

Read Book Iphone And Ios Forensics Investigation Analysis And Le Security For Apple Iphone Ipad And Ios Devices Author Andrew Hoog Jul 2011 Pdf For Free

iPhone and iOS Forensics iOS Forensic Analysis iOS Forensic Analysis iPhone Forensics Practical Mobile Forensics Practical Mobile Forensics iPhone Forensics Learning IOS Forensics iOS Forensics for Investigators Android Forensics Practical Mobile Forensics Practical Forensic Analysis of Artifacts on iOS and Android Devices Hacking and Securing iOS Applications An In-Depth Guide to Mobile Device Forensics Mobile Forensics - Advanced Investigative Strategies Practical Mobile Forensics, iPhone Forensics Mastering Mobile Forensics Pro iOS Security and Forensics iOS Forensics Cookbook Learning Android Forensics Advances in Digital Forensics X Handbook of Digital Forensics and Investigation OS X Incident Response Hacking and Securing IOS Applications Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice Digital Forensics with Open Source Tools Practical Mobile Forensics Data Hiding Contemporary Digital Forensic Investigations of Cloud and Mobile Applications Mobile Forensic Investigations: A Guide to

Evidence Collection, Analysis, and Presentation, Second Edition Learning IOS Forensics - Second Edition Advances in Digital Forensics VII Operating System Forensics Mobile Forensics Cookbook The Art of Memory Forensics The Official CompTIA Security+ Self-Paced Study Guide (Exam SY0-601) Mastering Python Forensics Mac OS X, iPod, and iPhone Forensic Analysis DVD Toolkit Learn Computer Forensics

Advances in Digital Forensics X Jul 08 2021 Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role in information assurance -- investigations of security breaches yield valuable information that can be used to design more secure systems. Advances in Digital Forensics X describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: - Internet Crime Investigations; - Forensic Techniques; - Mobile Device Forensics; - Forensic Tools and Training. This book is the 10th volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty-two edited papers from the 10th Annual IFIP WG 11.9 International

Conference on Digital Forensics, held in Vienna, Austria in the winter of 2014. *Advances in Digital Forensics X* is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities.

OS X Incident Response May 06 2021 *OS X Incident Response: Scripting and Analysis* is written for analysts who are looking to expand their understanding of a lesser-known operating system. By mastering the forensic artifacts of OS X, analysts will set themselves apart by acquiring an up-and-coming skillset. Digital forensics is a critical art and science. While forensics is commonly thought of as a function of a legal investigation, the same tactics and techniques used for those investigations are also important in a response to an incident. Digital evidence is not only critical in the course of investigating many crimes but businesses are recognizing the importance of having skilled forensic investigators on staff in the case of policy violations. Perhaps more importantly, though, businesses are seeing enormous impact from malware outbreaks as well as data breaches. The skills of a forensic investigator are critical to determine the source of the attack as well as the impact. While there is a lot of focus on Windows because it is the predominant desktop operating system, there are currently very few resources available for forensic investigators on how to investigate attacks, gather evidence and respond to incidents involving OS X. The number of Macs on enterprise networks is rapidly increasing, especially with the growing prevalence of BYOD, including iPads and iPhones. Author Jaron Bradley covers a wide variety of topics, including both the collection and analysis of the forensic pieces found on the OS. Instead of using expensive commercial tools that clone the hard drive, you will learn how to write your own Python and bash-based response scripts. These scripts and methodologies can be used to collect and analyze volatile data immediately. For

online source codes, please visit:

https://github.com/jbradley89/osx_incident_response_scripting_and_analysis Focuses exclusively on OS X attacks, incident response, and forensics Provides the technical details of OS X so you can find artifacts that might be missed using automated tools Describes how to write your own Python and bash-based response scripts, which can be used to collect and analyze volatile data immediately Covers OS X incident response in complete technical detail, including file system, system startup and scheduling, password dumping, memory, volatile data, logs, browser history, and exfiltration

Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice Mar 04 2021 As computer and internet technologies continue to advance at a fast pace, the rate of cybercrimes is increasing. Crimes employing mobile devices, data embedding/mining systems, computers, network communications, or any malware impose a huge threat to data security, while cyberbullying, cyberstalking, child pornography, and trafficking crimes are made easier through the anonymity of the internet. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. **Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice** addresses current challenges and issues emerging in cyber forensics and new investigative tools and methods that can be adopted and implemented to address these issues and counter security breaches within various organizations. It also examines a variety of topics such as advanced techniques for forensic developments in computer and communication-link environments and legal perspectives including procedures for cyber investigations, standards, and policies. Highlighting a range of topics such as cybercrime, threat detection, and forensic science, this publication is an ideal reference source for security analysts, law enforcement, lawmakers, government officials, IT

professionals, researchers, practitioners, academicians, and students currently investigating the up-and-coming aspects surrounding network security, computer science, and security engineering.

Digital Forensics with Open Source Tools Feb 03 2021 Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems

Practical Mobile Forensics Nov 24 2022 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 Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation,

Second Edition Sep 29 2020 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

Hacking and Securing iOS Applications Apr 17 2022 If you're an app developer with a solid foundation in Objective-C, this book is an absolute must—chances are very high that your company's iOS applications are vulnerable to attack. That's because malicious attackers now use an arsenal of

tools to reverse-engineer, trace, and manipulate applications in ways that most programmers aren't aware of. This guide illustrates several types of iOS attacks, as well as the tools and techniques that hackers use. You'll learn best practices to help protect your applications, and discover how important it is to understand and strategize like your adversary. Examine subtle vulnerabilities in real-world applications—and avoid the same problems in your apps Learn how attackers infect apps with malware through code injection Discover how attackers defeat iOS keychain and data-protection encryption Use a debugger and custom code injection to manipulate the runtime Objective-C environment Prevent attackers from hijacking SSL sessions and stealing traffic Securely delete files and design your apps to prevent forensic data leakage Avoid debugging abuse, validate the integrity of run-time classes, and make your code harder to trace

Practical Forensic Analysis of Artifacts on iOS and Android Devices May 18 2022 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.

The Art of Memory Forensics Apr 24 2020 Memory forensics provides cutting edge technology to help investigate digital attacks Memory forensics is the art of analyzing computer memory (RAM) to solve digital crimes. As a follow-up to the best seller Malware Analyst's Cookbook, experts in the fields of malware, security, and digital forensics bring you a step-by-step guide to memory forensics—now the most sought after skill in the digital forensics and incident response fields. Beginning with introductory concepts and moving toward the advanced, The Art of Memory Forensics: Detecting Malware and Threats in Windows, Linux, and Mac Memory is based on a five day training course that the authors have presented to hundreds of students. It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly. Discover memory forensics techniques: How volatile memory analysis improves digital investigations Proper investigative steps for detecting stealth malware and advanced threats How to use free, open source tools for conducting thorough memory forensics Ways to acquire memory from suspect systems in a forensically sound manner The next era of malware and security breaches are more sophisticated and targeted, and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process. The Art of Memory Forensics explains the latest

technological innovations in digital forensics to help bridge this gap. It covers the most popular and recently released versions of Windows, Linux, and Mac, including both the 32 and 64-bit editions.

Mac OS X, iPod, and iPhone Forensic Analysis DVD Toolkit Jan 22 2020 This book provides digital forensic investigators, security professionals, and law enforcement with all of the information, tools, and utilities required to conduct forensic investigations of computers running any variant of the Macintosh OS X operating system, as well as the almost ubiquitous iPod and iPhone. Digital forensic investigators and security professionals subsequently can use data gathered from these devices to aid in the prosecution of criminal cases, litigate civil cases, audit adherence to federal regulatory compliance issues, and identify breach of corporate and government usage policies on networks. MAC Disks, Partitioning, and HFS+ File System Manage multiple partitions on a disk, and understand how the operating system stores data. FileVault and Time Machine Decrypt locked FileVault files and restore files backed up with Leopard's Time Machine. Recovering Browser History Uncover traces of Web-surfing activity in Safari with Web cache and .plist files Recovering Email Artifacts, iChat, and Other Chat Logs Expose communications data in iChat, Address Book, Apple's Mail, MobileMe, and Web-based email. Locating and Recovering Photos Use iPhoto, Spotlight, and shadow files to find artifacts of photos (e.g., thumbnails) when the originals no longer exist. Finding and Recovering QuickTime Movies and Other Video Understand video file formats--created with iSight, iMovie, or another application--and how to find them. PDF, Word, and Other Document Recovery Recover text documents and metadata with Microsoft Office, OpenOffice, Entourage, Adobe PDF, or other formats. Forensic Acquisition and Analysis of an iPod Document seizure of an iPod model and analyze the iPod image file and artifacts on a Mac. Forensic Acquisition and Analysis of an iPhone Acquire a physical image of an iPhone or iPod Touch and

