

Title: Use Autopsy to recover file from the given data source. Present your details accordingly

Objective:

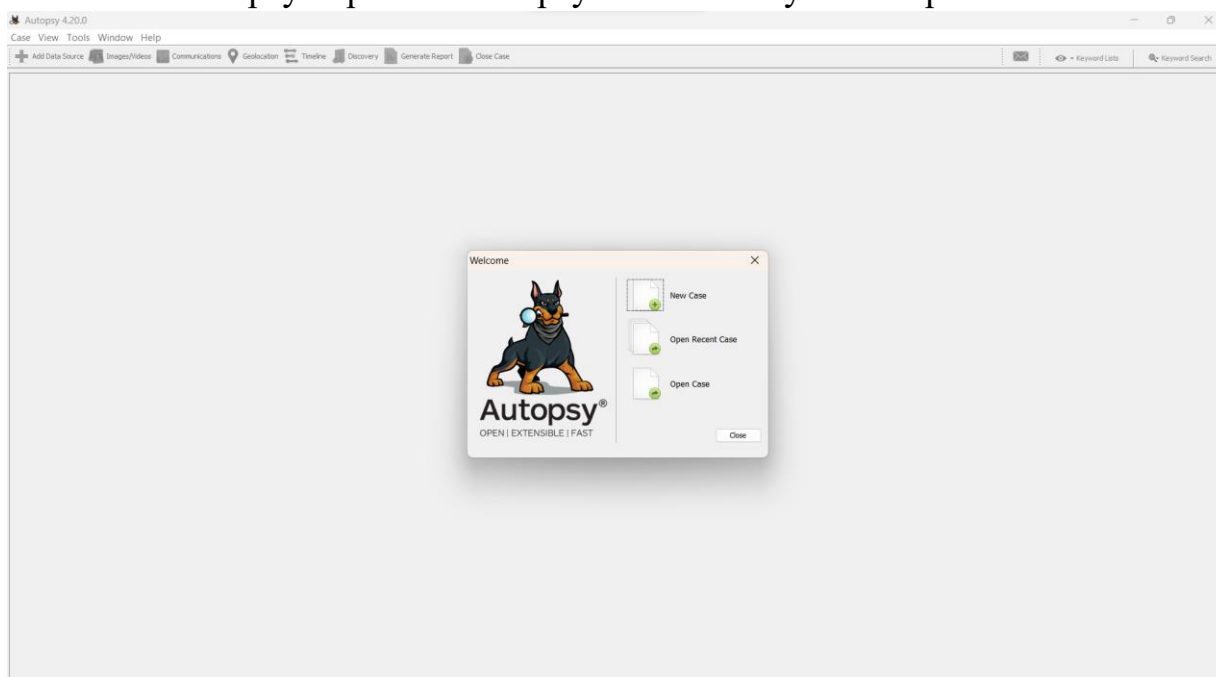
The objective of this experiment is to utilize Autopsy, a digital forensics tool, to recover a file from a specific data source.

Requirements:

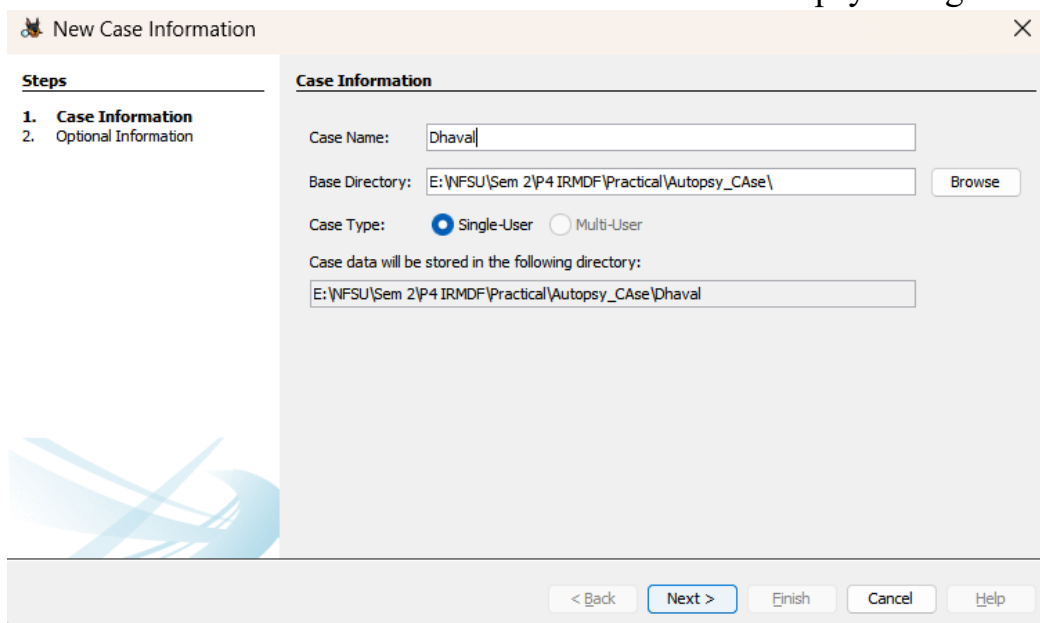
- Autopsy software installed
- Data source containing the target file for recovery (e.g., a storage device, disk image, or forensic image)

