Android Forensic Capability and Evaluation of Extraction Tools

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A Thesis submitted in partial fulfillment of the requirement of Edinburgh Napier University for the Degree of Master of Science in Advanced Security & Digital Forensics

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Yijin Wang

Android Forensic Capability And Evaluation Of Extraction Tools:

The Future of Computing: Ubiquitous Applications and Technologies Neha Kishore, Pankaj Nanglia, Shilpa Gupta, Ashutosh Kumar Dubey, 2024-11-20 The Future of Computing Ubiquitous Applications and Technologies explores the transformative power of ubiquitous computing across diverse fields from healthcare and smart grids to home automation and digital forensics Ubiquitous computing which seamlessly integrates computing into everyday life is reshaping industries and addressing significant challenges such as data security digital payments and IoT optimization This book provides expert insights and practical approaches covering topics such as automated medical imaging federated cloud assessments smart grid security and AI driven control systems Key Features Foundational and advanced concepts of ubiquitous computing across multiple industries Security structures in IoT AI applications and data privacy Real world applications including healthcare automation smart homes and digital forensics Case studies on emerging trends in IoT AIoT and smart grid Ethical and Social Issues in the Information Age Joseph Migga Kizza, 2023-04-17 This textbook examines the ethical social and policy challenges arising from our rapidly and continuously evolving computing technology ranging from the Internet over to the cross platforms consisting of ubiquitous portable and wearable devices to the eagerly anticipated metaverse and how we can responsibly access and use these spaces The text emphasizes the need for a strong ethical framework for all applications of computer science and engineering in our professional and personal life This comprehensive seventh edition features thoroughly revised chapters with new and updated content hardened by the bedrock ethical and moral values Because of the rapidly changing computing and telecommunication ecosystem a new chapter on Ethics and Social Responsibility in the Metaverse has been added The interface between our current universe and the evolving metaverse presents a security quagmire The discussion throughout the book is candid and intended to ignite students interest and participation in class discussions and beyond Topics and features Establishes a philosophical framework and analytical tools for discussing moral theories and problems in ethical relativism Offers pertinent discussions on privacy surveillance employee monitoring biometrics civil liberties harassment the digital divide and discrimination Discusses the security and ethical quagmire in the platforms of the developing metaverse Provides exercises objectives and issues for discussion with every chapter Examines the ethical cultural and economic realities of mobile telecommunications computer social network ecosystems and virtualization technology Reviews issues of property rights responsibility and accountability relating to information technology and software Explores the evolution of electronic crime network security and computer forensics Introduces the new frontiers of ethics virtual reality artificial intelligence and the Internet This extensive textbook reference addresses the latest curricula requirements for understanding the cultural social legal and ethical issues in computer science and related fields and offers invaluable advice for industry professionals wishing to put such principles into practice Scientific Computing and Bioinformatics and Computational Biology Douglas D. Hodson, Michael R.

Grimaila, Hamid R. Arabnia, Leonidas Deligiannidis, Torrey J. Wagner, 2025-04-22 This book constitutes the proceedings of the 22nd International Conference on Scientific Computing and Bioinformatics CSC 2024 and the 25th International Conference on Computational Biology BIOCOMP 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during July 22 to July 25 2024 The proceedings include 25 papers from CSC 2024 which have been selected from a total of 128 submissions and 27 papers from BIOCOMP 2024 that have been selected from 27 submissions The papers have been organized in topical sections as follows Military and defence modeling and simulation scientific computing and applications and bioinformatics and computational biology Engineer Should Know About Cyber Security and Digital Forensics Joanna F. DeFranco, Bob Maley, 2022-12-01 Most organizations place a high priority on keeping data secure but not every organization invests in training its engineers or employees in understanding the security risks involved when using or developing technology Designed for the non security professional What Every Engineer Should Know About Cyber Security and Digital Forensics is an overview of the field of cyber security The Second Edition updates content to address the most recent cyber security concerns and introduces new topics such as business changes and outsourcing It includes new cyber security risks such as Internet of Things and Distributed Networks i e blockchain and adds new sections on strategy based on the OODA observe orient decide act loop in the cycle It also includes an entire chapter on tools used by the professionals in the field Exploring the cyber security topics that every engineer should understand the book discusses network and personal data security cloud and mobile computing preparing for an incident and incident response evidence handling internet usage law and compliance and security forensic certifications Application of the concepts is demonstrated through short case studies of real world incidents chronologically delineating related events The book also discusses certifications and reference manuals in the areas of cyber security and digital forensics By mastering the principles in this volume engineering professionals will not only better understand how to mitigate the risk of security incidents and keep their data secure but also understand how to break into this expanding Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice Management profession Association, Information Resources, 2020-04-03 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

