

EXPERIMENT--05

Aim:

To examine a disk image or folder with Autopsy, extract digital artifacts, and generate a forensic report.

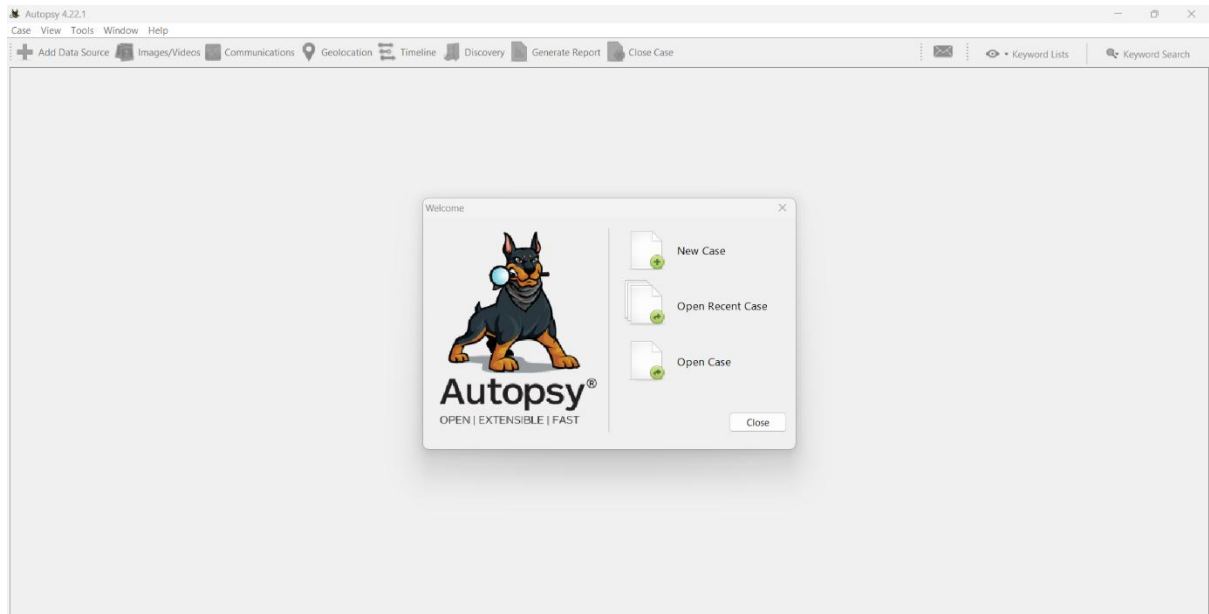
Tools Used:

- Autopsy (open-source DFIR suite)
- Windows/Linux system
- Evidence source: disk image (E01/RAW/VHD) or folder
-

Procedure:

1. Launch Autopsy → Create New Case (enter case name, base directory, investigator).
2. Add Data Source → choose Disk Image/VM file, Local Disk, or Logical Files, then browse to the evidence.
3. In Ingest Modules, select: File Type Identification, Embedded File Extractor, Recent Activity (web artifacts), EXIF Parser/Metadata, Keyword Search (add terms if needed), and Hash Lookup (optional).
4. Start Ingest and monitor progress/messages until processing completes.
5. Review results in the left tree: Recent Activity, Web History/Downloads, Documents/Images/Videos, Deleted Files, Installed Programs, etc.
6. Use Timeline and Filters to focus on relevant activity; preview items and Export artifacts if required.
7. Go to Tools → Generate Report → choose HTML/PDF/CSV, select result types, and save the report to the case folder.

