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14 June 2016, Article number 7491574, Pages 123-128
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)

ISBN: 978-146738499-5 **DOI:** 10.1109/CyberSec.2015.32

Source Type: Conference Proceeding
Original language: English
Document Type: Conference Paper
Sponsors: Sampoerna University,SDIWC
Publisher: Institute of Electrical and Electronics Engineers Inc.

A cloud-based forensics tracking scheme for online social network clients

Lin, F.-Y. , Huang, C.-C. , Chang, P.-Y.
(2015) Forensic Science International

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1 Al-Hadadi, M., Al-Shidhani, A.
Smartphone forensics analysis a case study
(2013) *International Journal of Computer and Electrical Engineering*, 5 (6). Cited 5 times.
December

2 Mylonas, A., Meletiadis, V., Tsoumas, B., Mitrou, L., Gritzalis, D.
Smartphone forensics: A proactive investigation scheme for evidence acquisition
(2012) *IFIP Advances in Information and Communication Technology*, 376 AICT, pp. 249-260. Cited 13 times.
ISBN: 978-364230435-4
doi: 10.1007/978-3-642-30436-1_21
View at Publisher

3 Lessad, J., Kessler, G.C.
Android forensics: Simplifying cell phone examinations
(2013) *Small Scale Digital Device Forensics Journal*, 4 (1). Cited 49 times.
http://www.ssddfj.org/papers/SSDDFJ_V4_1_Lessard_Kessler.pdf

4 Faheem, M., Le-Khac, N.-A., Kechadi, T.
Smartphone forensic analysis: A case study for obtaining root access of an android samsung s3 device and analyse the image without an expensive commercial tool
(2014) *Journal of Information Security*. Cited 2 times.

5 (2015) *Android Developers Website*. Cited 2 times.
Retrieved on 14 April
http://developer.android.com/index.html

6 (2015) *An Introduction to Android Forensics*
Forensic Magazine Website Retrieved on 5 May
http://www.forensicmag.com/articles/2010/04/introduction-Androidforensics

7 (2015) *The Sleuth Kit Retrieved on 5 March*
http://www.sleuthkit.org/sleuthkit/

8 (2015) *The Statistics Portal Website Retrieve on*
4 May
http://www.statista.com

9 Jackson, W.
Can Digital Forensics Keep Up with Smartphone Tech? Retrieved on 2 April from
http://gcn.com/Articles/2014/06/16/forensics-Technologyrace.aspx?Page=2

10 (2015) *Getting Forensics Data off Smartphones and Tablets Can Be Tough*
Networkworld.com Retrieve 12 March 2015
http://www.networkworld.com/article/2160656/smartphones/gettingforensics-data-off-smartphones-Tablets-can-be-Tough-experts-say.html

11 Martin, A.
(2015) *Mobile Device Forensic SANS Forensics White Paper*
Retrieved on 10 April
http://digitalforensics.sans.org/community/papers/gcfa/mobile-deviceforensics_3553

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