

Device Forensics

January 2020

Assignment 1

Learning Outcomes Covered by this Assignment

1. Collect digital evidence from a mobile device.
2. Analyse digital evidence from a mobile device.
3. Reconstruct device usage patterns.

In this assignment you must acquire and analyse an Android mobile device. You are required to install 3 apps and generate some data on the device. You must then make a forensic copy of the device and examine the artefacts left by these apps. You must write up each under the headings

General phone data

App Information

Files and Directories

Important Database Tables

It is recommended that for this assignment you use an emulated android device. Please confirm your choice of device with John Sheppard before you begin.

The apps to be installed are (1) TikTok, (2) Sensor App 1 (3) Sensor App 2 (A more advanced app will score better). Please confirm your selection with John Sheppard before you begin.

You will be required to submit a softcopy of your report by Wednesday 6th of March. You will also be required to make an 8 minute presentation on your work in class that week. Your report should take the following format:

- Introduction (including device type chosen, apps chosen etc)
- Preliminary Analysis (including investigation of apps present, associated accounts etc)

- Analysis of 3 apps and data found - App Information, Files and Directories, Important Database Tables
- Conclusion