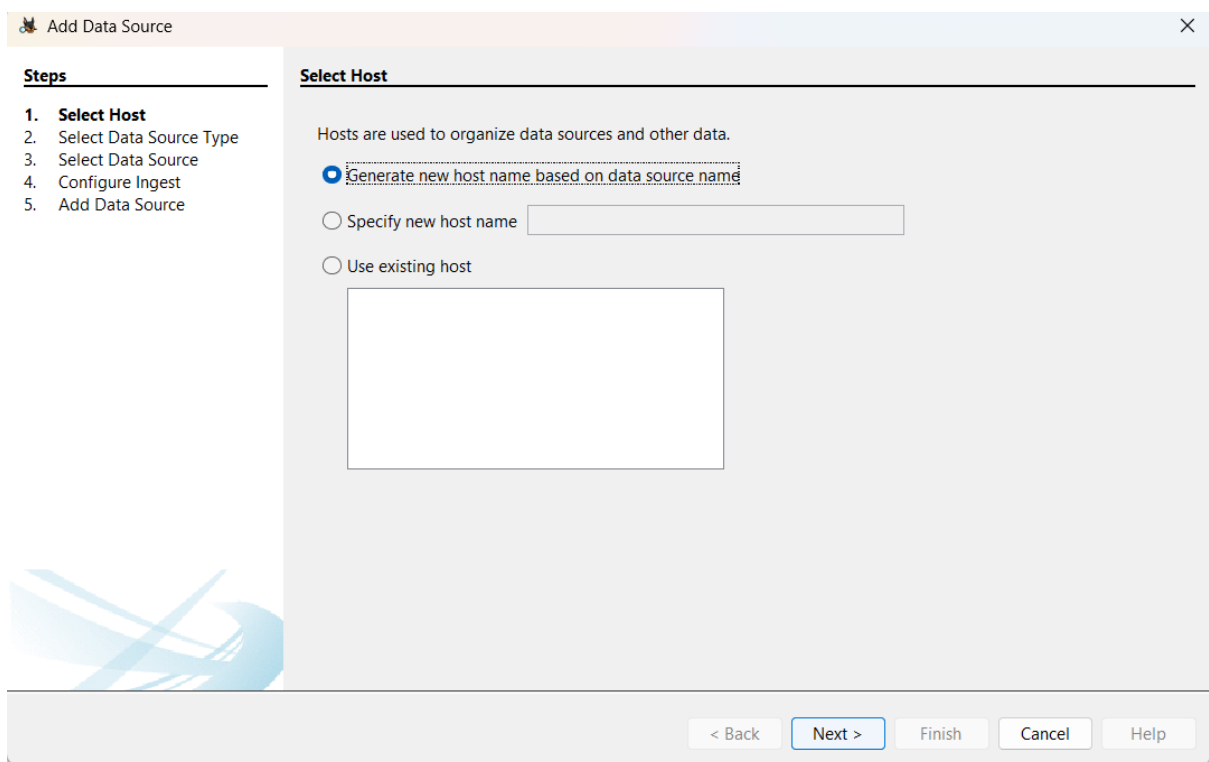
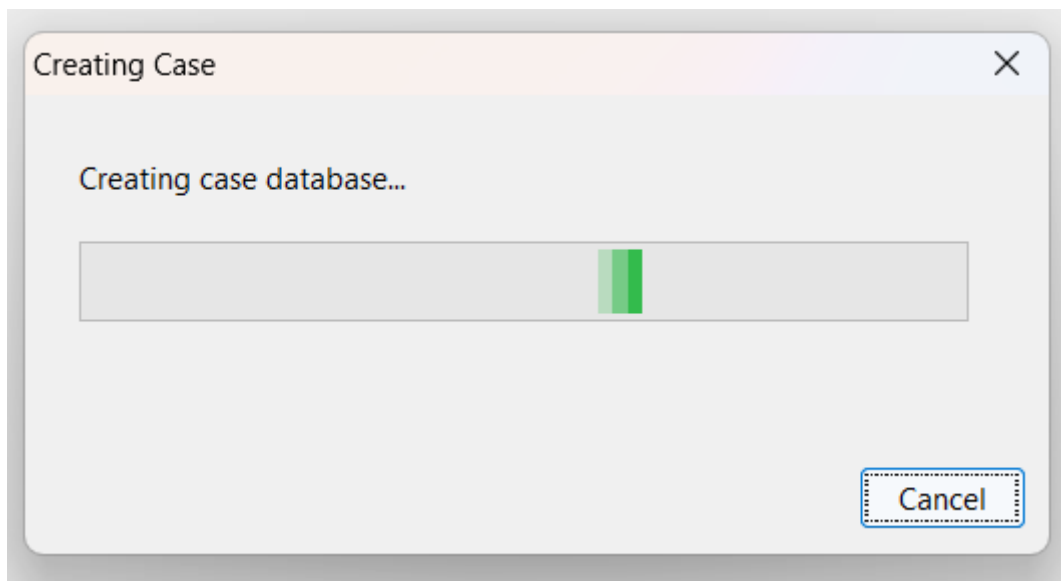
Outputs:

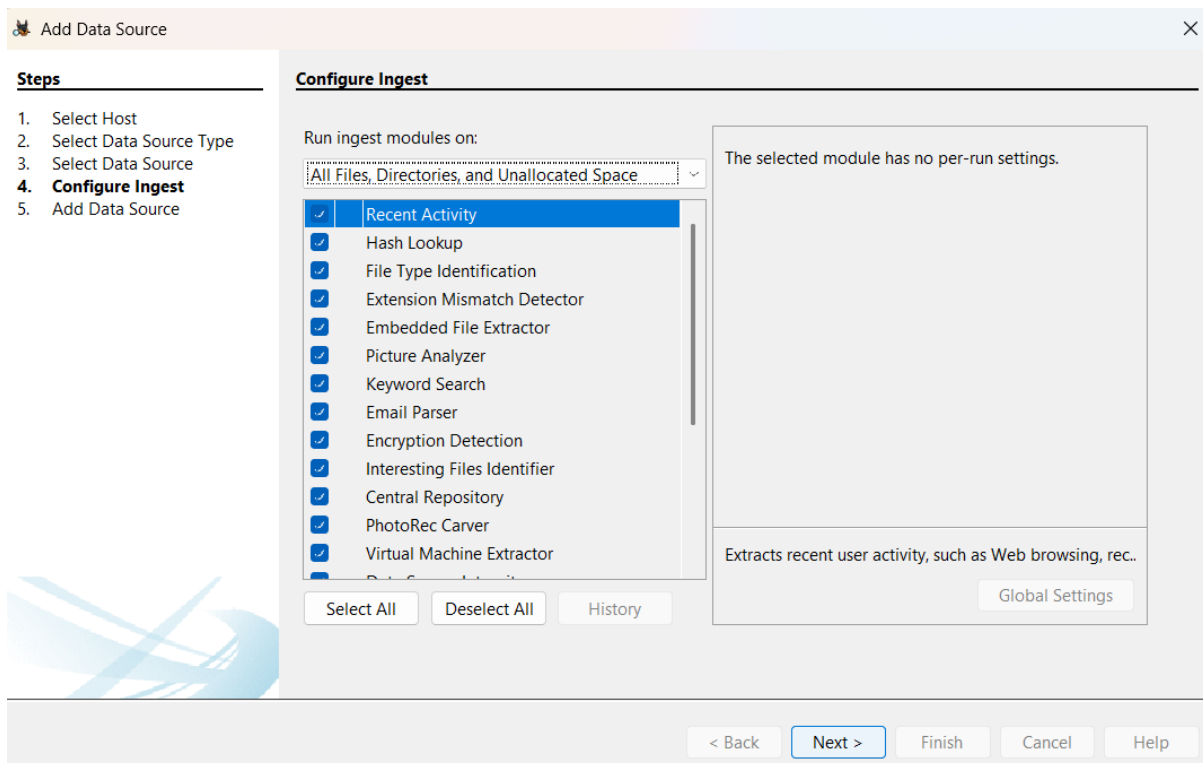
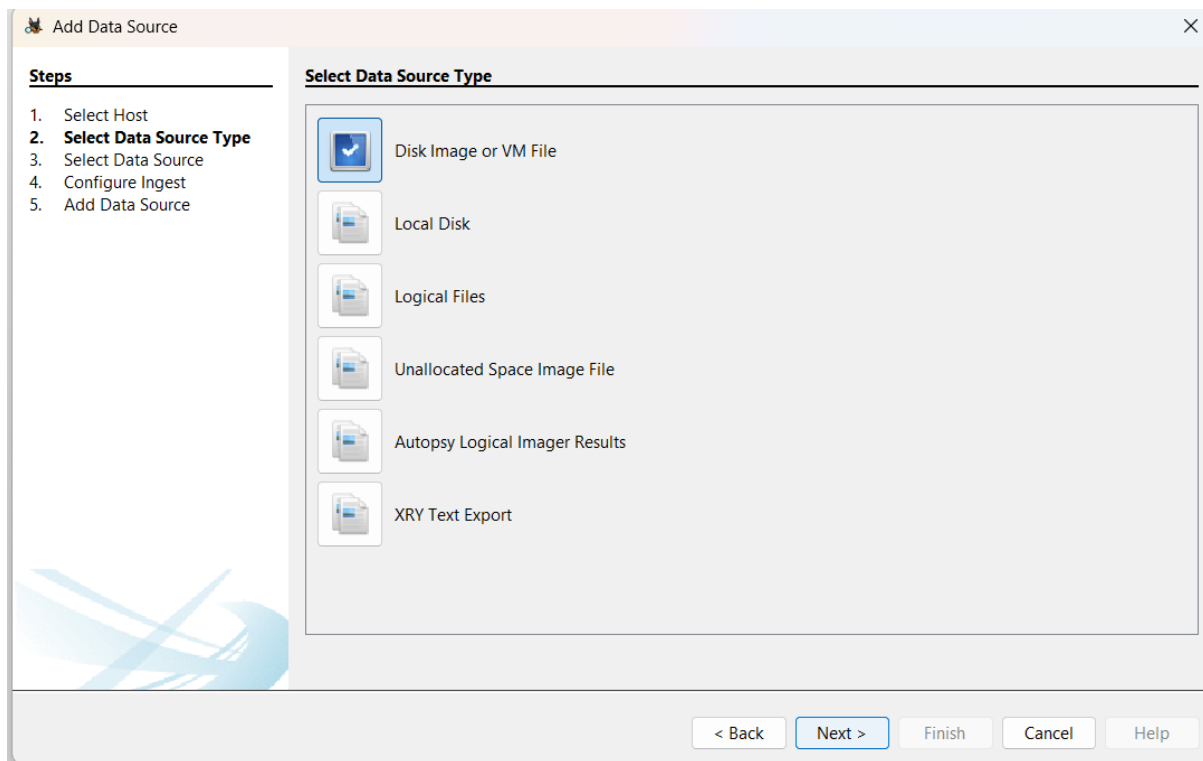


