Section Introduction, Forensics Fundamentals

This section of the Digital Forensics domain will cover fundamental knowledge that is key when working on digital forensics tasks. This includes areas such as various file systems, storage media fundamentals, data representation, metadata and file carving, memory analysis, and Order of Volatility.

LEARNING OBJECTIVES

By the end of this section you will have achieved the following objectives:

- Understand how data can be represented in different formats, and how to interpret it.
- Understand hard-disk drive and solid-state disk drive fundamentals, including how they work, and how data can be hidden in certain regions.
- Understand file systems such as FAT and NTFS.
- Understand what metadata is, what file carving is, and how to perform file carving to retrieve hidden data.
- Understand the Order of Volatility concept, and how some artifacts need to be retrieved before they are lost (such as memory and page file artifacts).

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