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 Practical Mobile Forensics Rohit Tamma, Oleg Skulkin, Heather of digital forensics practices would do wonders 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 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 learnDiscover 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 platformExtract data from iOS Android and Windows platformsUnderstand malware analysis reverse engineering and data analysis of mobile devices Explore various data recovery techniques on all three mobile platformsWho 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 iOS Forensics 101 Rob Botwright, 101-01-01 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 detailed device images essential for in depth forensic analysis Become proficient in handling complex acquisition scenarios with confidence Book 4 iOS Forensics 101 Expert Analysis and Case Studies Immerse yourself in real world applications and expert analysis through compelling case studies Explore diverse scenarios from cybercrimes to corporate investigations and witness how forensic methodologies translate into actionable intelligence and courtroom ready evidence Gain invaluable insights from seasoned professionals to sharpen your investigative prowess Whether you re a novice starting your journey in digital forensics or a seasoned professional seeking to

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techniques With such large volumes of forensic data being processed different deep learning techniques may be employed Confluence of AI Machine and Deep Learning in Cyber Forensics contains cutting edge research on the latest AI techniques being used to design and build solutions that address prevailing issues in cyber forensics and that will support efficient and effective investigations This book seeks to understand the value of the deep learning algorithm to handle evidence data as well as the usage of neural networks to analyze investigation data Other themes that are explored include machine learning algorithms that allow machines to interact with the evidence deep learning algorithms that can handle evidence acquisition and preservation and techniques in both fields that allow for the analysis of huge amounts of data collected during a forensic investigation This book is ideally intended for forensics experts forensic investigators cyber forensic practitioners researchers academicians and students interested in cyber forensics computer science and engineering information technology and electronics and communication **Computational Forensics** Utpal Garain, Faisal Shafait, 2015-06-26 This book constitutes the refereed post conference proceedings of the 5th and 6th International Workshops on Computational Forensics IWCF 2012 and IWCF 2014 held in Tsukuba Japan in November 2010 and August 2014 The 16 revised full papers and 1 short paper were carefully selected from 34 submissions during a thorough review process The papers are divided into three broad areas namely biometrics document image inspection and applications 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 Android Forensics Andrew Hoog, 2011-06-15 Android Forensics covers an open source mobile device platform based on the Linux 2 6 kernel and managed by the Open Handset Alliance 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

Fundamentals of Network Forensics R.C. Joshi, Emmanuel S. Pilli, 2016-11-25 This timely text reference presents a detailed introduction to the essential aspects of computer network forensics. The book considers not only how to uncover information hidden in email messages web pages and web servers but also what this reveals about the functioning of the Internet and its core protocols. This in turn enables the identification of shortcomings and highlights where improvements can be made for a more secure network. Topics and features provides learning objectives in every chapter and review questions throughout the book to test understanding introduces the basic concepts of network process models network forensics frameworks and network forensics tools discusses various techniques for the acquisition of packets in a network

forensics system network forensics analysis and attribution in network forensics examines a range of advanced topics including botnet smartphone and cloud forensics reviews a number of freely available tools for performing forensic activities

