



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of the UGC Act, 1956)

WINTER SEMESTER 2019-20
DIGITAL FORENSICS (CSE4004)
LAB ASSIGNMENT - 6

Dishi Jain
17BCB0055

Autopsy - Digital Forensics Tool

Autopsy is computer software that makes it simpler to deploy many of the open source programs and plugins used in the Sleuth kit. The graphical user interface displays the results from the forensic search of the underlying volume making it easier for investigators to flag pertinent sections of data.

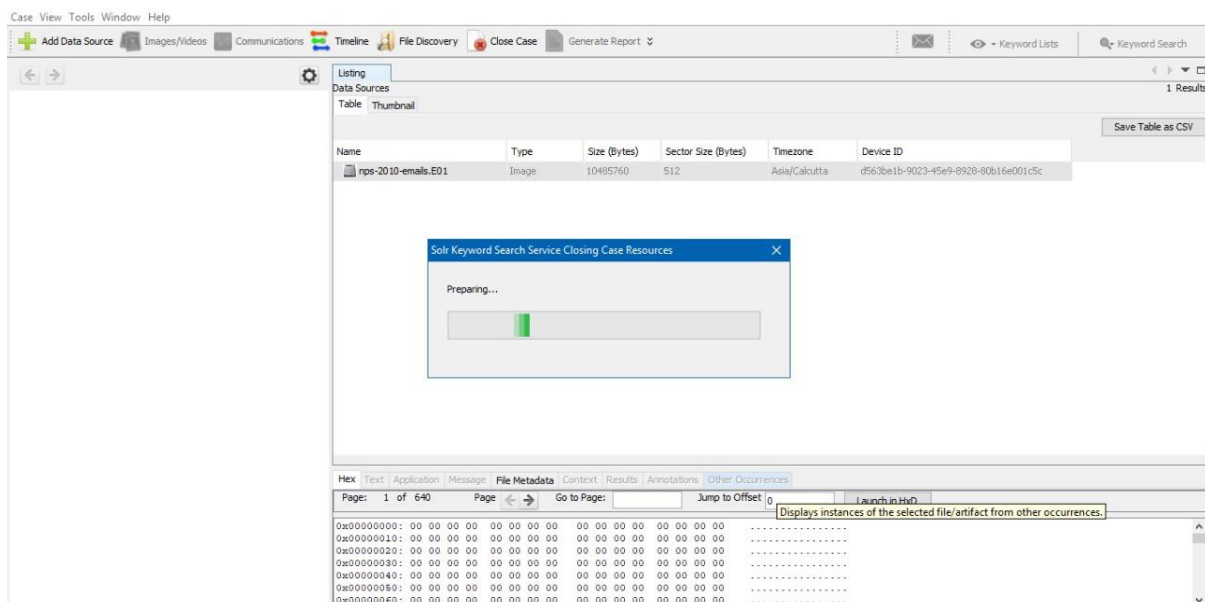
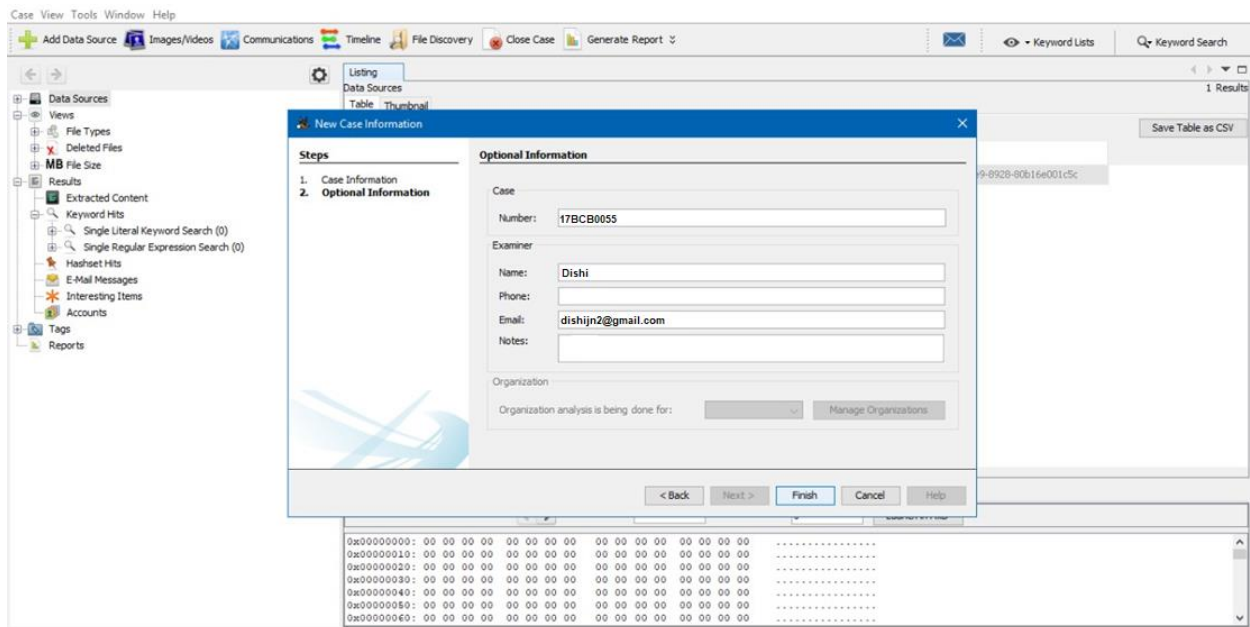
Process:

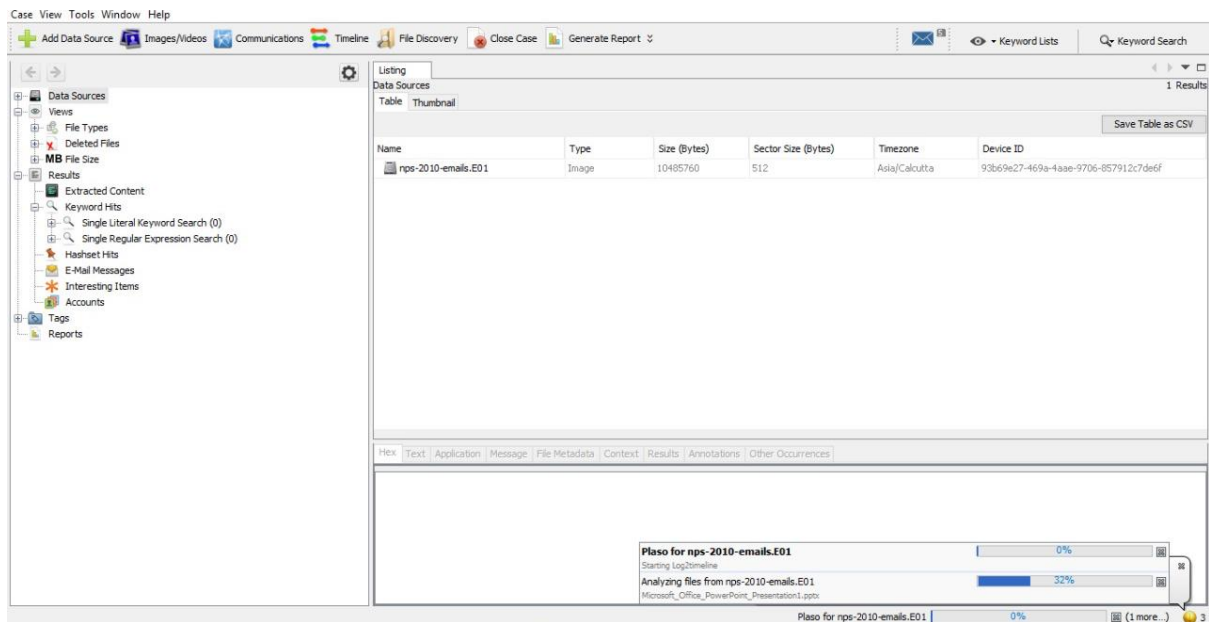
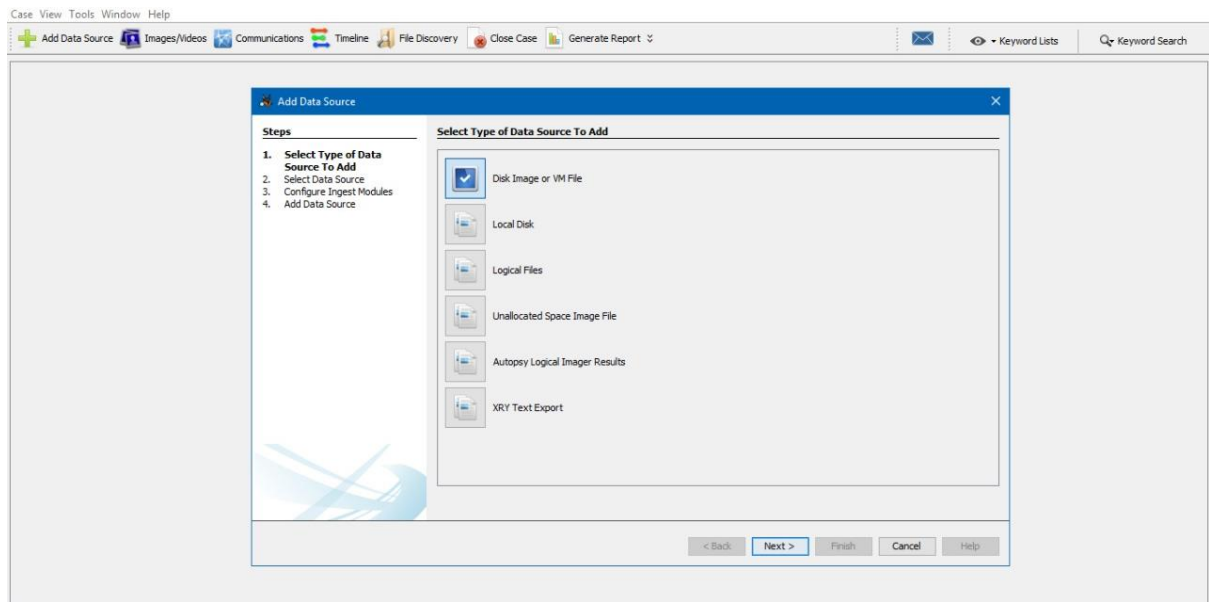
Autopsy analyzes major file systems (NTFS, FAT, ExFAT, HFS+, Ext2/Ext3/Ext4, YAFFS2) by hashing all files, unpacking standard archives (ZIP, JAR etc.), extracting any EXIF values and putting keywords in an index. Some file types like standard email formats or contact files are also parsed and cataloged. Users can search these indexed files for recent activity or create a report in HTML or PDF summarizing important recent activity. If time is short, users may activate triage features that use rules to analyze the most important files first. Autopsy can save a partial image of these files in the VHD format.

