

# Practical Mobile Forensics

Practical Mobile Forensics Practical Mobile Forensics Practical Mobile Forensics Practical Mobile Forensics - Fourth Edition Practical Mobile Forensics, Mobile Forensics Cookbook Practical Mobile Forensics- Third Edition Practical Mobile Forensics - Third Edition Learning Android Forensics Mastering Python Forensics Learning Network Forensics Hands-On Network Forensics Learning Android Forensics Information Technology - New Generations Recent Advances in Computing Sciences Learning Android Forensics Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation Practical Forensic Analysis of Artifacts on iOS and Android Devices Mobile Forensics Cookbook Heather Mahalik Satish Bommisetty Rohit Tamma Rohit Tamma Heather Mahalik Igor Mikhaylov Rohit Tamma Rohit Tamma. Oleg Skulkin. Satish Bommisetty Rohit Tamma Dr. Michael Spreitzenbarth Samir Datt Nipun Jaswal Oleg Skulkin Shahram Latifi Manmohan Sharma Donnie Tindall Lee Reiber Lee Reiber Mohammed Moreb Igor Mikhaylov Practical Mobile Forensics Practical Mobile Forensics Practical Mobile Forensics Practical Mobile Forensics - Fourth Edition Practical Mobile Forensics, Mobile Forensics Cookbook Practical Mobile Forensics- Third Edition Practical Mobile Forensics - Third Edition Learning Android Forensics Mastering Python Forensics Learning Network Forensics Hands-On Network Forensics Learning Android Forensics Information Technology - New Generations Recent Advances in Computing Sciences Learning Android Forensics Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation Practical Forensic Analysis of Artifacts on iOS and Android Devices Mobile Forensics Cookbook *Heather Mahalik Satish Bommisetty Rohit Tamma Rohit Tamma Heather Mahalik Igor Mikhaylov Rohit Tamma*

*Rohit Tamma. Oleg Skulkin. Satish Bommisetty Rohit Tamma Dr. Michael Spreitzenbarth Samir Datt Nipun Jaswal Oleg Skulkin Shahram Latifi Manmohan Sharma Donnie Tindall Lee Reiber Lee Reiber Mohammed Moreb Igor Mikhaylov*

a hands on guide to mastering mobile forensics for the ios android and the windows phone platforms about this book get to grips with the basics of mobile forensics and the various forensic approaches retrieve and analyze the data stored on mobile devices and on the cloud a practical guide to leverage the power of mobile forensics on the popular mobile platforms with lots of tips tricks and caveats who this book is for this book is for forensics professionals who are eager to widen their forensics skillset to mobile forensics and acquire data from mobile devices what you will learn discover the new features in practical mobile forensics understand the architecture and security mechanisms present in ios and android platforms identify sensitive files on the ios and android platforms set up the forensic environment extract data on the ios and android platforms recover data on the ios and android platforms understand the forensics of windows devices explore various third party application techniques and data recovery techniques in detail mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions this book is an update to practical mobile forensics and it delves into the concepts of mobile forensics and its importance in today s world we will deep dive into mobile forensics techniques in ios 8 9 2 android 4 4 6 and windows phone devices we will demonstrate the latest open source and commercial mobile forensics tools enabling you to analyze and retrieve data effectively you will learn how to introspect and retrieve data from cloud and document and prepare reports for your investigations by the end of this book you will have mastered the current operating systems and techniques so you can recover data from mobile devices by leveraging open source solutions style and approach this book takes a very practical approach and depicts real life mobile forensics scenarios with lots of tips and tricks to help acquire the required forensics skillset for various mobile platforms

the book is an easy to follow guide with clear instructions on various mobile forensic techniques the chapters and the topics within are structured for a smooth learning curve

which will swiftly empower you to master mobile forensics if you are a budding forensic analyst consultant engineer or a forensic professional wanting to expand your skillset this is the book for you the book will also be beneficial to those with an interest in mobile forensics or wanting to find data lost on mobile devices it will be helpful to be familiar with forensics in general but no prior experience is required to follow this book

