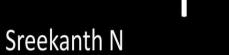
Autopsy





Agenda

- Introduction
- Features
- Screenshots
- Demo
- Results
- Conclusion
- References

Introduction

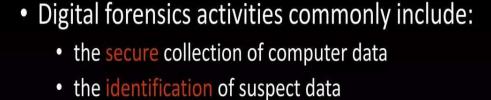
- Digital Forensics
- Autopsy

 Digital forensics is the scientific examination and analysis of data held on, or retrieved from, computer storage media in such a way that the information can be used as evidence in a court of law.



Introduction

- Digital Forensics
- Autopsy



- the examination of suspect data to determine details such as origin and content
- the presentation of computer-based information to courts of law
- the application of a country's laws to computer practice.



Introduction

Digital Forensics

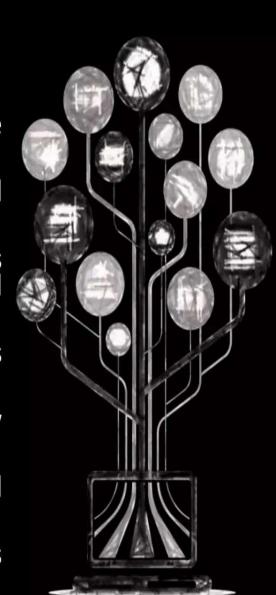




- Autopsy is an easy to use, GUI-based program that allows you to efficiently analyze hard drives and smart phones. It has a plug-in architecture that allows you to find add-on modules or develop custom modules in Java or Python.
- It can analyze Windows and UNIX disks and file systems (NTFS, FAT, UFS1/2, Ext2/3, etc.).

Features

- Multi-User Cases: Collaborate with fellow examiners on large cases.
- Timeline Analysis: Displays system events in a graphical interface to help identify activity.
- Keyword Search: Text extraction and index searched modules enable you to find files that mention specific terms and find regular expression patterns.
- Web Artifacts: Extracts web activity from common browsers to help identify user activity.
- Registry Analysis: Uses RegRipper to identify recently accessed documents and USB devices.
- LNK File Analysis: Identifies short cuts and accessed documents
- Email Analysis: Parses MBOX format messages, such as Thunderbird.

