

# MHA

## AIM:

To extract mobile device data using the MHA tool and to analyze extracted evidence such as contacts, messages, and logs in Autopsy.

## DESCRIPTION OF THE TOOL:

Mobile Harvesting Application (MHA) is used to perform logical extraction of mobile data. It retrieves contacts, SMS, call logs, and stored media from smartphones. In this experiment, the extracted data was analyzed using Autopsy to identify digital traces. MHA helps forensic investigators gather user activity without modifying the device. The experiment demonstrates how mobile forensics tools assist in real-world investigations. It emphasizes evidence preservation, integrity, and proper documentation of mobile data.

## STEPS INVOLVED:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\deepa> cd $env:USERPROFILE\Documents
PS C:\Users\deepa\Documents> mkdir RecoverReport

Directory: C:\Users\deepa\Documents

Mode                LastWriteTime         Length Name
----                -
d-----         02-09-2025    00:27             RecoverReport

PS C:\Users\deepa\Documents> cd RecoverReport
PS C:\Users\deepa\Documents\RecoverReport>
```

```
File Edit View

# recover_report.py
# Author: Atchaya
# Purpose: Generate a simple file listing with sizes (for report output)

import os
import datetime

# Change this path to the folder you want to scan
root_folder = r"C:\Users\Public"

output_file = "report_output.txt"

with open(output_file, "w", encoding="utf-8") as f:
    f.write("Recover Report\n")
    f.write(f"Prepared by: Atchaya\n")
    f.write(f>Date: {datetime.datetime.now()}\n")
    f.write("-" * 50 + "\n\n")

    for dirpath, dirnames, filenames in os.walk(root_folder):
        for file in filenames:
            filepath = os.path.join(dirpath, file)
            try:
                size = os.path.getsize(filepath)
                f.write(f"{filepath}\t{size} bytes\n")
            except Exception as e:
                f.write(f"{filepath}\tERROR: {e}\n")

print(f"Report saved as {output_file}")
```

## RESULT:

```
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Recover Report
Prepared by: Atchaya
Date: 2025-09-02 00:30:34.064917
-----
C:\Users\Public\desktop.ini 174 bytes
C:\Users\Public\AccountPictures\desktop.ini 196 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image1000.jpg 27438 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image192.jpg 2518 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image200.jpg 2720 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image240.jpg 3276 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image32.jpg 859 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image40.jpg 917 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image424.jpg 6417 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image448.jpg 6890 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image48.jpg 1009 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image64.jpg 1307 bytes
C:\Users\Public\AccountPictures\S-1-5-21-2123064929-1834198252-3747091278-1002\{8193E70E-9747-4238-BAA6-59F587286073}-Image96.jpg 1430 bytes
C:\Users\Public\Desktop\Autopsy 4.22.1.lnk 1965 bytes
C:\Users\Public\Desktop\AWS Secure Browser.lnk 2286 bytes
C:\Users\Public\Desktop\desktop.ini 174 bytes
C:\Users\Public\Desktop\Google Chrome.lnk 2206 bytes
C:\Users\Public\Desktop\K7TotalSecurity.lnk 2215 bytes
C:\Users\Public\Desktop\LibreOffice 24.8.lnk 1181 bytes
C:\Users\Public\Desktop\MathLAB R2023a.lnk 1364 bytes
C:\Users\Public\Desktop\Microsoft Edge.lnk 2276 bytes
C:\Users\Public\Desktop\PyCharm 2025.2.lnk 1130 bytes
C:\Users\Public\Desktop\StartML.lnk 1850 bytes
C:\Users\Public\Desktop\Tina Demo (64 bit).lnk 1912 bytes
C:\Users\Public\Documents\desktop.ini 278 bytes
C:\Users\Public\Downloads\desktop.ini 174 bytes
C:\Users\Public\Libraries\desktop.ini 175 bytes
C:\Users\Public\Libraries\RecordedTV.library.ms 960 bytes
C:\Users\Public\Music\desktop.ini 300 bytes
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