become well versed with forensics for the android ios and windows 10 mobile platforms by learning essential techniques and exploring real life scenarios key features apply advanced forensic techniques to recover deleted data from mobile devices retrieve and analyze data stored not only on mobile devices but also on the cloud and other connected mediums use the power of mobile forensics on popular mobile platforms by exploring different tips tricks and techniques book description mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions this updated fourth edition of practical mobile forensics delves into the concepts of mobile forensics and its importance in today's world the book focuses on teaching you the latest forensic techniques to investigate mobile devices across various mobile platforms you will learn forensic techniques for multiple os versions including ios 11 to ios 13 android 8 to android 10 and windows 10 the book then takes you through the latest open source and commercial mobile forensic tools enabling you to analyze and retrieve data effectively from inspecting the device and retrieving data from the cloud through to successfully documenting reports of your investigations you'll explore new techniques while building on your practical knowledge toward the end you will understand the reverse engineering of applications and ways to identify malware finally the book guides you through parsing popular third party applications including facebook and whatsapp by the end of this book you will be proficient in various mobile forensic techniques to analyze and extract data from mobile devices with the help of open source solutions what you will learn discover new data extraction data recovery and reverse engineering techniques in mobile forensics understand ios windows and android security mechanisms identify sensitive files on every mobile platform extract data from ios android and windows platforms understand malware analysis reverse engineering and data analysis of mobile devices explore various data recovery techniques on all three mobile platforms who this book is for this book is for

forensic examiners with basic experience in mobile forensics or open source solutions for mobile forensics computer security professionals researchers or anyone looking to gain a deeper understanding of mobile internals will also find this book useful some understanding of digital forensic practices will be helpful to grasp the concepts covered in the book more effectively

become well versed with forensics for the android ios and windows 10 mobile platforms by learning essential techniques and exploring real life scenarios key features apply advanced forensic techniques to recover deleted data from mobile devices retrieve and analyze data stored not only on mobile devices but also on the cloud and other connected mediums use the power of mobile forensics on popular mobile platforms by exploring different tips tricks and techniques book description mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions this updated fourth edition of practical mobile forensics delves into the concepts of mobile forensics and its importance in today's world the book focuses on teaching you the latest forensic techniques to investigate mobile devices across various mobile platforms you will learn forensic techniques for multiple os versions including ios 11 to ios 13 android 8 to android 10 and windows 10 the book then takes you through the latest open source and commercial mobile forensic tools enabling you to analyze and retrieve data effectively from inspecting the device and retrieving data from the cloud through to successfully documenting reports of your investigations you'll explore new techniques while building on your practical knowledge toward the end you will understand the reverse engineering of applications and ways to identify malware finally the book guides you through parsing popular third party applications including facebook and whatsapp by the end of this book you will be proficient in various mobile forensic techniques to analyze and extract data from mobile devices with the help of open source solutions what you will learn discover new data extraction data recovery and reverse engineering techniques in mobile forensics understand ios windows and android security mechanisms identify sensitive files on every mobile platform extract data from ios android and windows platforms understand malware analysis reverse engineering and data analysis of mobile devices explore various data recovery techniques on all three mobile platforms who this book is for this book is for

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investigate analyze and report ios android and windows devices key features get hands on experience in performing simple to complex mobile forensics techniques retrieve and analyze data stored not only on mobile devices but also through the cloud and other connected mediums a practical guide to leveraging the power of mobile forensics on popular mobile platforms with lots of tips tricks and caveats book description covering up to date mobile platforms this book will focuses on teaching you the most recent techniques for investigating mobile devices we delve mobile forensics techniques in ios 9 11 android 7 8 devices and windows 10 we will demonstrate the latest open source and commercial mobile forensics tools enabling you to analyze and retrieve data effectively you will learn how to introspect and retrieve data from the cloud and document and prepare reports of your investigations by the end of this book you will have mastered the current operating systems and the relevant techniques to recover data from mobile devices by leveraging open source solutions what you will learn discover the new techniques in practical mobile forensics understand the architecture and security mechanisms present in ios and android platforms identify sensitive files on the ios and android platforms set up a forensic environment extract data from the ios and android platforms recover data on the ios and android platforms understand the forensics of windows devices explore various third party application techniques and data recovery techniques who this book is for if you are a forensics professional and are eager to widen your forensics skill set to mobile forensics then this book is for you some understanding of digital forensics practices would do wonders

