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4th International Conference on Cyber Security, Cyber Warfare, and Digital Forensics, CyberSec 2015; Jakarta; Indonesia; 29 October 2015 through 31 October 2015; Category numberE5671; Code 122365

Mobile Device Forensics: Extracting and Analysing Data from an Android-Based Smartphone (Conference Paper)

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Abstract

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The advancement of wireless technology and mobile devices have change our life tremendously. The number of smartphone users increases and majority people rely on it for communication and business related matters. While smartphones are used for positive aspects of our life, it is also used by criminals as medium for their modus operandi. Therefore, there are potential information stored in smartphones that can be used for digital evidence as part of an investigation. However, investigators may face challenges in extracting crucial information and the vital data stored in the smartphone. In this paper, we share on how we studied and experimented several methods on how data in smartphones can be extracted and analysed using the Sleuth Kit Autopsy. The aim of this work is to discover methods of extracting and analysing data from an Android based smartphone. We managed to obtain email, contact, messages, calendar, and images data that can be of used as digital evidence in an investigation. © 2015 IEEE.

Author keywords

Android Digital forensics Smartphone

Indexed keywords

Engineering controlled terms: Computer crime Electronic crime countermeasures Mobile devices Signal encoding
Smartphones Wireless telecommunication systems

Android

Digital evidence

Digital forensic

Modus operandi

Wireless technologies

Engineering main heading: Android (operating system)

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