Handbook of Research on Cyber Crime and Information Privacy Cruz-Cunha, Maria Manuela, Mateus-Coelho, Nuno, 2020-08-21 In recent years industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production This dependence has significantly increased the risk of cyber crime and breaches in data security Fortunately research in the area of cyber security and information protection is flourishing however it is the responsibility of industry professionals to keep pace with the current trends within this field The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space It presents novel solutions to securing and preserving digital information through practical examples and case studies While highlighting topics including virus detection surveillance technology and social networks this book is ideally designed for cybersecurity professionals researchers developers practitioners programmers computer scientists academicians security analysts educators and students seeking up to date research on advanced approaches and developments in cyber security and information protection

Big Digital Forensic Data Darren Quick, Kim-Kwang Raymond Choo, 2018-06-12 This book provides an in depth understanding of big data challenges to digital forensic investigations also known as big digital forensic data It also develops the basis of using data mining in big forensic data analysis including data reduction knowledge management intelligence and data mining principles to achieve faster analysis in digital forensic investigations By collecting and assembling a corpus of test data from a range of devices in the real world it outlines a process of big digital forensic data analysis for evidence and intelligence It includes the results of experiments on vast volumes of real digital forensic data The book is a valuable resource for digital forensic practitioners researchers in big data cyber threat hunting and intelligence data mining and other related areas Starting Your Journey to Hacking Mastery: The Critical Skills You Need for Success in the Modern Digital World Rolando Tucker, 2025-03-31 Are you fascinated by the world of cybersecurity Do you dream of becoming a master hacker capable of navigating the digital landscape with confidence and skill This isn t about Hollywood hacking it s about gaining a real understanding of vulnerabilities and how to protect yourself and others This book is your roadmap to building a strong foundation in ethical hacking You ll learn the essential skills techniques and mindset needed to succeed in the ever evolving world of cybersecurity We ll explore the fundamental concepts from networking and cryptography to penetration testing and social engineering Feeling overwhelmed by the sheer volume of information out there We break down complex topics into easy to understand language providing practical examples and hands on exercises You ll gain a clear understanding of how hacking works the tools and techniques used and the legal and ethical considerations This book isn t just about acquiring knowledge it's about developing a hacker's mindset You'll learn to think critically creatively and

strategically to identify vulnerabilities and develop effective solutions Whether you re a complete beginner or have some experience this book will equip you with the skills and knowledge you need to confidently navigate the exciting world of **Information Technology - New Generations** Shahram Latifi, 2018-04-12 This volume presents a collection of peer reviewed scientific articles from the 15th International Conference on Information Technology New Generations held at Las Vegas The collection addresses critical areas of Machine Learning Networking and Wireless Communications Cybersecurity Data Mining Software Engineering High Performance Computing Architectures Computer Cyber Forensics Albert J. Marcella, 2021-09-12 Threat actors be they cyber Vision Health Bioinformatics and Education criminals terrorists hacktivists or disgruntled employees are employing sophisticated attack techniques and anti forensics tools to cover their attacks and breach attempts As emerging and hybrid technologies continue to influence daily business decisions the proactive use of cyber forensics to better assess the risks that the exploitation of these technologies pose to enterprise wide operations is rapidly becoming a strategic business objective This book moves beyond the typical technical approach to discussing cyber forensics processes and procedures Instead the authors examine how cyber forensics can be applied to identifying collecting and examining evidential data from emerging and hybrid technologies while taking steps to proactively manage the influence and impact as well as the policy and governance aspects of these technologies and their effect on business operations A world class team of cyber forensics researchers investigators practitioners and law enforcement professionals have come together to provide the reader with insights and recommendations into the proactive application of cyber forensic methodologies and procedures to both protect data and to identify digital evidence related to the misuse of these data This book is an essential guide for both the technical and non technical executive manager attorney auditor and general practitioner who is seeking an authoritative source on how cyber forensics may be applied to both evidential data collection and to proactively managing today s and tomorrow s emerging and hybrid technologies The book will also serve as a primary or supplemental text in both under and post graduate academic programs addressing information operational and emerging technologies cyber forensics networks cloud computing and cybersecurity

Whispering the Secrets of Language: An Mental Quest through **Android Forensic Capability And Evaluation Of Extraction Tools**

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