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S-ROID, An Efficient Methodology to Extract Deleted Data from Android

Publisher: IEEE

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Abstract



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Abstract:

In today's world, Android technology has woven itself into the fabric of our daily routines, assuming a vital role in various aspects of our lives. The consistent surge in the utilization of Android mobile phones reflects their increasing significance. The data we entrust to these devices, encompassing personal information, memories, and essential documents, has become an integral part of modern existence. However, as the digital realm continues to expand, the available memory space on these devices can often become constrained. A noteworthy concern arises when data is deleted, whether unintentionally or deliberately. People are left wondering whether this deleted data can still be retrieved or if it has been irreversibly lost. This research endeavours to provide answers to these pressing questions. The core focus of the study is to tackle the uncertainty surrounding deleted data. To achieve this, a comprehensive exploration is conducted into the workings of Android's prevalent file system. Delving deeper, the research delves into the intricate mechanisms by which deleted data is stored within the Android system. This involves understanding how the system manages the space previously occupied by deleted files and whether traces of these files persist, potentially allowing for their recovery. In addition to the analysis of the file system, the research explores a range of methods and techniques for data recovery. In summation, the research sets out to address the prevalent uncertainties related to the fate of deleted data on Android devices. By deeply investigating the file system's architecture, data management practices, and recovery options, the study strives to demystify the process of data deletion and recovery. Through its findings, the research contributes to enhancing our understanding of how data is handled in the digital

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landscape and offers valuable insights into ensuring data security and recovery in an ever-evolving technological environment.

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Published in: 2023 12th International Conference on System Modeling & Advancement in Research Trends (SMART)

Date of Conference: 22-23 December 2023

DOI: 10.1109/SMART59791.2023.10428248

Date Added to IEEE Xplore: 19 February 2024

Publisher: IEEE

► **ISBN Information:**

Conference Location: Moradabad, India

▼ **ISSN Information:**

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I. Introduction

In recent years, mobile phones and other forms of mobile technology have rapidly become indispensable components of the Internet as well as the global communications infrastructure. In today's world, the vast majority of mobile phones, including smartphones, come equipped with the ability to connect to the internet and operate desktop applications, such as word processors, spreadsheets, and gaming consoles. This is particularly true of smartphones. Because smartphones have the ability to place **Sign in to Continue Reading** it is possible that they will soon play an important role in the investigation and prosecution of crimes that are committed online (Eo, S., et al. 2015). This paper focussed on Ext4 file system which is most widely used file systems in android. The most widely used file system in Android is ext4 (Fourth Extended File System). Ext4 is the default file system for most Android devices because it offers several advantages suitable for modern mobile devices:

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