discover the tools and techniques of mobile forensic investigations and make sure your mobile autopsy doesn't miss a thing all through powerful practical recipes about this book acquire in depth knowledge of mobile device acquisition using modern forensic tools understand the importance of clouds for mobile forensics and learn how to extract data from them discover advanced data extraction techniques that will help you to solve forensic tasks

and challenges who this book is for this book is aimed at practicing digital forensics analysts and information security professionals familiar with performing basic forensic investigations on mobile device operating systems namely android ios windows and blackberry it s also for those who need to broaden their skillset by adding more data extraction and recovery techniques what you will learn retrieve mobile data using modern forensic tools work with oxygen forensics for android devices acquisition perform a deep dive analysis of ios android windows and blackberry phone file systems understand the importance of cloud in mobile forensics and extract data from the cloud using different tools learn the application of sqlite and plists forensics and parse data with digital forensics tools perform forensic investigation on ios android windows and blackberry mobile devices extract data both from working and damaged mobile devices using jtag and chip off techniques in detail considering the emerging use of mobile phones there is a growing need for mobile forensics mobile forensics focuses specifically on performing forensic examinations of mobile devices which involves extracting recovering and analyzing data for the purposes of information security criminal and civil investigations and internal investigations mobile forensics cookbook starts by explaining sim cards acquisition and analysis using modern forensics tools you will discover the different software solutions that enable digital forensic examiners to quickly and easily acquire forensic images you will also learn about forensics analysis and acquisition on android ios windows mobile and blackberry devices next you will understand the importance of cloud computing in the world of mobile forensics and understand different techniques available to extract data from the cloud going through the fundamentals of sqlite and plists forensics you will learn how to extract forensic artifacts from these sources with appropriate tools by the end of this book you will be well versed with the advanced mobile forensics techniques that will help you perform the complete forensic acquisition and analysis of user data stored in different devices style and approach this book delivers a series of extra techniques and methods for extracting and analyzing data from your android ios windows and blackberry devices using practical recipes you will be introduced to a lot of modern forensics tools for performing effective mobile forensics

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experience in performing simple to complex mobile forensics techniques retrieve and analyze data stored not only on mobile devices but also through the cloud and other connected mediums a practical guide to leveraging the power of mobile forensics on popular mobile platforms with lots of tips tricks and caveats book description covering up to date mobile platforms this book will focuses on teaching you the most recent techniques for investigating mobile devices we delve mobile forensics techniques in ios 9 11 android 7 8 devices and windows 10 we will demonstrate the latest open source and commercial mobile forensics tools enabling you to analyze and retrieve data effectively you will learn how to introspect and retrieve data from the cloud and document and prepare reports of your investigations by the end of this book you will have mastered the current operating systems and the relevant techniques to recover data from mobile devices by leveraging open source solutions what you will learn discover the new techniques in practical mobile forensics understand the architecture and security mechanisms present in ios and android platforms identify sensitive files on the ios and android platforms set up a forensic environment extract data from the ios and android platforms recover data on the ios and android platforms understand the forensics of windows devices explore various third party application techniques and data recovery techniques who this book is for if you are a forensics professional and are eager to widen your forensics skill set to mobile forensics then this book is for you some understanding of digital forensics practices would do wonders

investigate analyze and report ios android and windows devices about this book get hands on experience in performing simple to complex mobile forensics techniques retrieve and analyze data stored not only on mobile devices but also through the cloud and other connected mediums a practical guide to leveraging the power of mobile forensics on popular mobile platforms with lots of tips tricks and caveats who this book is for if you are a forensics professional and are eager to widen your forensics skill set to mobile forensics then this book is for you some understanding of digital forensics practices would do wonders what you will learn discover the new techniques in practical mobile forensics understand the architecture and security mechanisms present in ios and android platforms identify sensitive files on the ios and android platforms set up a forensic environment extract data from the

