Practical Mobile Forensics

Practical Cyber Forensics
Mobile Phone Security and Forensics
A Practical Guide to Computer Forensics Investigations
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Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition
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Digital Forensics Workbook
Practical Forensic Analysis of Artifacts on iOS and Android Devices
Practical Mobile Forensics

Practical Mobile Forensics,
An In-Depth Guide to Mobile Device Forensics
Learn Computer Forensics
iPhone and iOS Forensics
Practical Digital Forensics
Handbook of Electronic Security and Digital Forensics
Windows Forensics Cookbook
Seeking the Truth from Mobile Evidence
Learning Android Forensics
Digital Forensics for Handheld Devices
Practical Mobile Forensics
Introduction to Security and Network Forensics
Learning Android Forensics
Hands-On Network Forensics
Handbook of Digital Forensics and Investigation
Mastering Mobile Forensics
Practical Mobile Forensics
Computer Forensics For Dummies
Practical Windows Forensics
Autopsy of a Crime Lab

SANTANA MYLA

Practical Cyber Forensics Packt Publishing Ltd
This new edition provides both theoretical and practical background of security and forensics for mobile phones. The author discusses confidentiality, integrity, and availability threats in mobile telephones to provide background for

the rest of the book. Security and secrets of mobile phones are discussed including software and hardware interception, fraud and other malicious techniques used “against” users. The purpose of this book is to raise user awareness in regards to security and privacy threats present in the use of mobile phones while readers will also learn where forensics data reside in the mobile phone and the network and how to conduct a relevant analysis. The information on denial of service attacks has been thoroughly updated for the new edition. Also, a major addition to this edition is a section discussing software defined radio and open source tools for mobile phones.

Mobile Phone Security and Forensics Springer 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.

A Practical Guide to Computer Forensics Investigations CRC Press
Developing a knowledge model helps to formalize the difficult task of analyzing crime incidents in addition to preserving and presenting the digital evidence for legal processing. The use of data analytics techniques to collect evidence assists forensic investigators in following the standard set of forensic procedures, techniques, and methods used for evidence collection and extraction. Varieties of data sources and information can be uniquely identified, physically isolated from the crime scene, protected, stored, and transmitted for investigation using AI techniques. With such large volumes of forensic data being processed, different deep learning techniques may be employed. Confluence of AI, Machine, and Deep Learning in Cyber Forensics contains cutting-edge research on the latest AI techniques being used to design and build solutions that address prevailing issues in cyber forensics and that will support efficient and effective investigations. This book seeks to understand the value of the deep learning algorithm to handle evidence data as well as the usage of neural networks to analyze investigation data. Other themes that are explored include machine learning

algorithms that allow machines to interact with the evidence, deep learning algorithms that can handle evidence acquisition and preservation, and techniques in both fields that allow for the analysis of huge amounts of data collected during a forensic investigation. This book is ideally intended for forensics experts, forensic investigators, cyber forensic practitioners, researchers, academicians, and students interested in cyber forensics, computer science and engineering, information technology, and electronics and communication.

Confluence of AI, Machine, and Deep Learning in Cyber Forensics Jones & Bartlett Learning

Become an effective cyber forensics investigator and gain a collection of practical, efficient techniques to get the job done. Diving straight into a discussion of anti-forensic techniques, this book shows you the many ways to effectively detect them. Now that you know what you are looking for, you'll shift your focus to network forensics, where you cover the various tools available to make your network forensics process less complicated. Following this, you will work with cloud and mobile forensic techniques by considering the concept of forensics as a service (FaSS), giving you cutting-edge skills that will future-proof

your career. Building on this, you will learn the process of breaking down malware attacks, web attacks, and email scams with case studies to give you a clearer view of the techniques to be followed. Another tricky technique is SSD forensics, so the author covers this in detail to give you the alternative analysis techniques you'll need. To keep you up to speed on contemporary forensics, Practical Cyber Forensics includes a chapter on Bitcoin forensics, where key crypto-currency forensic techniques will be shared. Finally, you will see how to prepare accurate investigative reports. What You Will LearnCarry out forensic investigation on Windows, Linux, and macOS systems Detect and counter anti-forensic techniques Deploy network, cloud, and mobile forensics Investigate web and malware attacks Write efficient investigative reports Who This Book Is For Intermediate infosec professionals looking for a practical approach to investigative cyber forensics techniques.

Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition Pearson Education

Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation, bringing together renowned experts in all areas of digital

forensics and investigation to provide the consummate resource for practitioners in the field. It is also designed as an accompanying text to Digital Evidence and Computer Crime. This unique collection details how to conduct digital investigations in both criminal and civil contexts, and how to locate and utilize digital evidence on computers, networks, and embedded systems. Specifically, the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice: Forensic Analysis, Electronic Discovery, and Intrusion Investigation. The Technology section is extended and updated to reflect the state of the art in each area of specialization. The main areas of focus in the Technology section are forensic analysis of Windows, Unix, Macintosh, and embedded systems (including cellular telephones and other mobile devices), and investigations involving networks (including enterprise environments and mobile telecommunications technology). This handbook is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind. *Provides methodologies proven in practice for

conducting digital investigations of all kinds *Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations

The Basics of Digital Forensics Academic Press

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.

Strengthening Forensic Science in the United States Packt Publishing Ltd

Maximize the power of Windows Forensics to perform highly effective forensic investigations About This Book Prepare and perform investigations using powerful tools for Windows, Collect and validate evidence from suspects and computers and

uncover clues that are otherwise difficult Packed with powerful recipes to perform highly effective field investigations Who This Book Is For If you are a forensic analyst or incident response professional who wants to perform computer forensics investigations for the Windows platform and expand your took kit, then this book is for you. What You Will Learn Understand the challenges of acquiring evidence from Windows systems and overcome them Acquire and analyze Windows memory and drive data with modern forensic tools. Extract and analyze data from Windows file systems, shadow copies and the registry Understand the main Windows system artifacts and learn how to parse data from them using forensic tools See a forensic analysis of common web browsers, mailboxes, and instant messenger services Discover how Windows 10 differs from previous versions and how to overcome the specific challenges it presents Create a graphical timeline and visualize data, which can then be incorporated into the final report Troubleshoot issues that arise while performing Windows forensics In Detail Windows Forensics Cookbook provides recipes to overcome forensic challenges and helps you carry out effective investigations easily on a Windows platform. You will begin with a refresher on digital forensics and

evidence acquisition, which will help you to understand the challenges faced while acquiring evidence from Windows systems. Next you will learn to acquire Windows memory data and analyze Windows systems with modern forensic tools. We also cover some more in-depth elements of forensic analysis, such as how to analyze data from Windows system artifacts, parse data from the most commonly-used web browsers and email services, and effectively report on digital forensic investigations. You will see how Windows 10 is different from previous versions and how you can overcome the specific challenges it brings. Finally, you will learn to troubleshoot issues that arise while performing digital forensic investigations. By the end of the book, you will be able to carry out forensics investigations efficiently. Style and approach This practical guide filled with hands-on, actionable recipes to detect, capture, and recover digital artifacts and deliver impeccable forensic outcomes.

Android Forensics

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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. *Practical Mobile Forensics* CRC Press Approximately 80 percent of the worlds population now owns a cell phone, which can hold evidence or contain logs about communications concerning a crime. Cameras, PDAs, and GPS devices can also contain information related to corporate policy infractions and crimes. Aimed to prepare investigators in the public and private sectors, Digital Forensics **Mobile Forensics – Advanced Investigative Strategies** Apress Master the tools and techniques of mobile forensic investigations Conduct 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

Practical Mobile Forensics

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The Basics of Digital Forensics provides a foundation for people new to the digital forensics field. This book teaches you how to conduct examinations by discussing what digital forensics is, the methodologies used, key tactical concepts, and the tools needed to perform examinations. Details on digital forensics for computers, networks, cell phones, GPS, the cloud and the Internet are discussed. Also, learn how to collect evidence, document

the scene, and how deleted data can be recovered. The new Second Edition of this book provides you with completely up-to-date real-world examples and all the key technologies used in digital forensics, as well as new coverage of network intrusion response, how hard drives are organized, and electronic discovery. You'll also learn how to incorporate quality assurance into an investigation, how to prioritize evidence items to examine (triage), case processing, and what goes into making an expert witness. The Second Edition also features expanded resources and references, including online resources that keep you current, sample legal documents, and suggested further reading. Learn what Digital Forensics entails Build a toolkit and prepare an investigative plan Understand the common artifacts to look for in an exam Second Edition features all-new coverage of hard drives, triage, network intrusion response, and electronic discovery; as well as updated case studies, expert interviews, and expanded resources and references