safely analyze without jailbreaking. Includes Unique Information about Mac OS X, iPod, iMac, and iPhone Forensic Analysis Unavailable Anywhere Else Authors Are Pioneering Researchers in the Field of Macintosh Forensics, with Combined Experience in Law Enforcement, Military, and Corporate Forensics

iOS Forensic Analysis Mar 28 2023 iOS Forensic Analysis provides an in-depth look at investigative processes for the iPhone, iPod Touch, and iPad devices. The methods and procedures outlined in the book can be taken into any courtroom. With never-before-published iOS information and data sets that are new and evolving, this book gives the examiner and investigator the knowledge to complete a full device examination that will be credible and accepted in the forensic community.

Handbook of Digital Forensics and Investigation Jun 07 2021 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

Data Hiding Dec 01 2020 As data hiding detection and forensic techniques have matured, people are creating more advanced stealth methods for spying, corporate espionage, terrorism, and cyber warfare all to avoid detection. Data Hiding provides an exploration into the present day and next generation of tools and techniques used in covert communications, advanced malware methods and data concealment tactics. The hiding techniques outlined include the latest technologies including mobile devices, multimedia, virtualization and others. These concepts provide corporate, government and military personnel with the knowledge to investigate and defend against insider threats, spy techniques, espionage, advanced malware and secret communications. By understanding the plethora of threats, you will gain an understanding of the methods to defend oneself from these threats through detection, investigation, mitigation and prevention. Provides many real-world examples of data concealment on the latest technologies including iOS, Android, VMware, MacOS X, Linux and Windows 7 Dives deep into the less known approaches to data hiding, covert communications, and advanced malware Includes never before published information about next

generation methods of data hiding Outlines a well-defined methodology for countering threats Looks ahead at future predictions for data hiding

An In-Depth Guide to Mobile Device Forensics Mar 16 2022 Mobile devices are ubiquitous; therefore, mobile device forensics is absolutely critical. Whether for civil or criminal investigations, being able to extract evidence from a mobile device is essential. This book covers the technical details of mobile devices and transmissions, as well as forensic methods for extracting evidence. There are books on specific issues like Android forensics or iOS forensics, but there is not currently a book that covers all the topics covered in this book. Furthermore, it is such a critical skill that mobile device forensics is the most common topic the Author is asked to teach to law enforcement. This is a niche that is not being adequately filled with current titles. An In-Depth Guide to Mobile Device Forensics is aimed towards undergraduates and graduate students studying cybersecurity or digital forensics. It covers both technical and legal issues, and includes exercises, tests/quizzes, case studies, and slides to aid comprehension.

Practical Mobile Forensics Dec 25 2022 Become well-versed with forensics for the Android, iOS, and Windows 10 mobile platforms by learning essential techniques and exploring real-life scenarios
Key FeaturesApply advanced forensic techniques to recover deleted data from mobile devicesRetrieve and analyze data stored not only on mobile devices but also on the cloud and other connected mediumsUse the power of mobile forensics on popular mobile platforms by exploring different tips, tricks, and techniquesBook 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.