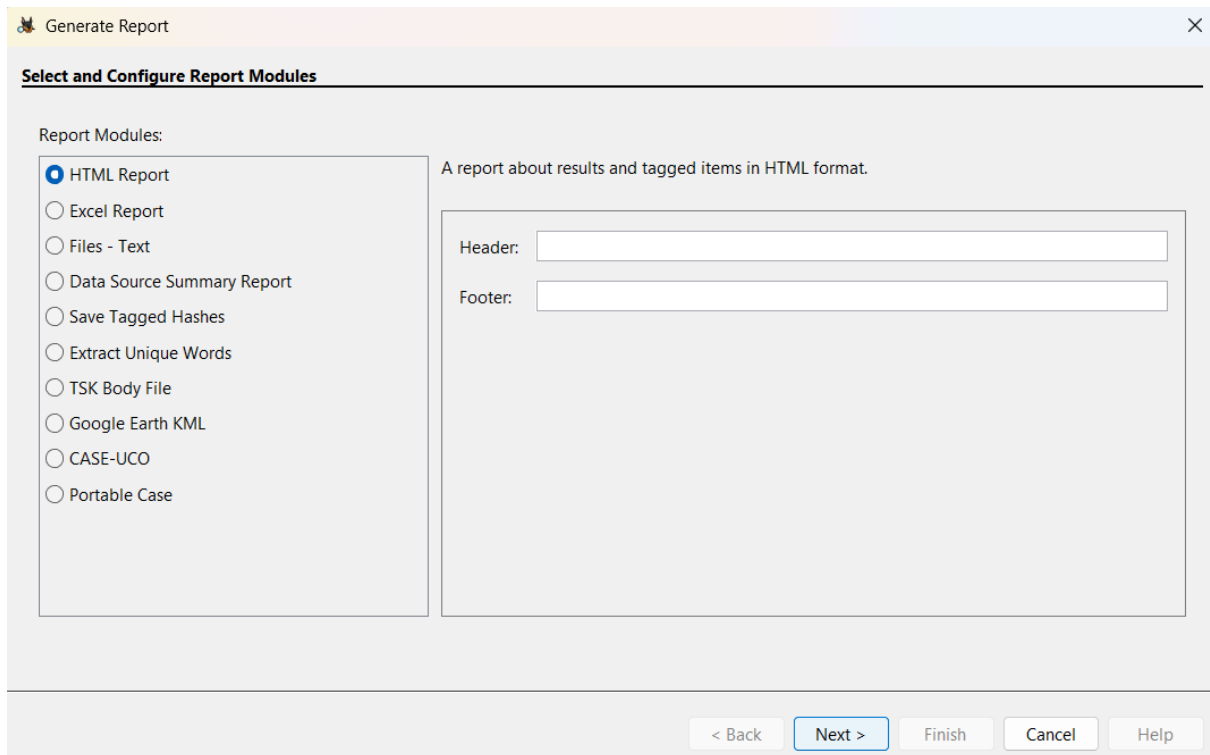
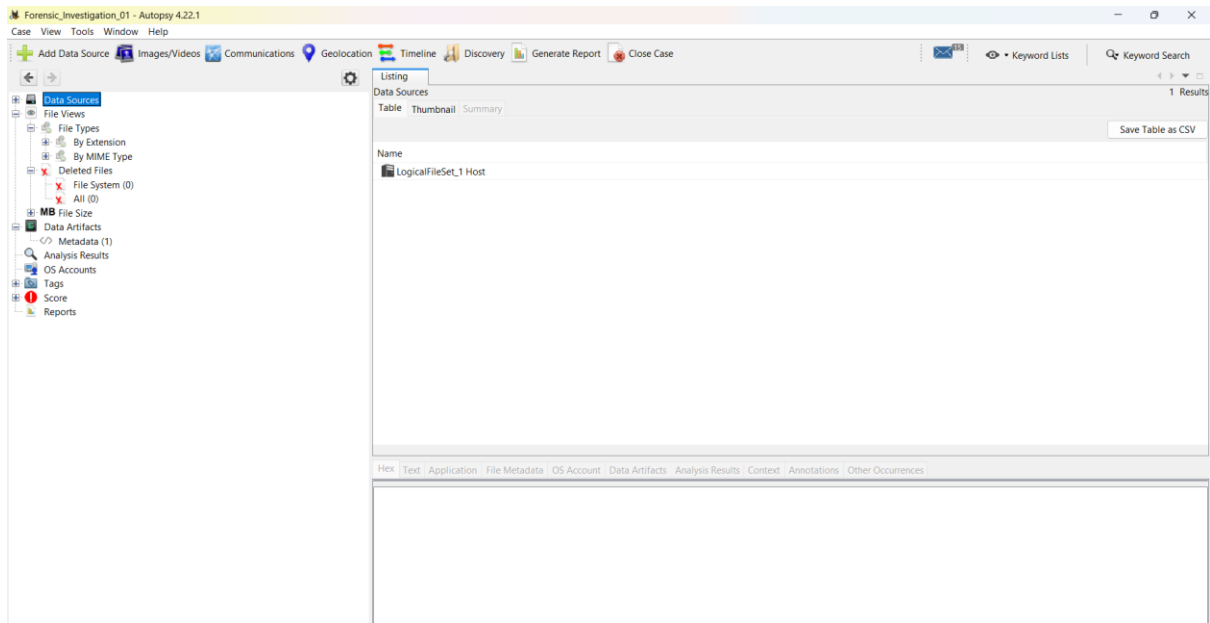
The screenshot shows the 'New Case Information' dialog box. The title bar reads 'New Case Information'. On the left side, there is a 'Steps' section with two items: '1. Case Information' (highlighted) and '2. Optional Information'. The main area is titled 'Case Information' and contains the following fields and controls:

- Case Name:** A text field containing 'Forensic_Investigation_01'.
- Base Directory:** A text field containing 'C:\Users\ashfa\Downloads\' with a 'Browse' button to its right.
- Case Type:** Two radio buttons: 'Single-User' (selected) and 'Multi-User'.
- Case data will be stored in the following directory:** A text field containing 'C:\Users\ashfa\Downloads\Forensic_Investigation_01'.

At the bottom of the dialog box, there are five buttons: '< Back', 'Next >' (highlighted with a blue border), 'Finish', 'Cancel', and 'Help'.







Generate Report

Configure Report

Select which data to report on:

☒ All Results

☐ All Tagged Results

☐ Specific Tagged Results

Select All

Deselect All

Choose Result Types...

< Back

Next >

Finish

Cancel

Help

Report Navigation

Autopsy Forensic Report

HTML Report Generated on 2025-08-08 17:12:49

Case: Forensic_Investigation_01
Number of data sources in case: 1

Image Information:

LogbookFile.txt

Software Information:

Autopsy Version:	4.22.1
Android Analyzer Module:	4.22.1
Android Analyzer (aLEAPP) Module:	4.22.1
Central Repository Module:	4.22.1
DJI Drone Analyzer Module:	4.22.1
Data Source Integrity Module:	4.22.1
Email Parser Module:	4.22.1
Embedded File Extractor Module:	4.22.1
Encryption Detection Module:	4.22.1
Extension Mismatch Detector Module:	4.22.1
File Type Identification Module:	4.22.1
GPX Parser Module:	1.2
Hash Lookup Module:	4.22.1
Interesting Files Identifier Module:	4.22.1
Keyword Search Module:	4.22.1
PhotoRec Carver Module:	7.0
Picture Analyzer Module:	4.22.1
Recent Activity Module:	4.22.1

Result:

Autopsy successfully parsed the evidence, recovered key artifacts (files, metadata, web/browser activity, keyword hits), and produced a structured forensic report.