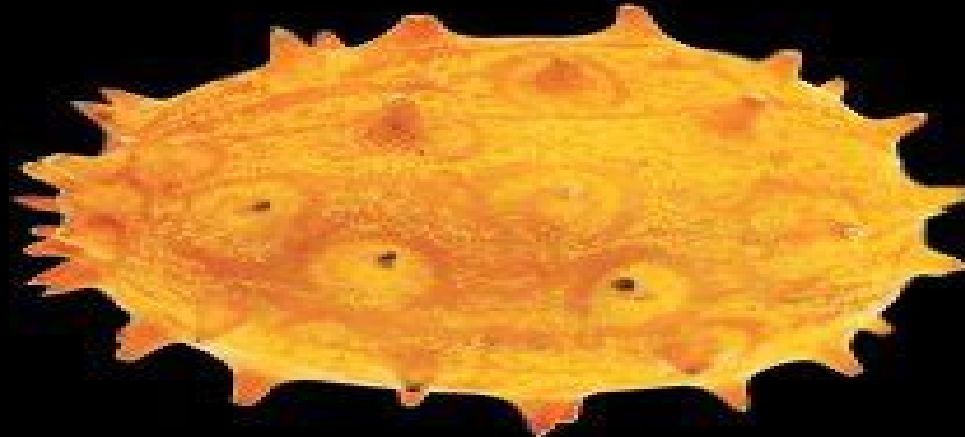


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iOS Forensic Analysis

for iPhone, iPad and iPod touch

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iOS Forensic Analysis Sean Morrissey, Tony Campbell, 2010-12-21 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

iOS Forensic Analysis Sean Morrissey, Tony Campbell, 2011-09-22 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 Rohit Tamma, Oleg Skulkin, Heather Mahalik, Satish Bommisetty, 2020-04-09 Become well versed with forensics for the Android iOS and Windows 10 mobile platforms by learning essential techniques and exploring real life scenarios Key Features Apply advanced forensic techniques to recover deleted data from mobile devices Retrieve and analyze data stored not only on mobile devices but also on the cloud and other connected mediums Use the power of mobile forensics on popular mobile platforms by exploring different tips tricks and techniques Book Description Mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions This updated fourth edition of Practical Mobile Forensics delves into the concepts of mobile forensics and its importance in today s world The book focuses on teaching you the latest forensic techniques to investigate mobile devices across various mobile platforms You will learn forensic techniques for multiple OS versions including iOS 11 to iOS 13 Android 8 to Android 10 and Windows 10 The book then takes you through the latest open source and commercial mobile forensic tools enabling you to analyze and retrieve data effectively From inspecting the device and retrieving data from the cloud through to successfully documenting reports of your investigations you ll explore new techniques while building on your practical knowledge Toward the end you will understand the reverse engineering of applications and ways to identify malware Finally the book guides you through parsing popular third party applications including Facebook and WhatsApp By the end of this book you will be proficient in various mobile forensic techniques to analyze and extract data from mobile devices with the help of open source solutions What you will learn Discover new data extraction data recovery and reverse engineering techniques in mobile forensics Understand iOS Windows and Android security mechanisms Identify sensitive files on every mobile platform Extract data from iOS Android and Windows platforms Understand malware analysis reverse engineering and data analysis of mobile devices Explore various data recovery techniques on all three mobile platforms Who this book is for This book is for forensic examiners with basic experience in mobile forensics or open source solutions for mobile forensics Computer security professionals researchers or anyone looking to gain a deeper understanding

of mobile internals will also find this book useful Some understanding of digital forensic practices will be helpful to grasp the concepts covered in the book more effectively

iPhone and iOS Forensics Andrew Hoog, Katie Strzempka, 2011-07-25
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 Heather Mahalik, Rohit Tamma, Satish Bommisetty, 2016-05-20 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

Cellular Convergence and the Death of Privacy Professor Stephen B.