Learn Computer Forensics Dec 21 2019 Get up and running with collecting evidence using forensics best practices to present your findings in judicial or administrative proceedings Key Features Learn the core techniques of computer forensics to acquire and secure digital evidence

skillfully Conduct a digital forensic examination and document the digital evidence collected Analyze security systems and overcome complex challenges with a variety of forensic investigations Book Description A computer forensics investigator must possess a variety of skills, including the ability to answer legal questions, gather and document evidence, and prepare for an investigation. This book will help you get up and running with using digital forensic tools and techniques to investigate cybercrimes successfully. Starting with an overview of forensics and all the open source and commercial tools needed to get the job done, you'll learn core forensic practices for searching databases and analyzing data over networks, personal devices, and web applications. You'll then learn how to acquire valuable information from different places, such as filesystems, e-mails, browser histories, and search queries, and capture data remotely. As you advance, this book will guide you through implementing forensic techniques on multiple platforms, such as Windows, Linux, and macOS, to demonstrate how to recover valuable information as evidence. Finally, you'll get to grips with presenting your findings efficiently in judicial or administrative proceedings. By the end of this book, you'll have developed a clear understanding of how to acquire, analyze, and present digital evidence like a proficient computer forensics investigator. What you will learn Understand investigative processes, the rules of evidence, and ethical guidelines Recognize and document different types of computer hardware Understand the boot process covering BIOS, UEFI, and the boot sequence Validate forensic hardware and software Discover the locations of common Windows artifacts Document your findings using technically correct terminology Who this book is for If you're an IT beginner, student, or an investigator in the public or private sector this book is for you. This book will also help professionals and investigators who are new to incident response and digital forensics and interested in making a career in the cybersecurity domain.

iPhone Forensics Jan 26 2023 "This book is a must for anyone attempting to examine the iPhone. The level of forensic detail is excellent. If only all guides to forensics were written with this clarity!"- Andrew Sheldon, Director of Evidence Talks, computer forensics experts With iPhone use increasing in business networks, IT and security professionals face a serious challenge: these devices store an enormous amount of information. If your staff conducts business with an iPhone, you need to know how to recover, analyze, and securely destroy sensitive data. iPhone Forensics supplies the knowledge necessary to conduct complete and highly specialized forensic analysis of the iPhone, iPhone 3G, and iPod Touch. This book helps you: Determine what type of data is stored on the device Break v1.x and v2.x passcode-protected iPhones to gain access to the device Build a custom recovery toolkit for the iPhone Interrupt iPhone 3G's "secure wipe" process Conduct data recovery of a v1.x and v2.x iPhone user disk partition, and preserve and recover the entire raw user disk partition Recover deleted voicemail, images, email, and other personal data, using data carving techniques Recover geotagged metadata from camera photos Discover Google map lookups, typing cache, and other data stored on the live file system Extract contact information from the iPhone's database Use different recovery strategies based on case needs And more. iPhone Forensics includes techniques used by more than 200 law enforcement agencies worldwide, and is a must-have for any corporate compliance and disaster recovery plan.

The Official CompTIA Security+ Self-Paced Study Guide (Exam SY0-601) Mar 24 2020 CompTIA Security+ Study Guide (Exam SY0-601)

Advances in Digital Forensics VII Jul 28 2020 Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics

beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role in information assurance -- investigations of security breaches yield valuable information that can be used to design more secure systems. *Advances in Digital Forensics VII* describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: Themes and Issues, Forensic Techniques, Fraud and Malware Investigations, Network Forensics, and Advanced Forensic Techniques. This book is the 7th volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of 21 edited papers from the 7th Annual IFIP WG 11.9 International Conference on Digital Forensics, held at the National Center for Forensic Science, Orlando, Florida, USA in the spring of 2011. *Advances in Digital Forensics VII* is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities. Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA. Sujeet Shenoj is the F.P. Walter Professor of Computer Science at the University of Tulsa, Tulsa, Oklahoma, USA.

iOS Forensic Analysis Feb 27 2023 iOS Forensic Analysis provides an in-depth look at investigative processes for the iPhone, iPod Touch, and iPad devices. The methods and procedures outlined in the

book can be taken into any courtroom. With never-before-published iOS information and data sets that are new and evolving, this book gives the examiner and investigator the knowledge to complete a full device examination that will be credible and accepted in the forensic community.

Practical Mobile Forensics Jan 02 2021 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.