ios and android platforms recover data on the ios and android platforms understand the forensics of windows devices explore various third party application techniques and data recovery techniques in detail covering up to date mobile platforms this book will focuses on teaching you the most recent techniques for investigating mobile devices we delve mobile forensics techniques in ios 9 11 android 7 8 devices and windows 10 we will demonstrate the latest open source and commercial mobile forensics tools enabling you to analyze and retrieve data effectively you will learn how to introspect and retrieve data from the cloud and document and prepare reports of your investigations by the end of this book you will have mastered the current operating systems and the relevant techniques to recover data from mobile devices by leveraging open source solutions style and approach this book takes a very practical approach and depicts real life mobile forensics scenarios with lots of tips and tricks to help you acquire the required forensics skillset for various mobile platforms downloading the example code for this book you can download the example code files for all packt books you have purchased from your account at [packtpub.com](http://packtpub.com) if you purchased this book elsewhere you can visit [packtpub.com/support](http://packtpub.com/support) and register to have the files e mailed directly to you

if you are a forensic analyst or an information security professional wanting to develop your knowledge of android forensics then this is the book for you some basic knowledge of the android mobile platform is expected

master the art of digital forensics and analysis with python about this book learn to perform forensic analysis and investigations with the help of python and gain an advanced understanding of the various python libraries and frameworks analyze python scripts to extract metadata and investigate forensic artifacts the writers dr michael spreitzenbarth and dr johann uhrmann have used their experience to craft this hands on guide to using python for forensic analysis and investigations who this book is for if you are a network security professional or forensics analyst who wants to gain a deeper understanding of performing forensic analysis with python then this book is for you some python experience would be helpful what you will learn explore the forensic analysis of different platforms



such as windows android and vsphere semi automatically reconstruct major parts of the system activity and time line leverage python ctypes for protocol decoding examine artifacts from mobile skype and browsers discover how to utilize python to improve the focus of your analysis investigate in volatile memory with the help of volatility on the android and linux platforms in detail digital forensic analysis is the process of examining and extracting data digitally and examining it python has the combination of power expressiveness and ease of use that makes it an essential complementary tool to the traditional off the shelf digital forensic tools this book will teach you how to perform forensic analysis and investigations by exploring the capabilities of various python libraries the book starts by explaining the building blocks of the python programming language especially ctypes in depth along with how to automate typical tasks in file system analysis common correlation tasks to discover anomalies as well as templates for investigations next we ll show you cryptographic algorithms that can be used during forensic investigations to check for known files or to compare suspicious files with online services such as virustotal or mobile sandbox moving on you ll learn how to sniff on the network generate and analyze network flows and perform log correlation with the help of python scripts and tools you ll get to know about the concepts of virtualization and how virtualization influences it forensics and you ll discover how to perform forensic analysis of a jailbroken rooted mobile device that is based on ios or android finally the book teaches you how to analyze volatile memory and search for known malware samples based on yara rules style and approach this easy to follow guide will demonstrate forensic analysis techniques by showing you how to solve real word scenarios step by step

identify and safeguard your network against both internal and external threats hackers and malware attacks about this book lay your hands on physical and virtual evidence to understand the sort of crime committed by capturing and analyzing network traffic connect the dots by understanding web proxies firewalls and routers to close in on your suspect a hands on guide to help you solve your case with malware forensic methods and network behaviors who this book is for if you are a network administrator system administrator information security or forensics professional and wish to learn network forensic to track

the intrusions through network based evidence then this book is for you basic knowledge of linux and networking concepts is expected what you will learn understand internetworking sources of network based evidence and other basic technical fundamentals including the tools that will be used throughout the book acquire evidence using traffic acquisition software and know how to manage and handle the evidence perform packet analysis by capturing and collecting data along with content analysis locate wireless devices as well as capturing and analyzing wireless traffic data packets implement protocol analysis and content matching acquire evidence from nids nips act upon the data and evidence gathered by being able to connect the dots and draw links between various events apply logging and interfaces along with analyzing web proxies and understanding encrypted web traffic use iocs indicators of compromise and build real world forensic solutions dealing with malware in detail we live in a highly networked world every digital device phone tablet or computer is connected to each other in one way or another in this new age of connected networks there is network crime network forensics is the brave new frontier of digital investigation and information security professionals to extend their abilities to catch miscreants on the network the book starts with an introduction to the world of network forensics and investigations you will begin by getting an understanding of how to gather both physical and virtual evidence intercepting and analyzing network data wireless data packets investigating intrusions and so on you will further explore the technology tools and investigating methods using malware forensics network tunneling and behaviors by the end of the book you will gain a complete understanding of how to successfully close a case style and approach an easy to follow book filled with real world case studies and applications each topic is explained along with all the practical tools and software needed allowing the reader to use a completely hands on approach