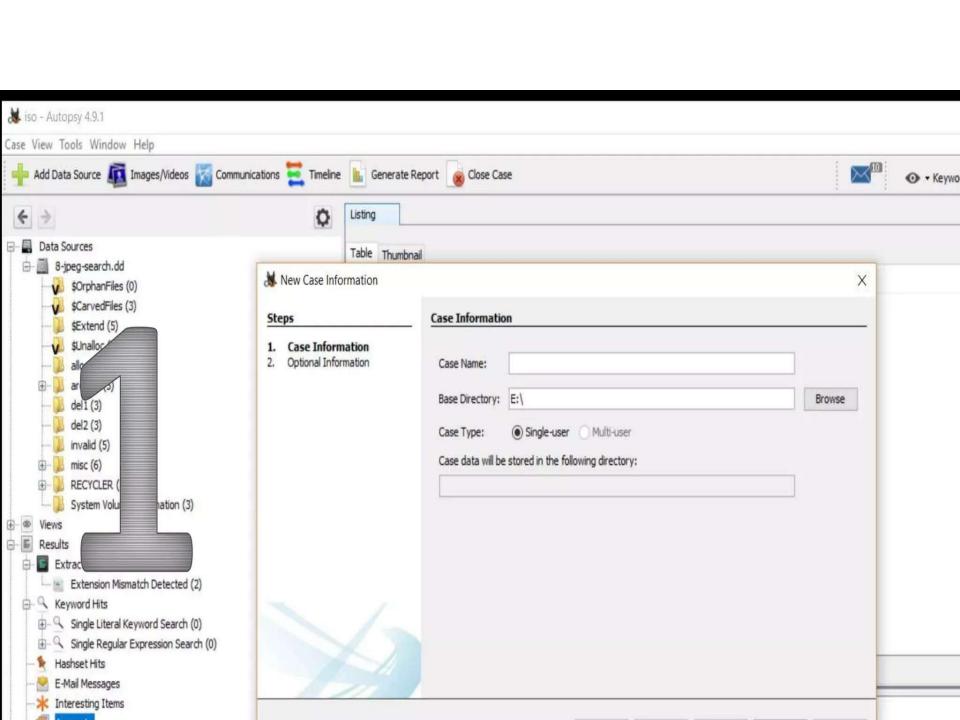


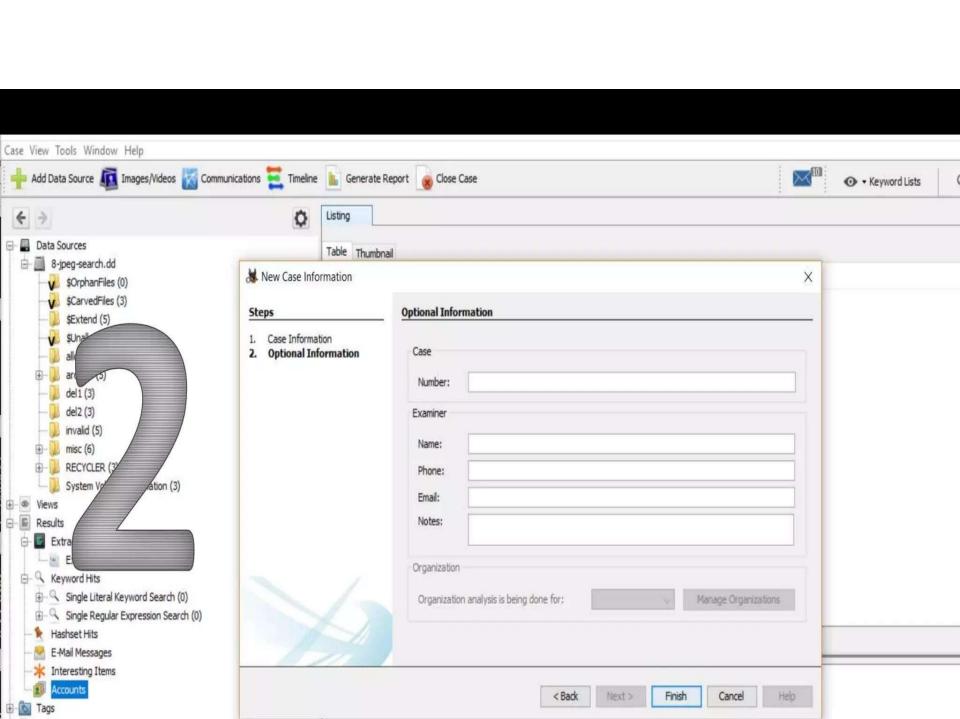
Features

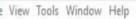
- Media Playback and Thumbnail viewer.
- Robust File System Analysis: Support for common file systems, including NTFS, FAT12/FAT16/FAT32/ExFAT, HFS+, ISO9660 (CD-ROM), Ext2/Ext3/Ext4, Yaffs2,
- Unicode Strings Extraction: Extracts strings from unallocated space and unknown file types in many languages
- File Type Detection based on signatures and extension mismatch detection.
- Interesting Files Module will flag files and folders based on name and path.
- Android Support: Extracts data from SMS, call logs,