Procedure/Experiment Steps:

1. Launch Autopsy: Open the Autopsy software on your computer.



2. Create a New Case: Create a new case within Autopsy to organize your investigation.



New Case Information

Steps

1. Case Information

2. Optional Information

Optional Information

Case

Number: 01

Examiner

Name: Dhaval

Phone: 70961556

Email: dhaval.patel70961@gmail.com

Notes: Test

Organization

Organization analysis is being done for: NFSU

Manage Organizations

< Back

Next >

Finish

Cancel

Help

3. Add Data Source: Import the given data source, which contains the target file, into the Autopsy case. This can be done by selecting the "Add Image" or "Add Device" option, depending on the nature of the data source.

Add Data Source

Steps

1. Select Host

2. Select Data Source Type

3. Select Data Source

4. Configure Ingest

5. Add Data Source

Select Data Source Type

☒

Disk Image or VM File

☐

Local Disk

☐

Logical Files

☐

Unallocated Space Image File

☐

Autopsy Logical Imager Results

☐

XRY Text Export

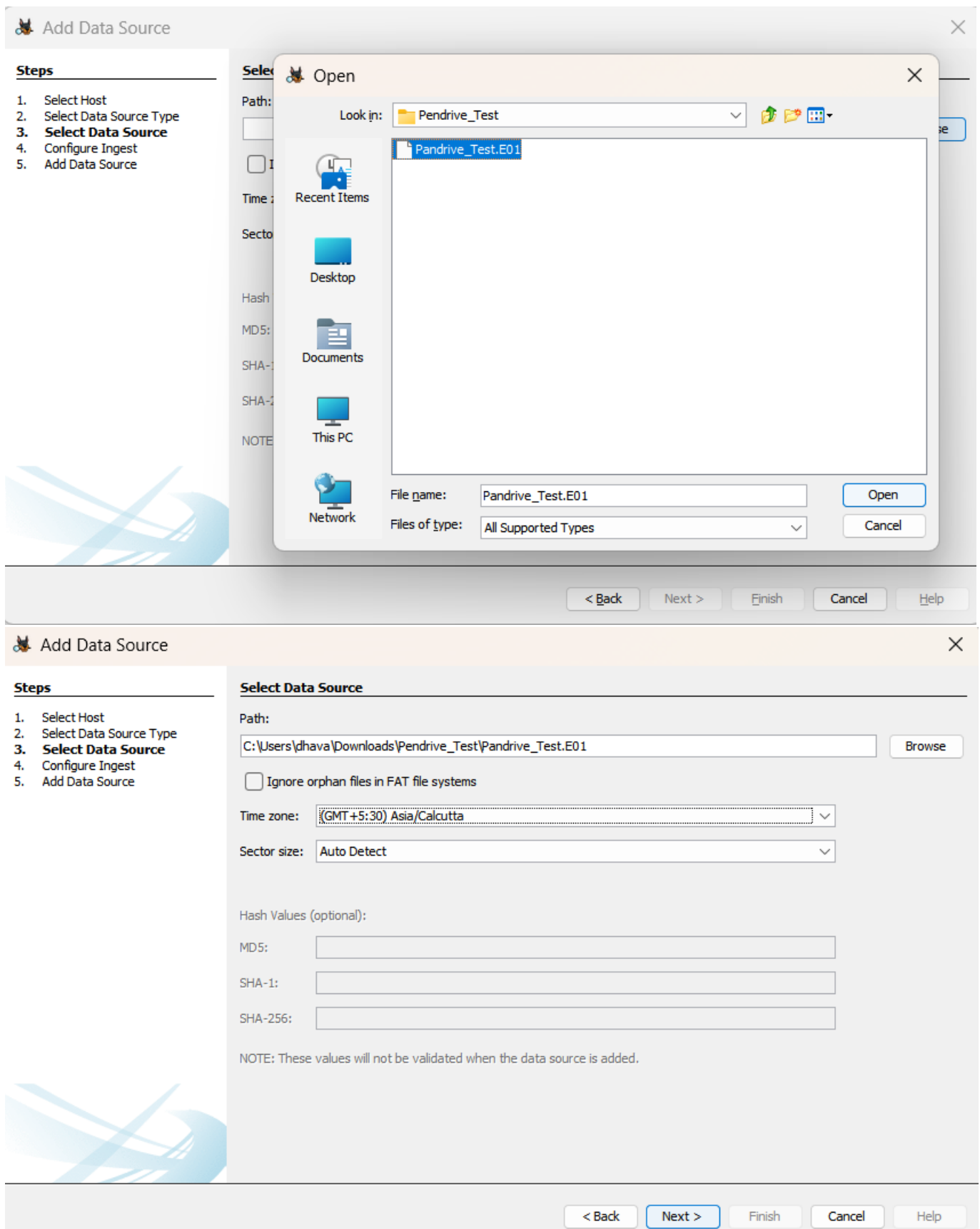
< Back

Next >

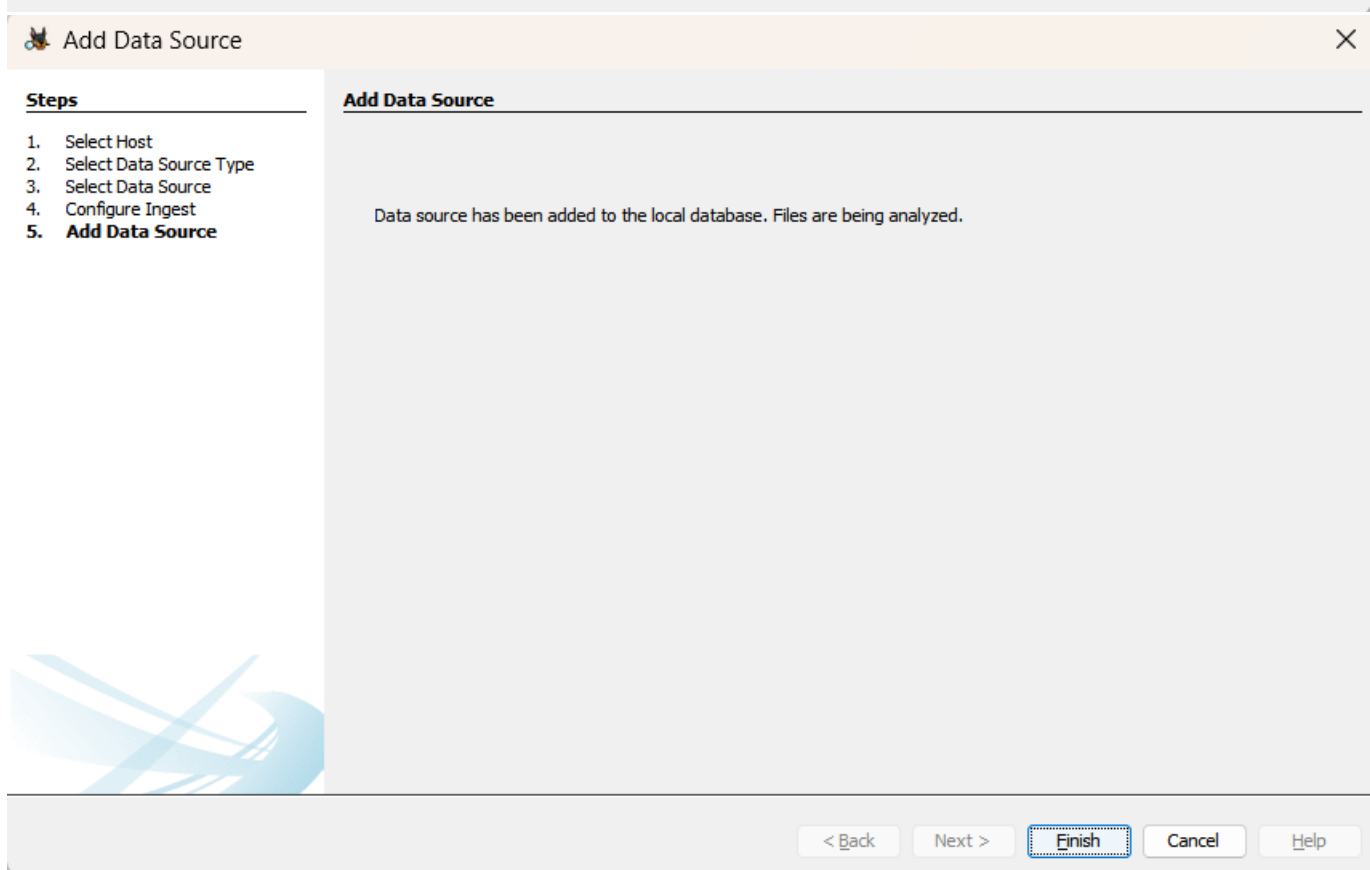
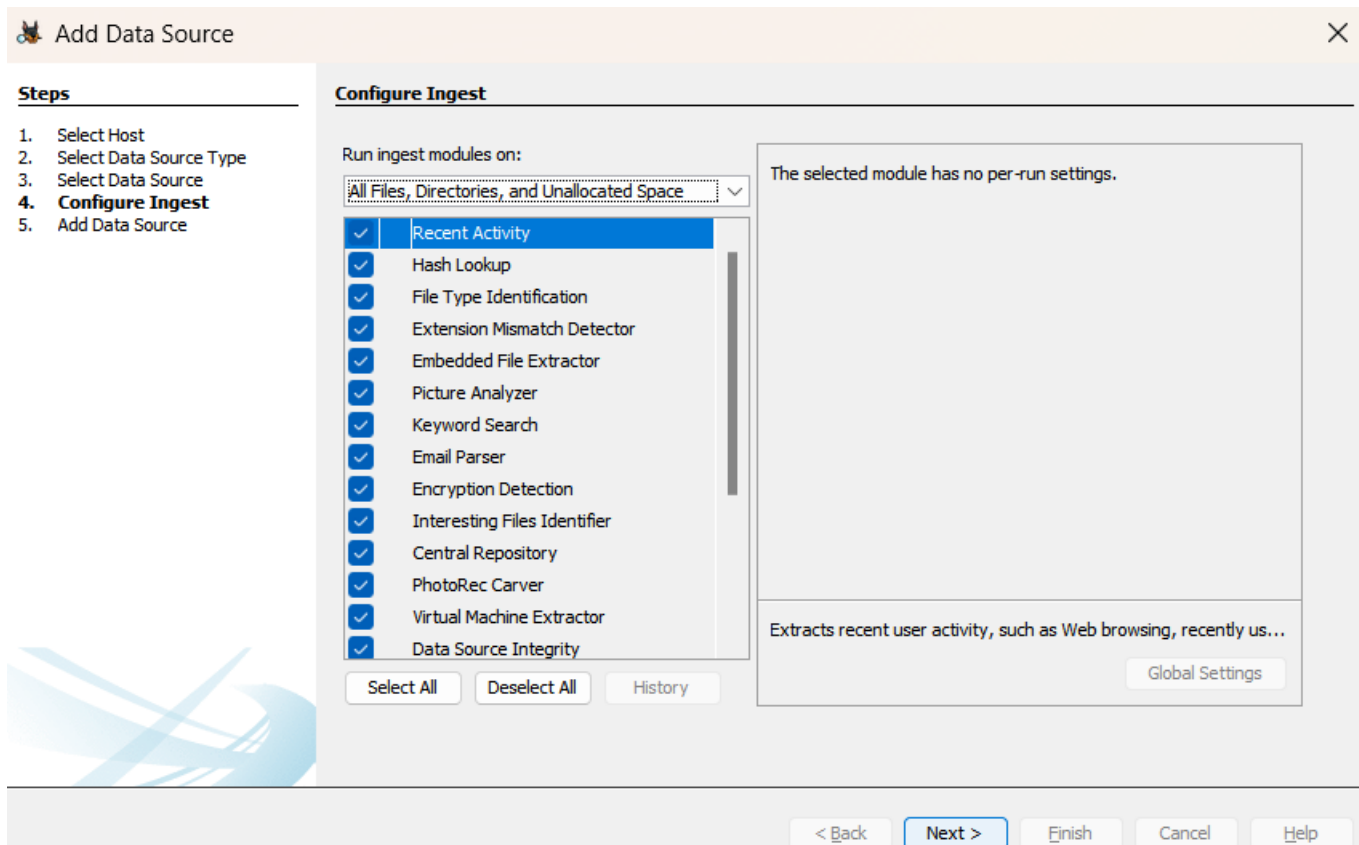
Finish