Android Forensics Jul 20 2022 The open source nature of the platform has not only established a new direction for the industry, but enables a developer or forensic analyst to understand the device at the most fundamental level. Android Forensics covers an open source mobile device platform based on the Linux 2.6 kernel and managed by the Open Handset Alliance. The Android platform is a major source of digital forensic investigation and analysis. This book provides a thorough review of the Android platform including supported hardware devices, the structure of the Android development project and implementation of core services (wireless communication, data storage and other low-level functions). Finally, it will focus on teaching readers how to apply actual forensic techniques to recover data. Ability to forensically acquire Android devices using the techniques outlined in the book Detailed information about Android applications needed for forensics investigations Important information about SQLite, a file based structured data storage relevant for both Android and many other platforms.

Learning IOS Forensics Sep 22 2022 If you are a digital forensics examiner daily involved in the acquisition and analysis of mobile devices and want to have a complete overview of how to perform your work on iOS devices, this book is definitely for you.

Mastering Python Forensics Feb 21 2020 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-world-scenarios step by step.

iOS Forensics for Investigators Aug 21 2022 Extract crucial data and lead successful criminal investigations by infiltrating every level of iOS devices Key Features • Explore free and commercial tools for carrying out data extractions and analysis for digital forensics • Learn to look for key artifacts, recover deleted mobile data, and investigate processed data • Get up and running with extracting full filesystem images and jailbreak devices to gather the most data possible Book Description Professionals working in the mobile forensics industry will be able to put their knowledge to work with this practical guide to learning how to extract and analyze all available data from an iOS device. This book is a comprehensive, how-to guide that leads investigators through the process of collecting mobile devices and preserving, extracting, and analyzing data, as well as building a report. Complete with step-by-step explanations of essential concepts, practical examples, and self-assessment questions, this book starts by covering the fundamentals of mobile forensics and how to overcome challenges in extracting data from iOS devices. Once you've walked through the

basics of iOS, you'll learn how to use commercial tools to extract and process data and manually search for artifacts stored in database files. Next, you'll find out the correct workflows for handling iOS devices and understand how to extract valuable information to track device usage. You'll also get to grips with analyzing key artifacts, such as browser history, the pattern of life data, location data, and social network forensics. By the end of this book, you'll be able to establish a proper workflow for handling iOS devices, extracting all available data, and analyzing it to gather precious insights that can be reported as prosecutable evidence. What you will learn

- Become familiar with the mobile forensics workflow
- Understand how to legally seize iOS devices and preserve their data
- Extract evidence through logical and filesystem acquisitions
- Perform a deep-dive analysis of user data and system data
- Gain insights by analyzing third-party applications
- Get to grips with gathering evidence stored on iCloud

Who this book is for Forensic analysts and investigators interested in extending their skills to extract data from iOS devices, including system logs, device usage, and third-party application data, will find this book useful. Anyone familiar with the principles of digital forensics and looking to expand their knowledge base in deep iOS examinations will also benefit from this book. Knowledge of mobile forensic principles, data extraction, Unix/Linux terminal, and some hands-on understanding of databases and SQL query language is assumed.

[Mobile Forensics Cookbook](#) May 26 2020 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.

iPhone Forensics Dec 13 2021

iPhone and iOS Forensics Apr 29 2023 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

Practical Mobile Forensics, Jan 14 2022 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 focus on teaching you the most recent techniques for investigating mobile devices. We delve into 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.

iOS Forensics Cookbook Sep 10 2021 Over 20 recipes that will enable you to handle and extract data from iOS devices for forensics About This Book This book gets you straight into solving even the most complex iOS forensic problems with easy-to-understand recipes Get to grips with extraction and analysis techniques to perform forensic investigations on iOS devices Gain insights into how to protect your data and perform data recovery from iOS-based devices Who This Book Is For If you are

an iOS application developer who wants to learn about a test flight, hockey app integration, and recovery tools, then this book is for you. This book will be helpful for students learning forensics, as well as experienced iOS developers.