gain basic skills in network forensics and learn how to apply them effectively key featuresinvestigate network threats with easepractice forensics tasks such as intrusion detection network analysis and scanninglearn forensics investigation at the network levelbook description network forensics is a subset of digital forensics that deals with network attacks and their investigation in the era of network attacks and malware threat it

s now more important than ever to have skills to investigate network attacks and vulnerabilities hands on network forensics starts with the core concepts within network forensics including coding networking forensics tools and methodologies for forensic investigations you ll then explore the tools used for network forensics followed by understanding how to apply those tools to a pcap file and write the accompanying report in addition to this you will understand how statistical flow analysis network enumeration tunneling and encryption and malware detection can be used to investigate your network towards the end of this book you will discover how network correlation works and how to bring all the information from different types of network devices together by the end of this book you will have gained hands on experience of performing forensics analysis tasks what you will learndiscover and interpret encrypted trafficlearn about various protocolsunderstand the malware language over wiregain insights into the most widely used malwarecorrelate data collected from attacksdevelop tools and custom scripts for network forensics automationwho this book is for the book targets incident responders network engineers analysts forensic engineers and network administrators who want to extend their knowledge from the surface to the deep levels of understanding the science behind network protocols critical indicators in an incident and conducting a forensic search over the wire

a comprehensive guide to android forensics from setting up the workstation to analyzing key artifacts key featuresget up and running with modern mobile forensic strategies and techniquesanalyze the most popular android applications using free and open source forensic toolslearn malware detection and analysis techniques to investigate mobile cybersecurity incidentsbook description many forensic examiners rely on commercial push button tools to retrieve and analyze data even though there is no tool that does either of these jobs perfectly learning android forensics will introduce you to the most up to date android platform and its architecture and provide a high level overview of what android forensics entails you will understand how data is stored on android devices and how to set up a digital forensic examination environment as you make your way through the chapters you will work through various physical and logical techniques to extract data from devices in order to obtain forensic evidence you will also learn how to recover deleted data and forensically

analyze application data with the help of various open source and commercial tools in the concluding chapters you will explore malware analysis so that you ll be able to investigate cybersecurity incidents involving android malware by the end of this book you will have a complete understanding of the android forensic process you will have explored open source and commercial forensic tools and will have basic skills of android malware identification and analysis what you will learnunderstand android os and architectureset up a forensics environment for android analysisperform logical and physical data extractionslearn to recover deleted dataexplore how to analyze application dataidentify malware on android devicesanalyze android malwarewho this book is for if you are a forensic analyst or an information security professional wanting to develop your knowledge of android forensics then this is the book for you some basic knowledge of the android mobile platform is expected

this volume presents a collection of peer reviewed scientific articles from the 15th international conference on information technology new generations held at las vegas the collection addresses critical areas of machine learning networking and wireless communications cybersecurity data mining software engineering high performance computing architectures computer vision health bioinformatics and education

the 2nd international conference on recent advances in computing sciences racs was held from 29th to 30th november 2022 at lovely professional university jalandhar india the conference focused on discussing issues exchanging ideas and the most recent innovations towards advancing research in the field of computing sciences and technology all technical sessions were predominantly related to data science artificial intelligence remote sensing image processing computer vision data forensics cyber security computational sciences simulation and modeling business analytics and machine learning

master the tools and techniques of mobile forensic investigationsconduct mobile forensic investigations that are legal ethical and highly effective using the detailed information contained in this practical guide mobile forensic investigations a guide to evidence

collection analysis and presentation second edition fully explains the latest tools and methods along with features examples and real world case studies find out how to assemble a mobile forensics lab collect prosecutable evidence uncover hidden files and lock down the chain of custody this comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court ready documents legally seize mobile devices usb drives sd cards and sim cards uncover sensitive data through both physical and logical techniques properly package document transport and store evidence work with free open source and commercial forensic software perform a deep dive analysis of ios android and windows phone file systems extract evidence from application cache and user storage files extract and analyze data from iot devices drones wearables and infotainment systems build sqlite queries and python scripts for mobile device file interrogation prepare reports that will hold up to judicial and defense scrutiny