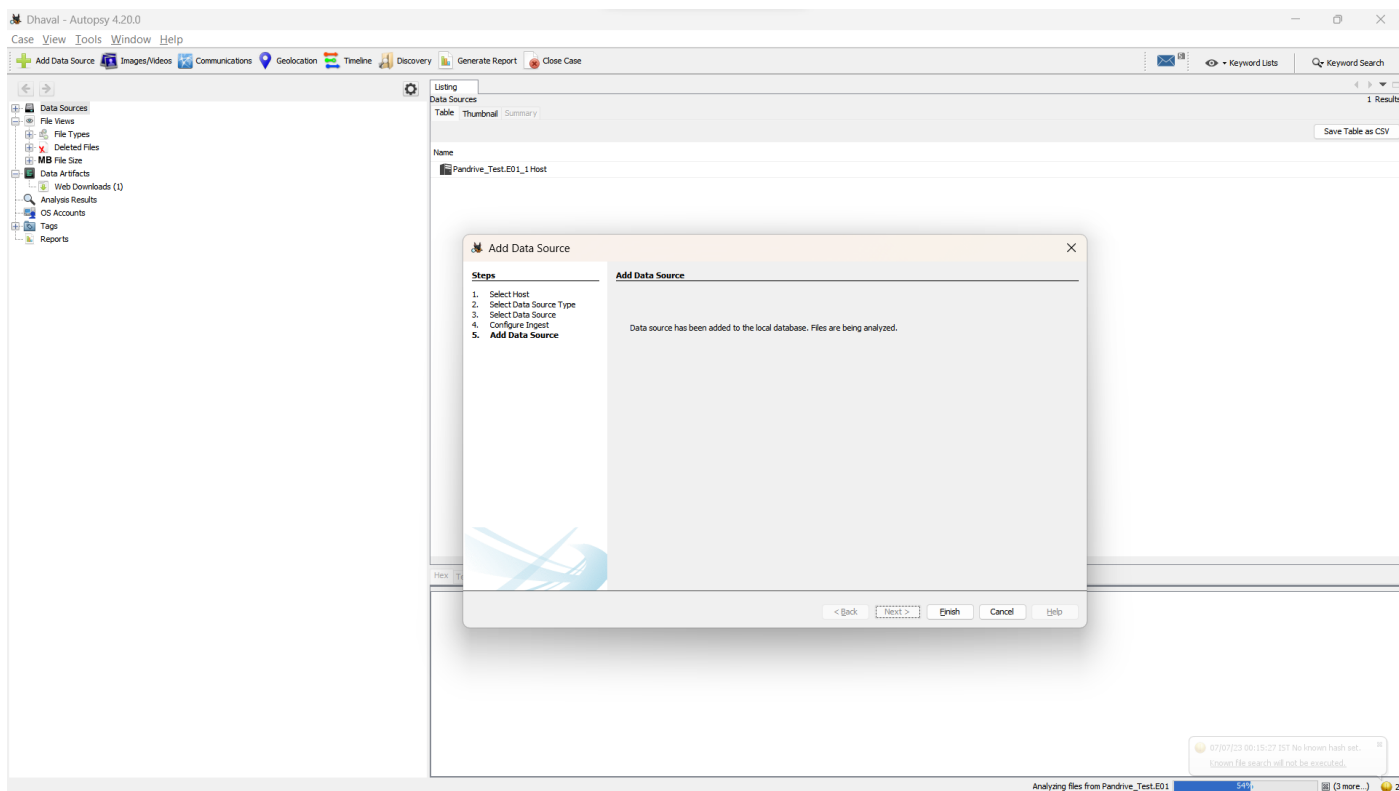
Cancel

Help

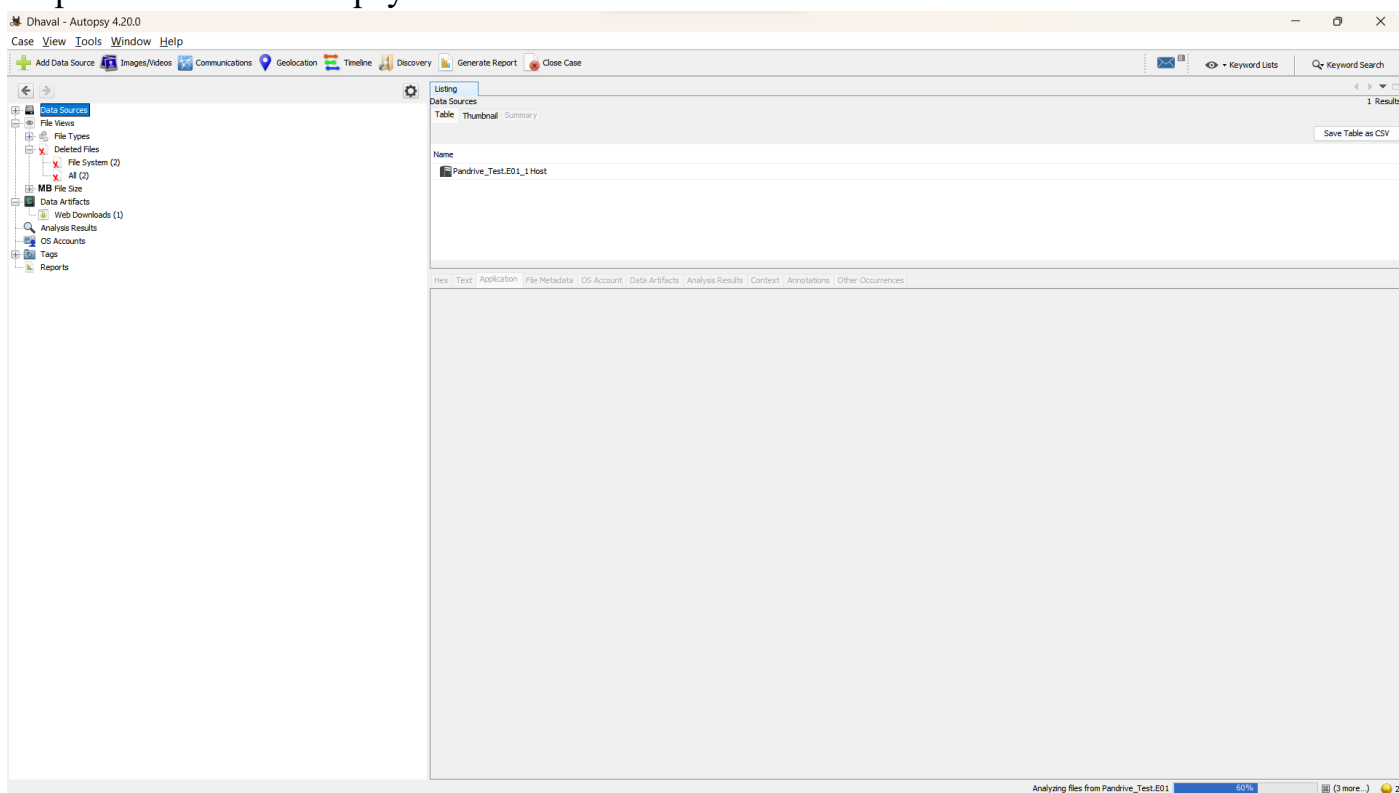


4. **Configure Data Source:** Provide necessary information about the data source, such as the image file or device details, during the configuration process.





5. Start Analysis: Once the data source is added and configured, initiate the analysis process within Autopsy.



6. Search for File: Utilize Autopsy's search functionality to locate the target file within the data source. You can specify the file name or use file metadata to narrow down the search results.

