Concepts to note for week4...

FUNCTIONS OF DIGITAL FORENSICS TOOLS

- MAINLY INCLUDE
 - Acquisition Making a copy of original drive
 - Validation & Verification. Which include the following and others:-
 - hashing Ensure data hasn't been changed
 - Filtering To separate good files and files need to be investigated. Remember you are dealing with million of items
 - Analysing File Header To check on change file type. Sometime file header is changed to hide information
 - Extraction Recovering data, keyword searching, file caving, decryption and others
 - Reconstruction Recreate a suspect drive to show what happen during a crime
 - Reporting

Chapter Quiz:-

 In software acquisition, there are three type of data copy method.

□ True

False

2 types: physical & logical

□ False

- 2. Which of the following is not a sub-functions of "Extraction"
 - a. Data Viewing
 - b. Keyword Searching
 - c. Bookmarking
 - d. Reporting

d. Reporting

Reporting is required after finding is finalised.

Chapter Quiz (Cont):-

- 3. In general, forensics workstations can be divided into ____ categories.
 - a. 2
 - b. 3
 - c. 4
 - d. 5

- b. 3
- Stationary
- Portable
- Lightweight
- 4. Many vendors have developed write-blocking devices that connect to a computer through FireWire,____ 2.0 and 3.0, SATA, PATA, and SCSI controllers.
 - a. USB
 - b. IDE
 - c. LCD
 - d. PCMCIA

a. USB

Revision: File System Metadata and Application Metadata...

▶ For exercise 3A:

1) File System Metadata

 Indicates the date the file was first saved on the hard drive on which it is currently residing

2) Application Metadata

 Indicates that the document was created (came into existence) by author.

Thoughts-on-Ambassador-Owls.docx File System Last Modified Date/Time 3/26/2019 3:49:20 PM File System Last Accessed Date/Time 3/26/2019 3:49:18 PM File System Created Date/Time 3/26/2019 3:49:18 PM Size (Bytes) 151474 Saved Size (Bytes) 151474 Authors Steve Martin Steve Martin Last Author Last Modified Date/Time 9/23/2017 8:34:00 AM 9/23/2017 8:34:00 AM Created Date/Time 00a43bf9594b8eb33ec95e06b05e0384 MD5 Hash SHA1 Hash c8d1398c9e1b6482f85b4ed072cc8d3bb99a13cc Artifact type Word Documents Item ID 23772



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Thoughts-on-Ambassador-Owls.docx

File extension : .docx Logical size : 151,474 bytes

Week 4 Lab – File Caving

- Work on Week 4 Lab File Caving
 - https://www.garykessler.net/library/file_sigs.html
- Tool WinHex will be used to perform file analysis, file signature analysis, file caving and others
- Once finish your winhex exercise, do work on Practical 3 challenge question and submit your answer to BS individually. To install prodiscover for your challenge, can go to BS/Other Resources/Software
- ▶ Continue to work on **assignment 1** if got time...