this in depth guide reveals the art of mobile forensics investigation with comprehensive coverage of the entire mobile forensics investigation lifecycle from evidence collection through advanced data analysis to reporting and presenting findings mobile forensics investigation a guide to evidence collection analysis and presentation leads examiners through the mobile forensics investigation process from isolation and seizure of devices to evidence extraction and analysis and finally through the process of documenting and presenting findings this book gives you not only the knowledge of how to use mobile forensics tools but also the understanding of how and what these tools are doing enabling you to present your findings and your processes in a court of law this holistic approach to mobile forensics featuring the technical alongside the legal aspects of the investigation process sets this book apart from the competition this timely guide is a much needed resource in today s mobile computing landscape notes offer personal insights from the author s years in law enforcement tips highlight useful mobile forensics software applications including open source applications that anyone can use free of charge case studies document actual cases taken from submissions to the author s podcast series photographs demonstrate proper legal protocols including seizure and storage of devices and screenshots showcase mobile forensics software at work provides you with a holistic understanding of mobile

forensics

leverage foundational concepts and practical skills in mobile device forensics to perform forensically sound criminal investigations involving the most complex mobile devices currently available on the market using modern tools and techniques this book shows you how to conduct a structured investigation process to determine the nature of the crime and to produce results that are useful in criminal proceedings you ll walkthrough the various phases of the mobile forensics process for both android and ios based devices including forensically extracting collecting and analyzing data and producing and disseminating reports practical cases and labs involving specialized hardware and software illustrate practical application and performance of data acquisition including deleted data and the analysis of extracted information you ll also gain an advanced understanding of computer forensics focusing on mobile devices and other devices not classifiable as laptops desktops or servers this book is your pathway to developing the critical thinking analytical reasoning and technical writing skills necessary to effectively work in a junior level digital forensic or cybersecurity analyst role what you ll learn acquire and investigate data from mobile devices using forensically sound industry standard tools understand the relationship between mobile and desktop devices in criminal and corporate investigations analyze backup files and artifacts for forensic evidence who this book is for forensic examiners with little or basic experience in mobile forensics or open source solutions for mobile forensics the book will also be useful to anyone seeking a deeper understanding of mobile internals

discover the tools and techniques of mobile forensic investigations and make sure your mobile autopsy doesn t miss a thing all through powerful practical recipes about this book acquire in depth knowledge of mobile device acquisition using modern forensic tools understand the importance of clouds for mobile forensics and learn how to extract data from them discover advanced data extraction techniques that will help you to solve forensic tasks and challenges who this book is for this book is aimed at practicing digital forensics analysts and information security professionals familiar with performing basic forensic

investigations on mobile device operating systems namely android ios windows and blackberry it s also for those who need to broaden their skillset by adding more data extraction and recovery techniques what you will learn retrieve mobile data using modern forensic tools work with oxygen forensics for android devices acquisition perform a deep dive analysis of ios android windows and blackberry phone file systems understand the importance of cloud in mobile forensics and extract data from the cloud using different tools learn the application of sqlite and plists forensics and parse data with digital forensics tools perform forensic investigation on ios android windows and blackberry mobile devices extract data both from working and damaged mobile devices using jtag and chip off techniques in detail considering the emerging use of mobile phones there is a growing need for mobile forensics mobile forensics focuses specifically on performing forensic examinations of mobile devices which involves extracting recovering and analyzing data for the purposes of information security criminal and civil investigations and internal investigations mobile forensics cookbook starts by explaining sim cards acquisition and analysis using modern forensics tools you will discover the different software solutions that enable digital forensic examiners to quickly and easily acquire forensic images you will also learn about forensics analysis and acquisition on android ios windows mobile and blackberry devices next you will understand the importance of cloud computing in the world of mobile forensics and understand different techniques available to extract data from the cloud going through the fundamentals of sqlite and plists forensics you will learn how to extract forensic artifacts from these sources with appropriate tools by

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