Wicker,2013-08-21 Cellular technology has always been a surveillance technology but cellular convergence the growing trend for all forms of communication to consolidate onto the cellular handset has dramatically increased the impact of that surveillance In Cellular Convergence and the Death of Privacy Stephen Wicker explores this unprecedented threat to privacy from three distinct but overlapping perspectives the technical the legal and the social Professor Wicker first describes cellular technology and cellular surveillance using language accessible to non specialists He then examines current legislation and Supreme Court jurisprudence that form the framework for discussions about rights in the context of cellular surveillance Lastly he addresses the social impact of surveillance on individual users The story he tells is one of a technology that is changing the face of politics and economics but in ways that remain highly uncertain **Augmented and Virtual**

Reality in Industry 5.0 Richa Goel,Sukanta Kumar Baral,Tapas Mishra,Vishal Jain,2023-06-19 This edited volume collects a series of studies concerning the most recent developments in the industrial applications of augmented and virtual reality

Each chapter outlines the most recent advancements in the theory and applications of augmented and virtual reality to different sectors of technology industry and society The book thus contributes to a study of the interaction between humans and machines in Industry 5.0 *iPhone Forensics* Jonathan Zdziarski,2008-09-12 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 IOS Forensics - Second Edition* Mattia

Epifani,Pasquale Stirparo,2016-09-30 A practical guide to analyzing iOS devices with the latest forensics tools and techniquesAbout 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 For 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

[iOS Forensics 101](#) Rob Botwright, 2024-07 Dive into the world of iOS Forensics with our comprehensive book bundle iOS Forensics 101 Extracting Logical and Physical Data from iPhone iPad and Mac OS This essential collection comprises four meticulously crafted volumes that will elevate your expertise in digital investigations within Apple's ecosystem Book 1 iOS Forensics 101 Introduction to Digital Investigations Begin your journey with a solid foundation in digital forensics Explore the intricacies of iOS devices learn essential methodologies and grasp legal considerations critical to conducting effective investigations From understanding device architecture to navigating forensic challenges this volume prepares you for the complexities ahead Book 2 iOS Forensics 101 Techniques for Extracting Logical Data Unlock the secrets to extracting and analyzing logical data from iPhones iPads and Mac OS devices Discover techniques for accessing iCloud backups examining app data and recovering user generated content With practical insights and hands on guidance master the tools needed to uncover crucial evidence while maintaining forensic integrity Book 3 iOS Forensics 101 Mastering Physical Data Acquisition Take your skills to the next level with advanced methods for acquiring comprehensive physical images of iOS devices Delve into tools like GrayKey Cellebrite UFED and Checkm8 to bypass security measures extract encrypted data and capture

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Practical Mobile Forensics Satish Bommisetty,Rohit Tamma,Heather Mahalik,2014-07-21 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

IOS Forensics Cookbook Bhanu Birani,Mayank Birani,2016-01-29

Mobile Forensics - Advanced Investigative Strategies Oleg Afonin,Vladimir Katalov,2016-09-30 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

iOS 6 Programming Pushing the Limits Rob Napier,Mugunth Kumar,2012-11-20 Learn to build extraordinary apps for iPhone iPad and iPod touch iOS is the hottest development platform around and iOS 6 adds a new and deeper dimension to explore This guide offers serious information for serious programmers who know the basics and are ready to dive into the advanced features of iOS You ll learn to create killer apps for the iPad iPhone and iPod touch including how to maximize performance and make more money from your apps with in app purchases Topics covered include security multitasking running on multiple platforms blocks and functional programming advanced text layout and much more App development for iPhones and iPads is a lucrative and exciting venture books on this topic are steady bestsellers This advanced guide helps experienced developers take full advantage of the latest platform upgrade iOS 6 Provides in depth background on maximizing your apps with Apple s iPhone SDK 6 0 including the major new APIs and building applications for the new iPad Covers keeping control of multitasking increasing income with in app purchases key value observing with Cocoa running on multiple platforms advanced text layout building a Core foundation and more iOS 6 Programming Pushing the Limits gives experienced mobile developers a wealth of knowledge for creating outstanding iPhone and iPad apps on the latest platform

Learning IOS Forensics Mattia Epifani,2015-03-10 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

IOS Mobile Device Anti-forensics Jared Spadea,Utica College,2012 The relatively recent proliferation of mobile devices has resulted in the leap of digital anti forensic tools technologies and techniques from traditional to mobile computing devices Anti forensic methodologies can have a negative if not devastating effect on an investigation due to the fact that evidence residing on a device may not be able to be acquired or the validity of obtained evidence may be called into question Scholarly research into anti forensic techniques for mobile devices is currently lacking especially in regards to iOS devices and this study investigates anti forensic tools and techniques that are available for the iPhone iPad and iPod Touch This paper serves to

expand the current knowledge base of iOS anti forensics and act as a foundation from on which to build Traditional digital anti forensic methods are first examined before discussing various methods that can be used for evidence destruction hiding prevention and counterfeiting on iOS devices Evidence destruction techniques include data deletion such as file or device wiping Evidence hiding can be performed with encryption or cryptography techniques and evidence prevention can be accomplished through the adjustment of certain system or application settings A variety of evidence counterfeiting techniques exist for the falsification or fabrication of data Within each of the anti forensic technique categories a multitude of third party applications are available that have the ability to perform additional or enhanced anti forensic actions and a sampling of these apps are discussed Finally recommendations are provided to help guide future research of mobile anti forensics so that the available tools technologies and techniques may be better mitigated