What You Will Learn

- Discover the various ways to save data in the document directory of the device
- Get to grips with encrypting and decrypting of files saved in the document directories
- Explore ways to integrate social media with iOS applications
- Grab the user events and actions on the iOS application using analytic tools
- Analyze useful information from the data gathered in the cloud
- Grasp numerous concepts associated with air application distribution
- Track errors in an application effectively to document them for forensic analysis
- Read crash reports accumulated on iTunesConnect and decode them to generate and gather useful information

In Detail

Mobile device forensics is a branch of digital forensics that involves the recovery of evidence or data in a digital format from a device without affecting its integrity. With the growing popularity of iOS-based Apple devices, iOS forensics has developed immense importance. To cater to the need, this book deals with tasks such as the encryption and decryption of files, various ways to integrate techniques with social media, and ways to grab the user events and actions on the iOS app. Using practical examples, we'll start with the analysis keychain and raw disk decryption, social media integration, and getting accustomed to analytics tools. You'll also learn how to distribute the iOS apps without releasing them to Apple's App Store. Moving on, the book covers test flights and hockey app integration, the crash reporting system, recovery tools, and their features. By the end of the book, using the aforementioned techniques, you will be able to successfully analyze iOS-based devices forensically.

Style and approach

This book takes a step-by-step recipe-based approach to iOS forensics and investigation techniques. Topics are explained sequentially in order of complexity, and are accompanied by code and theory that is easy to grasp.

Mastering Mobile Forensics Nov 12 2021 Develop the capacity to dig deeper into mobile device data acquisition About This Book A mastering guide to help you overcome the roadblocks you face when dealing with mobile forensics Excel at the art of extracting data, recovering deleted data, bypassing screen locks, and much more Get best practices to how to collect and analyze mobile device data and accurately document your investigations Who This Book Is For The book is for mobile forensics professionals who have experience in handling forensic tools and methods. This book is designed for skilled digital forensic examiners, mobile forensic investigators, and law enforcement officers. What You Will Learn Understand the mobile forensics process model and get guidelines on mobile device forensics Acquire in-depth knowledge about smartphone acquisition and acquisition methods Gain a solid understanding of the architecture of operating systems, file formats, and mobile phone internal memory Explore the topics of mobile security, data leak, and evidence recovery Dive into advanced topics such as GPS analysis, file carving, encryption, encoding, unpacking, and decompiling mobile application processes In Detail Mobile forensics presents a real challenge to the forensic community due to the fast and unstoppable changes in technology. This book aims to provide the forensic community an in-depth insight into mobile forensic techniques when it comes to deal with recent smartphones operating systems Starting with a brief overview of forensic strategies and investigation procedures, you will understand the concepts of file carving, GPS analysis, and string analyzing. You will also see the difference between encryption, encoding, and hashing methods and get to grips with the fundamentals of reverse code engineering. Next, the book will walk you through the iOS, Android and Windows Phone architectures and filesystem, followed by showing you various forensic approaches and data gathering techniques. You will also explore advanced forensic techniques and find out how to deal with third-applications using case studies.

The book will help you master data acquisition on Windows Phone 8. By the end of this book, you will be acquainted with best practices and the different models used in mobile forensics. Style and approach The book is a comprehensive guide that will help the IT forensics community to go more in-depth into the investigation process and mobile devices take-over.

Practical Mobile Forensics Jun 19 2022 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.

Contemporary Digital Forensic Investigations of Cloud and Mobile Applications Oct 31 2020

Contemporary Digital Forensic Investigations of Cloud and Mobile Applications comprehensively discusses the implications of cloud (storage) services and mobile applications on digital forensic investigations. The book provides both digital forensic practitioners and researchers with an up-to-date and advanced knowledge of collecting and preserving electronic evidence from different types of cloud services, such as digital remnants of cloud applications accessed through mobile devices. This is the first book that covers the investigation of a wide range of cloud services. Dr. Kim-Kwang Raymond Choo and Dr. Ali Dehghantanha are leading researchers in cloud and mobile security and forensics, having organized research, led research, and been published widely in the field. Users will gain a deep overview of seminal research in the field while also identifying prospective future research topics and open challenges. Presents the most current, leading edge research on cloud and mobile application forensics, featuring a panel of top experts in the field Introduces the first book to provide an in-depth overview of the issues surrounding digital forensic investigations in cloud and associated mobile apps Covers key technical topics and provides readers with a complete understanding of the most current research findings Includes discussions on future research directions and challenges

Operating System Forensics Jun 26 2020 *Operating System Forensics* is the first book to cover all three critical operating systems for digital forensic investigations in one comprehensive reference.

