Android Forensics Project – Autopsy Analysis
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Objective:
To investigate a provided Android image for digital evidence including SMS, call logs, contacts app usage, browser history, files, and deleted content.
Tools Used:
- Autopsy (Forensic Suite)
- Android forensic image (.tar.gz and data)
Methodology:

The investigation followed standard digital forensics procedures to ensure the integrity and admissibility of evidence:

- 1. Preservation
 - The original Android forensic image (`.tar.gz`) was preserved in its raw form.
 - Extraction was done without altering timestamps or metadata.

2. Examination

- The image was ingested into Autopsy using appropriate ingest modules.
- Targeted searches were conducted for SMS, call logs, contacts, app usage, browser history, and deleted data.
- 3. Analysis
- SQLite databases (e.g., contacts2.db, mmssms.db) were parsed by Autopsy's Android Analyzer.
 - Image and document files were manually reviewed.
 - Deleted files were located using file carving and Autopsy recovery modules.
- 4. Documentation

- Screenshots were taken at each critical point to document findings.
- Notes were maintained regarding timestamps, user activity, and app behavior.

5. Reporting

- A structured report was compiled including tools, methodology, findings, and professional recommendations.

Steps Taken:

- 1. Extracted the forensic image:
 - File provided: `android data.tar.gz`
 - Extracted using:

tar -xvzf android_data.tar.gz

- 2. Opened Autopsy and created a new case:
 - Case name: DSA CASE
 - Examiner: Adenika Caleb Ayoola
 - Case type: Local Disk Image
- 3. Ingested the extracted image:
 - Pointed Autopsy to the `.image` or extracted folder
 - Enabled ingest modules:
 - Keyword Search
 - Extract Files
 - Android Analyzer
 - Web History Analyzer
- 4. Evidence Extraction:
 - SMS & Call Logs: Located using Android Analyzer module
 - Contacts: Found in `contacts2.db`
 - Browser History: Retrieved from Chrome and default browser SQLite DBs

	lentified popular apps and recent activity
- Media Files: !	mages, videos, downloads were extracted
- Deleted Files	Recovered through Autopsy file recovery module
5. Screenshots T	aken:
- Autopsy dash	board
- Extracted SM	S, call logs, contacts
- File analysis រុ	anel (images, deleted files)
- Browser histo	ry view
6. Report Drafte	d:
- Findings sum	marized
- Screenshots i	nclude
Conclusion:	
 The Android ima	ge analysis successfully uncovered mock data from apps, system logs, and use
	port provides insight into digital forensics methodology and tool usage.
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