Core Data for iOS

Tim Isted, Tom Harrington, 2011-05-24 Today virtually every non trivial iPhone and iPad app must manage data quickly smoothly reliably and with minimal impact on the CPU to conserve battery life Core Data Apple s ready made data persistence layer can help you achieve all these goals In Core Data for iOS two leading iOS developers teach you the entire Core Data framework from the ground up Writing for intermediate to advanced iOS developers Tim Isted and Tom Harrington thoroughly explain how Core Data is used on iOS devices introduce each of its primary classes and show how they interact to provide amazing functionality with minimal configuration You ll learn how to store fetch and validate data provide it efficiently to views and much more Isted and Harrington first give you a firm grounding in the technology and then present real world examples They present multiple sample projects as well as a start to finish chapter length case study Coverage includes Understanding Core Data s features classes and interactions Using Core Data in MVC based iOS app development Mapping relational data to object models and building them with Xcode 4 s Data Modeler Working with managed objects and using UITableView to display them Creating predicates to match numbers data and objects Maintaining compatibility across versions of an app s data model Tracking managed object contexts across view controllers Using Core Data s automatic Undo functionality Integrating abstract entities entity inheritance and multiple view controllers into a complete app Optimizing for iOS devices tight memory limits Diagnosing and fixing common Core Data problems Introducing Addison Wesley s new Core Frameworks Series written for experienced iOS developers by world class Mac and iOS developers these are the first comprehensive code rich reference guides to Apple s Core Frameworks

Pro Core Data for iOS

Michael Privat, Robert Warner, 2011-08-06 The power of Core Data allows iOS developers to efficiently store and retrieve application data using familiar object oriented paradigms Pro Core Data for iOS explains both how and why to use Core Data for data storage from simple to advanced techniques Covering common and advanced persistence patterns this book prepares any iOS developer to store and retrieve data accurately and proficiently Lots of iOS development books touch on Core Data taking you through a few mainstream use cases for storing and retrieving data in your iOS applications In Pro Core Data for iOS however we take

you further into Core Data and show you how to leverage the power of this data framework After reading this book you ll be able to answer all of these questions What are all the parts of Core Data and how do they interact How do I create my own custom store Should I use plain NSObject instances or custom classes How do I undo and redo Core Data actions How do I filter sort and aggregate data What is faulting and why should I care Suppose I want to change my data model how do I migrate my users data Pro Core Data for iOS delves into these and other Core Data questions With explanations diagrams code samples and working explanations this book will make you a Core Data pro Practical Mobile Forensics, Heather Mahalik, Satish Bommisetty, Oleg Skulkin, Rohit Tamma, 2018-01-23 Investigate analyze and report iOS Android and Windows devices Key Features Get hands on experience in performing simple to complex mobile forensics techniques Retrieve and analyze data stored not only on mobile devices but also through the cloud and other connected mediums A practical guide to leveraging the power of mobile forensics on popular mobile platforms with lots of tips tricks and caveats Book Description Covering up to date mobile platforms this book will focuses on teaching you the most recent techniques for investigating mobile devices We delve mobile forensics techniques in iOS 9 11 Android 7 8 devices and Windows 10 We will demonstrate the latest open source and commercial mobile forensics tools enabling you to analyze and retrieve data effectively You will learn how to introspect and retrieve data from the cloud and document and prepare reports of your investigations By the end of this book you will have mastered the current operating systems and the relevant techniques to recover data from mobile devices by leveraging open source solutions What you will learn Discover the new techniques in practical mobile forensics Understand the architecture and security mechanisms present in iOS and Android platforms Identify sensitive files on the iOS and Android platforms Set up a forensic environment Extract data from the iOS and Android platforms Recover data on the iOS and Android platforms Understand the forensics of Windows devices Explore various third party application techniques and data recovery techniques Who this book is for If you are a forensics professional and are eager to widen your forensics skill set to mobile forensics then this book is for you Some understanding of digital forensics practices would do wonders **Data-driven iOS Apps for iPad and iPhone** Jesse Feiler, 2010 Provides information on creating a variety of data driven applications for the iPhone iTouch and iPad using standard iOS elements

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