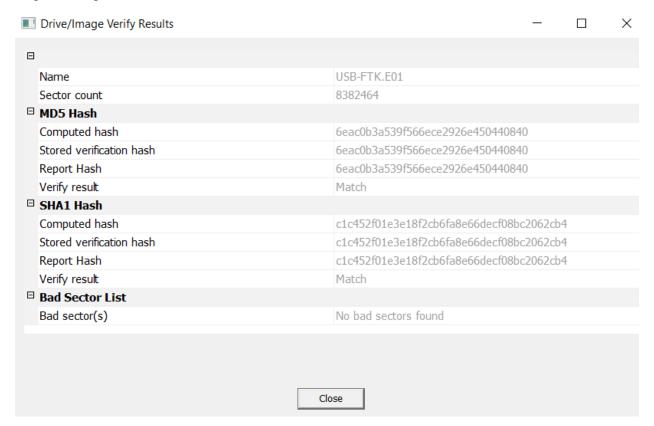
Part 1

1. What is the resulting File format of the image?

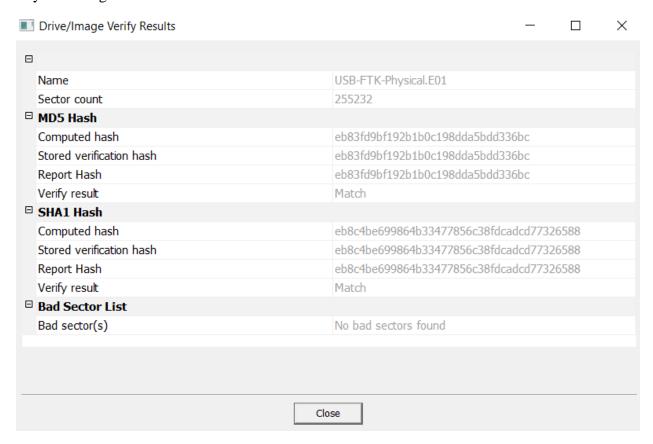
The resulting file format is .e01, also known as Encase Image File Format. A more simple explanation is that EnCase is used to compress the data/ evidence and the data is stored in sector 1

2. What is the hash of the image?

Logical Image



Physical Image



3. Difference between Physcial and Logical Image

Physical Image: In a layman's language physical is the exact copy of all the data that is present in a file system/ evidence. It copies all the data bit by bit, even if something doesn't make sense or not accessible.

Logical Image: It copies all the accessible data from one file system to another and presents in a user-friendly manner that is very easy to access. The only disadvantage is that if there are any sections in the file system that are not accessible, it will not copy that section of data.

Conclusion

From this lab I learnt what is the difference between logical and physical image and how important imaging tools are for forensic investigators and also how to create an image of an evidence.