Screenshots









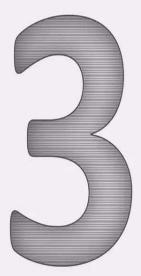


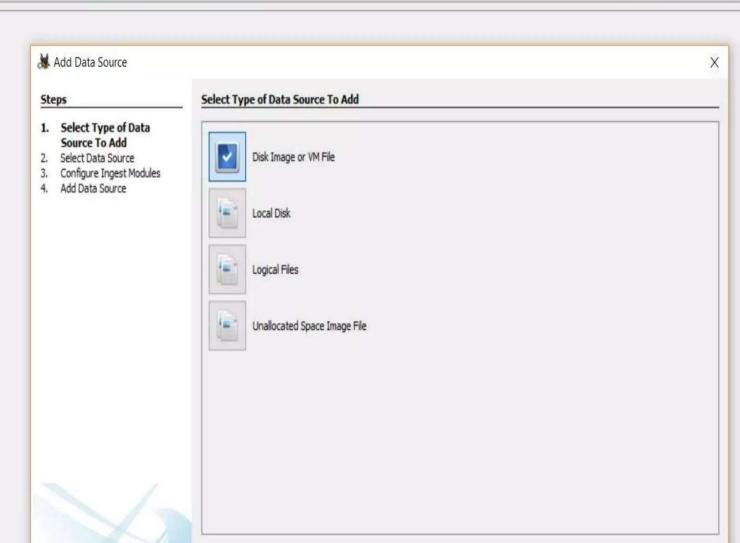
a Add Data Source 📠 Images/Videos 🌠 Communications 💆 Timeline 🕼 Generate Report 🏽 🔞 Close Case