Digital Forensics, Investigation, and Response Elsevier

Get started with the art and science of digital forensics with this practical, hands-on guide! About This Book Champion the skills of digital forensics by

understanding the nature of recovering and preserving digital information which is essential for legal or disciplinary proceedings Explore new and promising forensic processes and tools based on 'disruptive technology' to regain control of caseloads. Richard Boddington, with 10+ years of digital forensics, demonstrates real life scenarios with a pragmatic approach Who This Book Is For This book is for anyone who wants to get into the field of digital forensics. Prior knowledge of programming languages (any) will be of great help, but not a compulsory prerequisite. What You Will Learn Gain familiarity with a range of different digital devices and operating and application systems that store digital evidence. Appreciate and understand the function and capability of forensic processes and tools to locate and recover digital evidence. Develop an understanding of the critical importance of recovering digital evidence in pristine condition and ensuring its safe handling from seizure to tendering it in evidence in court. Recognise the attributes of digital evidence and where it may be hidden and is often located on a range of digital devices. Understand the importance and challenge of digital evidence analysis and how it can assist investigations and

court cases. Explore emerging technologies and processes that empower forensic practitioners and other stakeholders to harness digital evidence more effectively. In Detail Digital Forensics is a methodology which includes using various tools, techniques, and programming language. This book will get you started with digital forensics and then follow on to preparing investigation plan and preparing toolkit for investigation. In this book you will explore new and promising forensic processes and tools based on 'disruptive technology' that offer experienced and budding practitioners the means to regain control of their caseloads. During the course of the book, you will get to know about the technical side of digital forensics and various tools that are needed to perform digital forensics. This book will begin with giving a quick insight into the nature of digital evidence, where it is located and how it can be recovered and forensically examined to assist investigators. This book will take you through a series of chapters that look at the nature and circumstances of digital forensic examinations and explains the processes of evidence recovery and preservation from a range of digital devices, including mobile phones, and other media. This book has a range of case studies and simulations

will allow you to apply the knowledge of the theory gained to real-life situations. By the end of this book you will have gained a sound insight into digital forensics and its key components. Style and approach The book takes the reader through a series of chapters that look at the nature and circumstances of digital forensic examinations and explains the processes of evidence recovery and preservation from a range of digital devices, including mobile phones, and other media. The mystery of digital forensics is swept aside and the reader will gain a quick insight into the nature of digital evidence, where it is located and how it can be recovered and forensically examined to assist investigators. *Learning Android Forensics* Packt Publishing Ltd Leverage the power of digital forensics for Windows systems About This Book Build your own lab environment to analyze forensic data and practice techniques. This book offers meticulous coverage with an example-driven approach and helps you build the key skills of performing forensics on Windows-based systems using digital artifacts. It uses specific open source and Linux-based tools so you can become proficient at analyzing forensic data and upgrade your existing knowledge. Who This Book Is For This book targets forensic

analysts and professionals who would like to develop skills in digital forensic analysis for the Windows platform. You will acquire proficiency, knowledge, and core skills to undertake forensic analysis of digital data. Prior experience of information security and forensic analysis would be helpful. You will gain knowledge and an understanding of performing forensic analysis with tools especially built for the Windows platform. What You Will Learn Perform live analysis on victim or suspect Windows systems locally or remotely Understand the different natures and acquisition techniques of volatile and non-volatile data. Create a timeline of all the system actions to restore the history of an incident. Recover and analyze data from FAT and NTFS file systems. Make use of various tools to perform registry analysis. Track a system user's browser and e-mail activities to prove or refute some hypotheses. Get to know how to dump and analyze computer memory. In Detail Over the last few years, the wave of the cybercrime has risen rapidly. We have witnessed many major attacks on the governmental, military, financial, and media sectors. Tracking all these attacks and crimes requires a deep understanding of operating system operations, how to extract evident data from digital evidence, and the best usage of

the digital forensic tools and techniques. Regardless of your level of experience in the field of information security in general, this book will fully introduce you to digital forensics. It will provide you with the knowledge needed to assemble different types of evidence effectively, and walk you through the various stages of the analysis process. We start by discussing the principles of the digital forensics process and move on to show you the approaches that are used to conduct analysis. We will then study various tools to perform live analysis, and go through different techniques to analyze volatile and non-volatile data. Style and approach This is a step-by-step guide that delivers knowledge about different Windows artifacts. Each topic is explained sequentially, including artifact analysis using different tools and techniques. These techniques make use of the evidence extracted from infected machines, and are accompanied by real-life examples.