Users will learn how to conduct successful digital forensic examinations in Windows, Linux, and Mac OS, the methodologies used, key technical concepts, and the tools needed to perform examinations. Mobile operating systems such as Android, iOS, Windows, and Blackberry are also covered, providing everything practitioners need to conduct a forensic investigation of the most commonly used operating systems, including technical details of how each operating system works and how to find artifacts. This book walks you through the critical components of investigation and operating system functionality, including file systems, data recovery, memory forensics, system configuration, Internet access, cloud computing, tracking artifacts, executable layouts, malware, and log files. You'll find coverage of key technical topics like Windows Registry, /etc directory, Web browsers caches, Mbox, PST files, GPS data, ELF, and more. Hands-on exercises in each chapter drive home the concepts covered in the book. You'll get everything you need for a successful forensics examination, including incident response tactics and legal requirements. Operating System Forensics is the only place you'll find all this covered in one book. Covers digital forensic investigations of the three major operating systems, including Windows, Linux, and Mac OS Presents the technical details of each operating system, allowing users to find artifacts that might be missed using automated tools Hands-on exercises drive home key concepts covered in the book. Includes discussions of cloud, Internet, and major mobile operating systems such as Android and iOS

Mobile Forensics - Advanced Investigative Strategies Feb 15 2022 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.

Pro iOS Security and Forensics Oct 11 2021 Examine how to keep iOS devices safe in the physical world, including creating company policies for iPhones; assessing and defending against cyber vulnerabilities and attacks; working with preinstalled as well as third party tools; and strategies for keeping your data safe including backing up and screen locks. Managing and maintaining iPhones and iPads in a corporate or other business environment inherently requires strict attention to security concerns. Managers and IT professionals need to know how to create and communicate business policies for using iOS devices in the workplace, and implement security and forensics tools to manage and protect them. The iPhone and iPad are both widely used across businesses from Fortune 500 companies down to garage start-ups. All of these devices must have secure and monitorable ways to connect to the internet, store and transmit data without leaks, and even be managed in the event of a physical theft. *Pro iOS Security and Forensics* covers all these concerns as well as also offering tips for communicating with employees about the policies your business puts in place, why those policies are important, and how to follow them. What You'll Learn Review communicating policies and requirements for use of iPhones Keep your iPhone safe in the physical world Connect to the Internet securely Explore strategies for keeping your data safe including backing up and screen locks Who This Book Is For Managers and IT professionals working in a business environment with iPhones and iPads.

iPhone Forensics Oct 23 2022 "This book is a must for anyone attempting to examine the iPhone. The level of forensic detail is excellent. If only all guides to forensics were written with this clarity!"- Andrew Sheldon, Director of Evidence Talks, computer forensics experts With iPhone use increasing in business networks, IT and security professionals face a serious challenge: these devices store an

enormous amount of information. If your staff conducts business with an iPhone, you need to know how to recover, analyze, and securely destroy sensitive data. iPhone Forensics supplies the knowledge necessary to conduct complete and highly specialized forensic analysis of the iPhone, iPhone 3G, and iPod Touch. This book helps you: Determine what type of data is stored on the device Break v1.x and v2.x passcode-protected iPhones to gain access to the device Build a custom recovery toolkit for the iPhone Interrupt iPhone 3G's "secure wipe" process Conduct data recovery of a v1.x and v2.x iPhone user disk partition, and preserve and recover the entire raw user disk partition Recover deleted voicemail, images, email, and other personal data, using data carving techniques Recover geotagged metadata from camera photos Discover Google map lookups, typing cache, and other data stored on the live file system Extract contact information from the iPhone's database Use different recovery strategies based on case needs And more. iPhone Forensics includes techniques used by more than 200 law enforcement agencies worldwide, and is a must-have for any corporate compliance and disaster recovery plan.