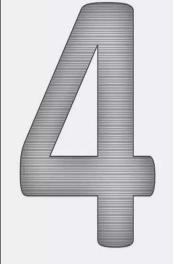


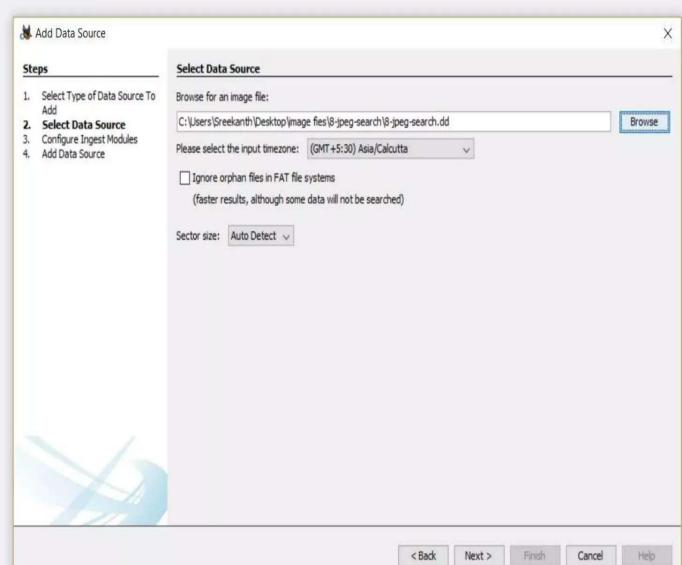


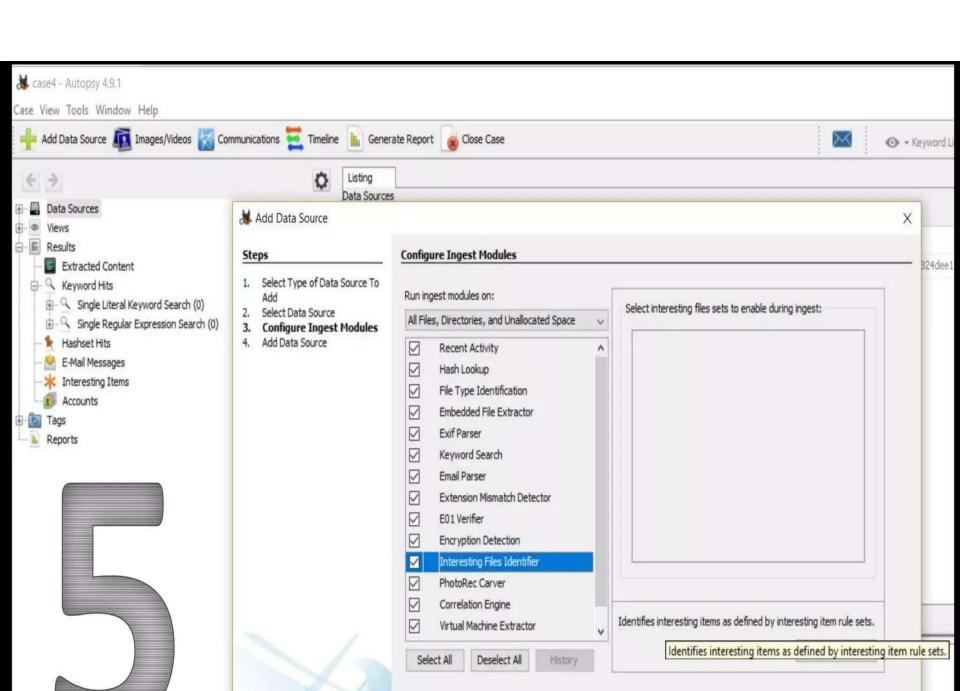




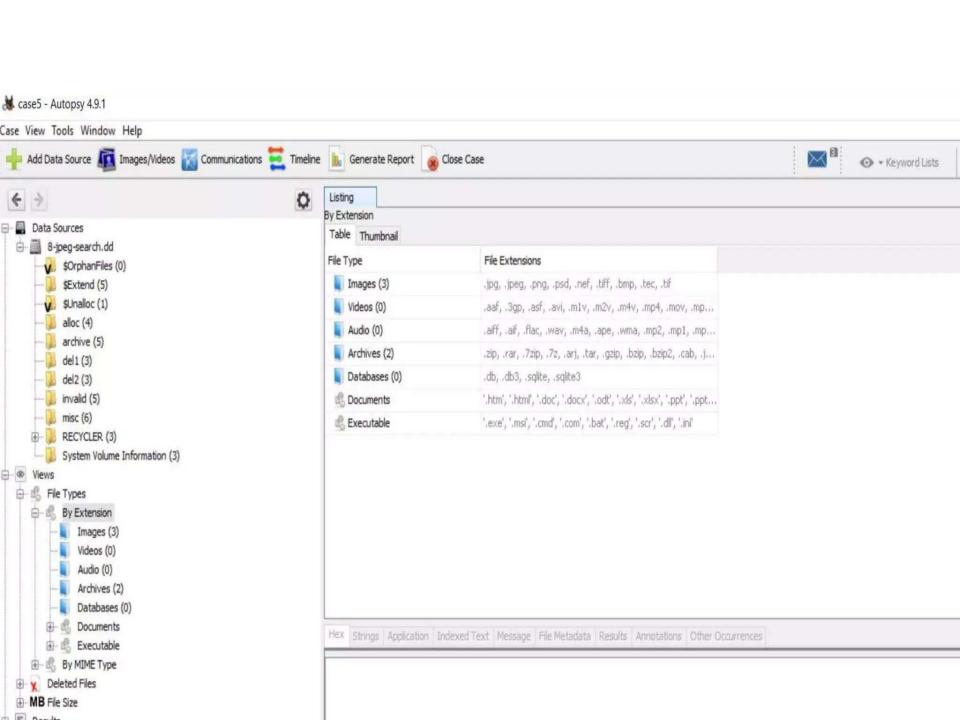








Results



Important Links - Hexeditor https://mh-nexus.de/en/hxd/

Assignments

- Download SuspectData.dd file from folder SuspectData and explore the same using autopsy.
- Ensure you name your folder in the following format example 001-M-DJD-S
- Inside that folder you must have the following folders
 - Autopsy Inside this your autopsy files should go
 - Docs maintain a txt file with the artifact name. That text file should maintain time stamps of all that you do.
 - Images Make sure you create a folder Exhibit001 and inside that the image that you received/ created using some imaging sft (FTK Imager)
 - Reports The reports that you generate should be in this folder
 - Temp Temporary data should be here
- Maintain all the records anything interesting that you find accordingly

References

- https://www.sleuthkit.org/autopsy/
- https://www.autopsy.com/
- https://en.wikipedia.org/wiki/Autopsy_(software)
- https://resources.infosecinstitute.com/category/computerforensics/introduction/free-open-source-tools/autopsy-forensics-platform-overview/#gref