Practical Linux Forensics Packt Publishing Ltd

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.
Introductory Computer Forensics Academic Press
iPhone and iOS Forensics is a guide to the forensic acquisition and analysis of iPhone and iOS devices, and offers practical advice on how to secure iOS devices, data and apps. The book takes an in-depth look at methods and processes that analyze the iPhone/iPod in an official legal manner, so that all of the methods and procedures outlined in the text can be taken into any courtroom. It includes information data sets that are new and evolving, with official hardware knowledge from Apple itself to help aid investigators. This book consists of 7 chapters covering device features and functions; file system and data storage; iPhone and iPad data security; acquisitions; data and application analysis; and commercial tool testing. This book will appeal to forensic investigators

(corporate and law enforcement) and incident response professionals. Learn techniques to forensically acquire the iPhone, iPad and other iOS devices Entire chapter focused on Data and Application Security that can assist not only forensic investigators, but also application developers and IT security managers In-depth analysis of many of the common applications (both default and downloaded), including where specific data is found within the file system

Mobile Phone Security and Forensics John Wiley & Sons

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.

Mobile Forensics Cookbook Springer

A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security

incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You'll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to: Extract evidence from storage devices and analyze partition tables, volume managers, popular Linux filesystems (Ext4, Btrfs, and Xfs), and encryption Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit files and targets leading up to a graphical login Perform analysis of power,

temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings Identify traces of attached peripheral devices (PCI, USB, Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity

Digital Forensics Workbook Elsevier This workbook is filled with activities for digital forensic examiners to gain hands-on practice acquiring and analyzing data.

Practical Forensic Analysis of Artifacts on iOS and Android Devices World

Scientific
A Practical Guide to Computer Forensics Investigations introduces the newest technologies along with detailed information on how the evidence contained on these devices should be analyzed. Packed with practical, hands-on activities, students will learn unique subjects from chapters including Mac Forensics, Mobile Forensics, Cyberbullying, and Child Endangerment. This well-developed book will prepare students for the rapidly-growing field of computer forensics for a career with law enforcement, accounting firms, banks and credit card companies, private investigation companies, or government agencies.
Practical Mobile Forensics Packt Publishing Ltd
Master powerful strategies to acquire and analyze evidence from real-life scenarios About This Book A straightforward guide to address the roadblocks face when doing mobile forensics Simplify mobile forensics using the right mix of methods, techniques, and tools Get valuable advice to put you in the mindset of a forensic professional, regardless of your career level or experience Who This Book Is For This book is for forensic analysts and law enforcement and IT security officers who have to deal with digital evidence as part of their daily job. Some basic familiarity with

digital forensics is assumed, but no experience with mobile forensics is required. What You Will Learn Understand the challenges of mobile forensics Grasp how to properly deal with digital evidence Explore the types of evidence available on iOS, Android, Windows, and BlackBerry mobile devices Know what forensic outcome to expect under given circumstances Deduce when and how to apply physical, logical, over-the-air, or low-level (advanced) acquisition methods Get in-depth knowledge of the different acquisition methods for all major mobile platforms Discover important mobile acquisition tools and techniques for all of the major platforms In Detail Investigating digital media is impossible without forensic tools. Dealing with complex forensic problems requires the use of dedicated tools, and even more importantly, the right strategies. In this book, you'll learn strategies and methods to deal with information stored on smartphones and tablets and see how to put the right tools to work. We begin by helping you understand the concept of mobile devices as a source of valuable evidence. Throughout this book, you will explore strategies and "plays" and decide when to use each technique. We cover important techniques such as seizing techniques to shield the device, and acquisition techniques including physical

acquisition (via a USB connection), logical acquisition via data backups, over-the-air acquisition. We also explore cloud analysis, evidence discovery and data analysis, tools for mobile forensics, and tools to help you discover and analyze evidence. By the end of the book, you will have a better understanding of the tools and methods used to deal with the challenges of acquiring, preserving, and extracting evidence stored on smartphones, tablets, and the cloud. Style and approach This book takes a unique strategy-based approach, executing them on real-world scenarios. You will be introduced to thinking in terms of "game plans," which are essential to succeeding in analyzing evidence and conducting investigations.

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