Correlation:

Investigators working with multiple machines or file systems can build a central repository of data allowing them to flag phone numbers, email addresses, file or

other pertinent data that might be found in multiple places. The SQL Lite or PostgreSQL data base stores the information so investigators can find all occurrences of names, domains, phone numbers or USB registry entries.





Case View Tools Window Help

Add Data Source Images/Videos Communications Timeline File Discovery Close Case Generate Report

Keyword Lists Keyword Search

Data Sources Views File Types By Extension By MIME Type application vnd.apple.pages (1) zip (3) vnd.apple.keynote (1) vnd.openxmlformats-officedocument.spreadsheetml.sheet (1) rtf (1) octet-stream (2) vnd.openxmlformats-officedocument.presentationml.presentation (1) pdf (5) vnd.ms-excel (1) vnd.openxmlformats-officedocument.wordprocessingml.document (5) msword (4) vnd.apple.numbers (1) x-gzip (4) image multipart text Deleted Files MB File Size Results Extracted Content Keyword Hits Single Literal Keyword Search (0) Single Regular Expression Search (0) Email Addresses (35) Hashset Hits F-Mail Messages

Listing application 13 Results

Table Thumbnail Save Table as CSV

Subtype

vnd.apple.pages (1)
zip (3)
vnd.apple.keynote (1)
vnd.openxmlformats-officedocument.spreadsheetml.sheet (2)
rtf (1)
octet-stream (2)
vnd.openxmlformats-officedocument.presentationml.presentation (1)
pdf (5)
vnd.ms-excel (1)
vnd.openxmlformats-officedocument.wordprocessingml.document (5)
msword (4)
vnd.apple.numbers (1)
x-gzip (4)

Hex Text Application Message File Metadata Context Results Annotations Other Occurrences

Case View Tools Window Help

Add Data Source Images/Videos Communications Timeline File Discovery Close Case Generate Report

Keyword Lists Keyword Search

Data Sources Views File Types By Extension By MIME Type Deleted Files MB File Size Results Extracted Content Keyword Hits Single Literal Keyword Search (0) Single Regular Expression Search (0) Email Addresses (35) Hashset Hits E-Mail Messages Interesting Items Accounts Tags Reports

