

Scopus

Document details

[Back to results](#) | 1 of 1
[Export](#)
[Download](#)
[Print](#)
[E-mail](#)
[Save to PDF](#)
[Add to List](#)
[More...](#)
[Full Text](#)[View at Publisher](#)

Proceedings - 4th International Conference on Cyber Security, Cyber Warfare, and Digital Forensics, CyberSec 2015
 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)

 Aziz, N.A. [✉](#), Mokhti, F. [✉](#), Nozri, M.N.M. [✉](#)

 Dept. of Computer Science, Kulliyyah of ICT and Center of Excellence for CyberSecurity (IIUM-CSM), International
 Islamic University Malaysia, Gombak, Selangor, Malaysia

Abstract

[View references \(11\)](#)

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 forensics

Modus operandi

Wireless technologies

Engineering main heading: Android (operating system)

 Metrics [View all metrics](#)

 1 Citation in Scopus
 86th Percentile

 3.17 Field-Weighted
 Citation Impact


PlumX Metrics

 Usage, Captures, Mentions,
 Social Media and Citations
 beyond Scopus.

Cited by 1 document

Forensic investigation procedure
 for data acquisition and analysis
 of Firefox OS based mobile
 devices

Jadhav, M. , Joshi, K.K.
*(2017) International Conference
 on Computing, Analytics and
 Security Trends, CAST 2016*

[View details of this citation](#)
 Inform me when this document
 is cited in Scopus:
[Set citation alert](#)[Set citation feed](#)

Related documents

Analysis and bypassing of pattern
 lock in android smartphone

Venkateswara Rao, V. ,
 Chakravarthy, A.S.N.
*(2017) 2016 IEEE International
 Conference on Computational
 Intelligence and Computing
 Research, ICCIC 2016*

Analysis of smartphone-based
 location information

Kim, D. , Bang, J. , Lee, S.
*(2012) Lecture Notes in Electrical
 Engineering*

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*

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

References (11)

View in search results format >

☐ All ☐ Export ☐ Print ☐ E-mail ☐ Save to PDF ☐ Create bibliography

- ☐ 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., Meletiadiis, 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
-

© Copyright 2017 Elsevier B.V., All rights reserved.

< Back to results | 1 of 1

^ Top of page

About Scopus

What is Scopus
Content coverage
Scopus blog
Scopus API
Privacy matters

Language

日本語に切り替える
切换到简体中文
切换到繁體中文
Русский язык

Customer Service

Help
Contact us

ELSEVIER

Terms and conditions Privacy policy

Copyright © 2017 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

Cookies are set by this site. To decline them or learn more, visit our Cookies page.

RELX Gr