Learning Android Forensics Aug 09 2021 A comprehensive guide to Android forensics, from setting up the workstation to analyzing key artifacts Key Features Get up and running with modern mobile forensic strategies and techniques Analyze the most popular Android applications using free and open source forensic tools Learn malware detection and analysis techniques to investigate mobile cybersecurity incidents Book 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 learn

- Understand Android OS and architecture
- Set up a forensics environment for Android analysis
- Perform logical and physical data extractions
- Learn to recover deleted data
- Explore how to analyze application data
- Identify malware on Android devices
- Analyze Android malware

Who 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.

Hacking and Securing IOS Applications Apr 05 2021 Explores hacking the iPhone and iPad; provides practical information on specific security threats; and presents a discussion of code level countermeasures for implementing security.

Learning IOS Forensics - Second Edition Aug 29 2020 A practical guide to analyzing iOS devices with the latest forensics tools and techniques

About This Book- This book is a comprehensive update to Learning iOS Forensics- This practical book will not only cover the critical aspects of digital forensics, but also mobile forensics- Whether you're a forensic analyst or an iOS developer, there's something in this book for you- The authors, Mattia Epifani and Pasquale Stirparo, are respected members of the community, they go into extensive detail to cover critical topics

Who This Book Is

The book is for digital forensics analysts, incident response analysts, IT security experts, and malware analysts. It would be beneficial if you have basic knowledge of forensics.

What You Will Learn- Identify an iOS device between various models (iPhone, iPad, iPod Touch) and verify the iOS version installed- Crack or bypass the protection passcode chosen by the user- Acquire, at the most detailed level, the content of an iOS Device (physical, advanced logical, or logical)- Recover information from a local backup and eventually crack the backup password- Download back-up information stored on iCloud- Analyze system, user, and third-party information from a device, a backup, or iCloud- Examine malicious apps to identify data and credential thefts

In Detail Mobile forensics is used within many different domains, but is chiefly employed in the field of information security. By understanding common attack vectors and vulnerability points, security professionals can develop measures and examine system architectures to harden security on iOS devices. This book is a complete manual on the identification, acquisition, and analysis of iOS devices, updated to iOS 8 and 9. You will learn by doing, with various case studies. The book covers different devices, operating system, and apps. There is a completely renewed section on third-party apps with a detailed analysis of the most interesting artifacts. By investigating compromised devices, you can work out the identity of the attacker, as well as what was taken, when, why, where, and how the attack was conducted. Also you will learn in detail about data security and application security that can assist forensics investigators and application developers. It will take hands-on approach to solve complex problems of digital forensics as well as mobile forensics.

Style and approach This book provides a step-by-step approach that will guide you through one topic at a time. This intuitive guide focuses on one key topic at a time. Building upon the acquired knowledge in each chapter, we will connect the fundamental theory and practical tips by illustrative visualizations and hands-on code

examples.

- [IPhone And IOS Forensics](#)
- [IOS Forensic Analysis](#)
- [IOS Forensic Analysis](#)
- [IPhone Forensics](#)
- [Practical Mobile Forensics](#)
- [Practical Mobile Forensics](#)
- [IPhone Forensics](#)
- [Learning IOS Forensics](#)
- [IOS Forensics For Investigators](#)
- [Android Forensics](#)
- [Practical Mobile Forensics](#)
- [Practical Forensic Analysis Of Artifacts On IOS And Android Devices](#)
- [Hacking And Securing IOS Applications](#)
- [An In Depth Guide To Mobile Device Forensics](#)
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- [Pro IOS Security And Forensics](#)
- [IOS Forensics Cookbook](#)

- [Learning Android Forensics](#)
- [Advances In Digital Forensics X](#)
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- [Practical Mobile Forensics](#)
- [Data Hiding](#)
- [Contemporary Digital Forensic Investigations Of Cloud And Mobile Applications](#)
- [Mobile Forensic Investigations A Guide To Evidence Collection Analysis And Presentation Second Edition](#)
- [Learning IOS Forensics Second Edition](#)
- [Advances In Digital Forensics VII](#)
- [Operating System Forensics](#)
- [Mobile Forensics Cookbook](#)
- [The Art Of Memory Forensics](#)
- [The Official CompTIA Security Self Paced Study Guide Exam SY0 601](#)
- [Mastering Python Forensics](#)
- [Mac OS X IPod And iPhone Forensic Analysis DVD Toolkit](#)
- [Learn Computer Forensics](#)