Dhaval - Autopsy 4.20.0

Case View Tools Window Help

+ Add Data Source Images/Videos Communications Geolocation Timeline Discovery

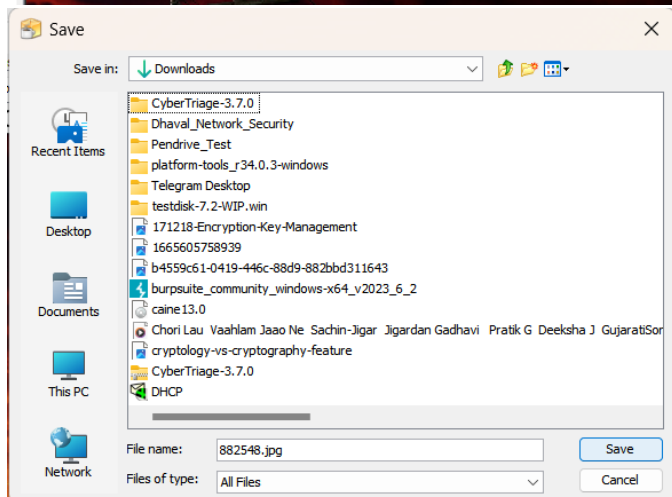
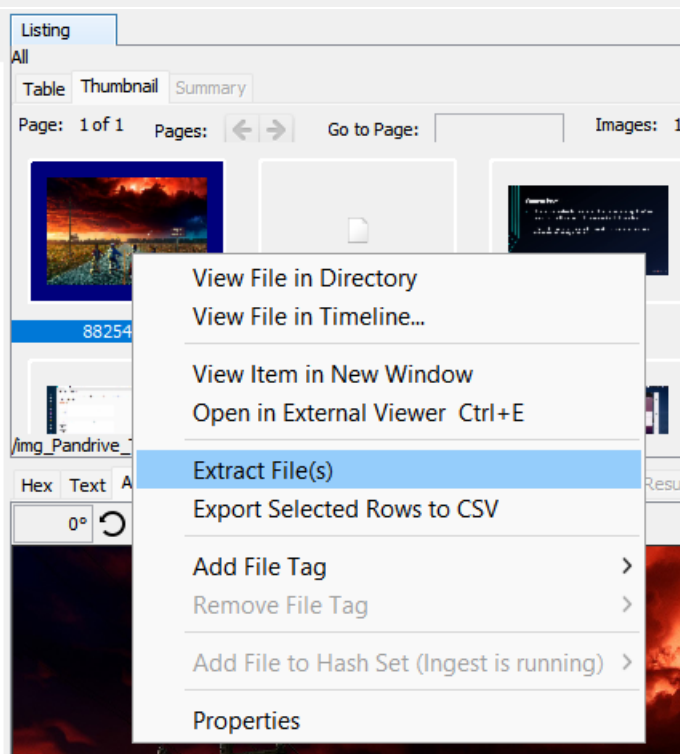
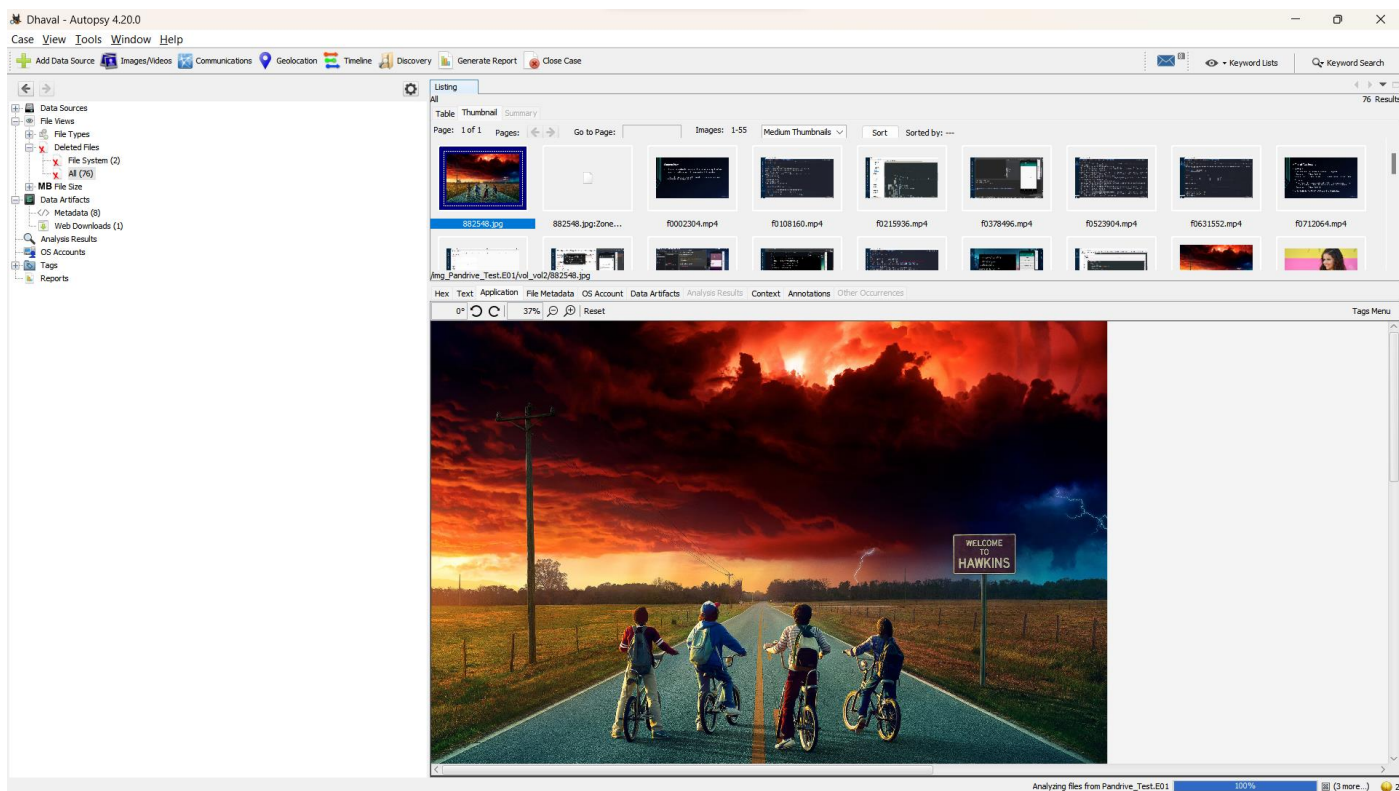
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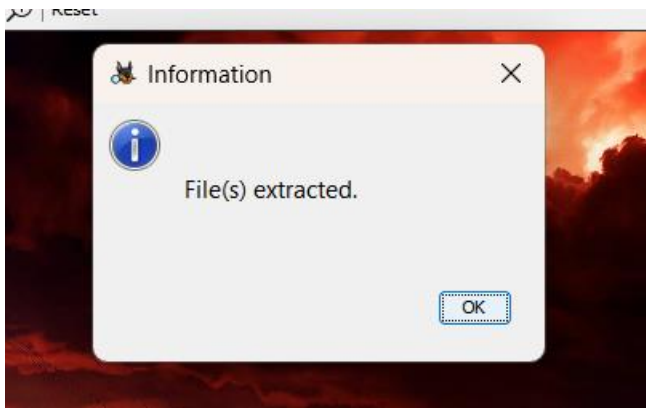
Data Sources
File Views
File Types
Deleted Files
File System (2)
All (76)
MB File Size
Data Artifacts
Web Downloads (1)
Analysis Results
OS Accounts
Tags
Reports