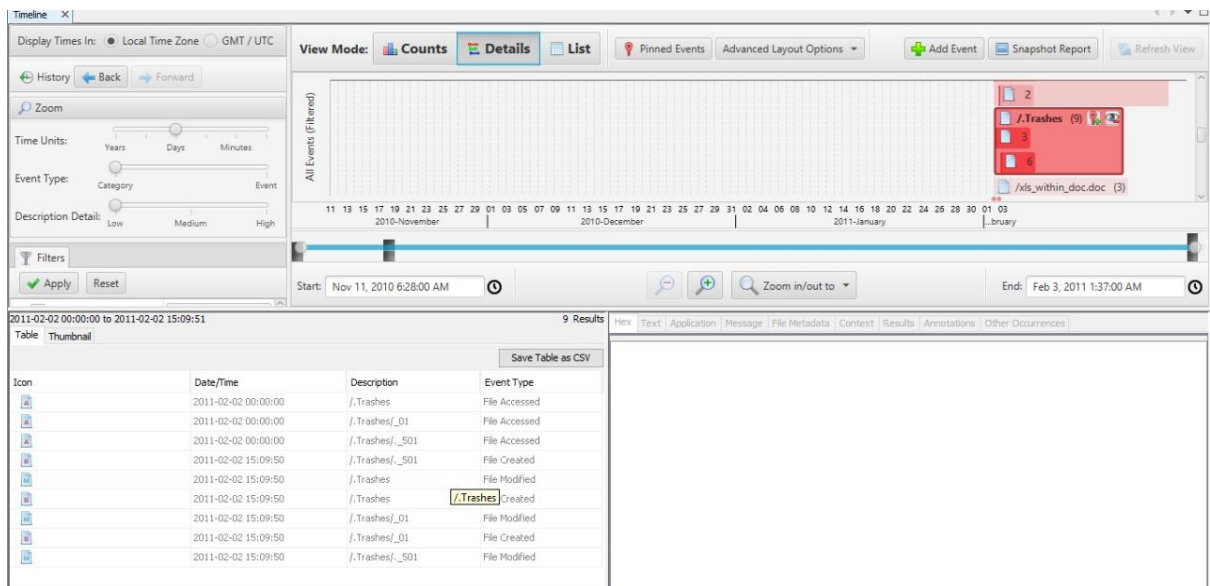
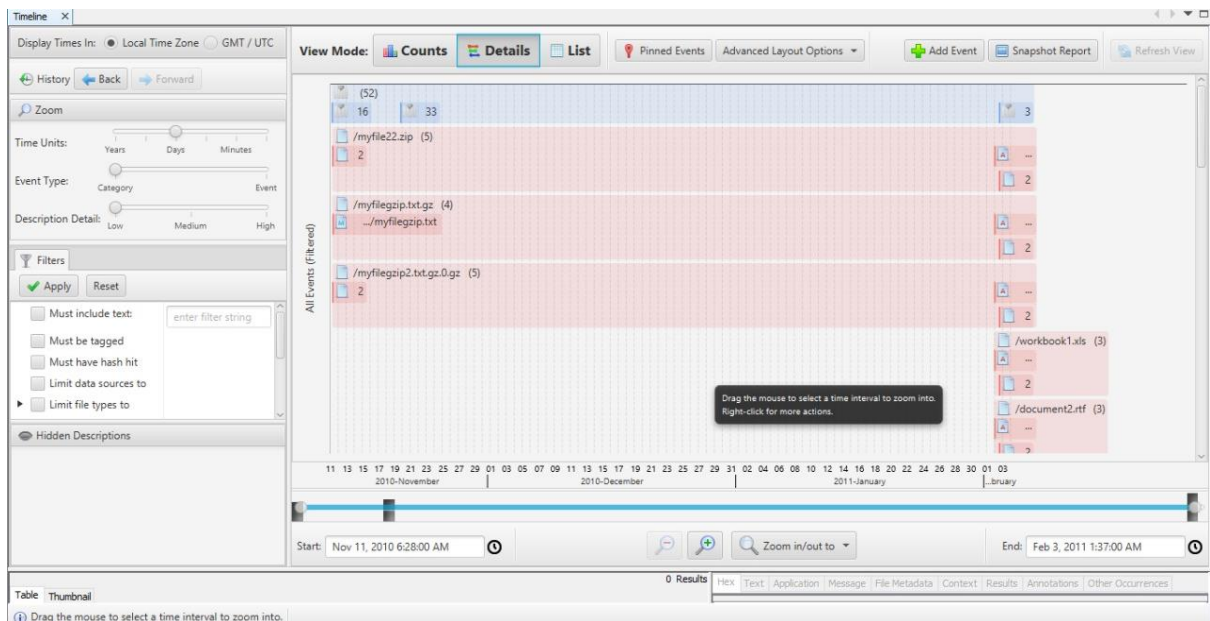
Listing Deleted Files 2 Results

Table Thumbnail Save Table as CSV

Type

File System (2)
All (3)

Hex Text Application Message File Metadata Context Results Annotations Other Occurrences



Report Navigation

- Case Summary
- Data Source Usage (1)
- Keyword Hits (35)
- Tagged Files (0)
- Tagged Images (0)
- Tagged Results (0)

Assignment

Autopsy Forensic Report

HTML Report Generated on 2020/02/09 20:18:41

Case: Aaa
Case Number: 178CB0055
Number of Images: 1
Notes:
Examiner: Dishy

Image Information:

nps-2010-emails.E01

Timezone: Asia/Calcutta
Path: C:\Users\User\Desktop\nps-2010-emails.E01

Software Information:

Autopsy Version:	4.14.0
Android Analyzer Module:	4.14.0
Correlation Engine Module:	4.14.0
Data Source Integrity Module:	4.14.0
Email Parser Module:	4.14.0
Embedded File Extractor Module:	4.14.0
Encryption Detection Module:	4.14.0