Listing
All 76 Results
Table Thumbnail Summary
Save Table as CSV

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known	Location
882548.jpg				2023-04-12 15:40:39 IST	2023-04-12 15:50:41 IST	2023-07-06 20:41:29 IST	2023-07-06 20:41:29 IST	1875269	Unallocated	Unallocated	unknown	/img_Pandriv
882548.jpg:Zone.Identifier				2023-04-12 15:40:39 IST	2023-04-12 15:50:41 IST	2023-07-06 20:41:29 IST	2023-07-06 20:41:29 IST	50	Unallocated	Unallocated	unknown	/img_Pandriv
f002304.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	54185764	Unallocated	Unallocated	unknown	/img_Pandriv
f0108160.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	55175430	Unallocated	Unallocated	unknown	/img_Pandriv
f0215936.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	83205682	Unallocated	Unallocated	unknown	/img_Pandriv
f0378496.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	74447831	Unallocated	Unallocated	unknown	/img_Pandriv
f0523904.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	55114839	Unallocated	Unallocated	unknown	/img_Pandriv
f0631552.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	41164844	Unallocated	Unallocated	unknown	/img_Pandriv
f0712000.fat				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	32768	Unallocated	Unallocated	unknown	/img_Pandriv
f0712064.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	29079640	Unallocated	Unallocated	unknown	/img_Pandriv
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f0829568.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	32758229	Unallocated	Unallocated	unknown	/img_Pandriv
f0893568.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	46701562	Unallocated	Unallocated	unknown	/img_Pandriv
f0984832.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	39634331	Unallocated	Unallocated	unknown	/img_Pandriv
f1062272.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	61047629	Unallocated	Unallocated	unknown	/img_Pandriv
f1181568.mp4				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	43978714	Unallocated	Unallocated	unknown	/img_Pandriv
f1267520.fat				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	32768	Unallocated	Unallocated	unknown	/img_Pandriv
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f0000000.jpg				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	1875269	Unallocated	Unallocated	unknown	/img_Pandriv
f0005688.txt				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	204	Unallocated	Unallocated	unknown	/img_Pandriv
f0017080.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	201394	Unallocated	Unallocated	unknown	/img_Pandriv
f0017528.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	789176	Unallocated	Unallocated	unknown	/img_Pandriv
f0019128.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	128519	Unallocated	Unallocated	unknown	/img_Pandriv
f0019384_Microsoft_Word_Document1.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	2036374	Unallocated	Unallocated	unknown	/img_Pandriv
f0023416.jpg				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	467453	Unallocated	Unallocated	unknown	/img_Pandriv
f0032184.fat				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	4096	Unallocated	Unallocated	unknown	/img_Pandriv
f0032248.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	425992	Unallocated	Unallocated	unknown	/img_Pandriv
f0033144.pdf				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	482307	Unallocated	Unallocated	unknown	/img_Pandriv
f0034104_A_Case_Study_on_Cyber_Crime_In_India_K				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	465252	Unallocated	Unallocated	unknown	/img_Pandriv
f0035064.fat				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	4096	Unallocated	Unallocated	unknown	/img_Pandriv
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f0041912.fat				0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	4096	Unallocated	Unallocated	unknown	/img_Pandriv

7. Recover File: Once the target file is located, select the file and choose the recovery option provided by Autopsy. Follow the prompts to specify the destination for the recovered file.





8. **Verify Recovery:** After the recovery process is complete, verify the recovered file's integrity and accessibility to ensure a successful recovery.
9. **Document Findings:** Record the details of the recovery process, including the file name, location, and any additional observations or notes.

Result:

Using Autopsy, we successfully recovered the target file from the given data source. After adding and configuring the data source within the Autopsy case, we initiated the analysis and performed a search to locate the file. The file was successfully recovered, and its integrity and accessibility were verified. The details of the recovery, including the file name, location, and any relevant observations, were documented for further analysis.

Conclusion:

Autopsy proved to be an effective digital forensics tool for file recovery from the given data source. Its comprehensive search capabilities, combined with the recovery functionality, allowed us to successfully locate and recover the target file. Autopsy can be a valuable asset in forensic investigations, data recovery processes, and digital evidence analysis.

Future Scope:

1. **Advanced file carving techniques:** Explore Autopsy's advanced file carving capabilities to recover files even in fragmented or damaged states.
2. **Timeline analysis:** Utilize Autopsy's timeline feature to establish a chronological order of events related to the recovered file and other artifacts.
3. **Metadata extraction and analysis:** Extract and analyze file metadata using Autopsy to gain further insights into the recovered file's origin, timestamps, and associated attributes.
4. **Hash analysis:** Perform hash analysis on the recovered file to determine its integrity and check against known hash databases for potential matches.
5. **Integration with other forensic tools:** Explore integrating Autopsy with other digital forensics tools for a more comprehensive analysis and cross-validation of findings.