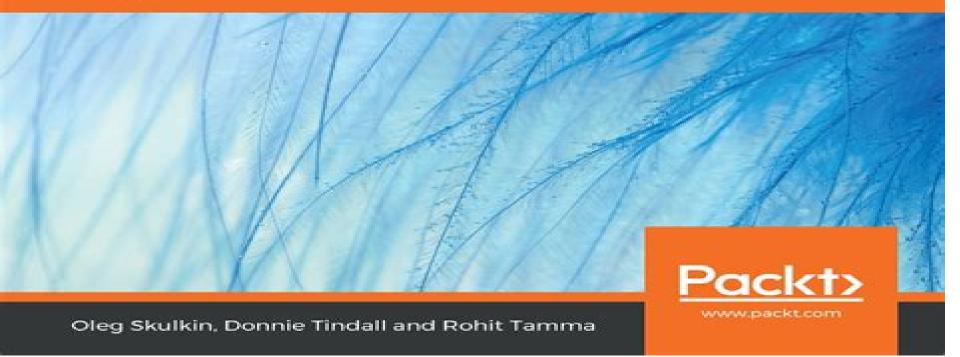
# Learning Android Forensics

Second Edition

Analyze Android devices with the latest forensic tools and techniques



# **Learning Android Forensics**

Heather Mahalik,Rohit Tamma,Satish Bommisetty

#### **Learning Android Forensics:**

Learning Android Forensics Oleg Skulkin, Donnie Tindall, Rohit Tamma, 2018-12-28 A comprehensive guide to Android forensics from setting up the workstation to analyzing key artifacts Key FeaturesGet up and running with modern mobile forensic strategies and techniquesAnalyze the most popular Android applications using free and open source forensic toolsLearn malware detection and analysis techniques to investigate mobile cybersecurity incidentsBook Description Many forensic examiners rely on commercial push button tools to retrieve and analyze data even though there is no tool that does either of these jobs perfectly Learning Android Forensics will introduce you to the most up to date Android platform and its architecture and provide a high level overview of what Android forensics entails You will understand how data is stored on Android devices and how to set up a digital forensic examination environment As you make your way through the chapters you will work through various physical and logical techniques to extract data from devices in order to obtain forensic evidence You will also learn how to recover deleted data and forensically analyze application data with the help of various open source and commercial tools In the concluding chapters you will explore malware analysis so that you ll be able to investigate cybersecurity incidents involving Android malware By the end of this book you will have a complete understanding of the Android forensic process you will have explored open source and commercial forensic tools and will have basic skills of Android malware identification and analysis What you will learnUnderstand Android OS and architectureSet up a forensics environment for Android analysisPerform logical and physical data extractionsLearn to recover deleted dataExplore how to analyze application dataIdentify malware on Android devicesAnalyze Android malwareWho this book is for If you are a forensic analyst or an information security professional wanting to develop your knowledge of Android forensics then this is the book for you Some basic knowledge of the Android mobile platform is expected Android Forensics Rohit Tamma, Donnie Tindall, 2015-04-30 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 **Learning Android Forensics** Donnie Tindall, Rohit Tamma, 2015-04-30

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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 forensicsUnderstand iOS Windows and Android security mechanismsIdentify sensitive files on every mobile platformExtract data from iOS Android and Windows platformsUnderstand malware analysis reverse engineering and data analysis of mobile devicesExplore 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

Learning Android Forensics - Second Edition Oleg Skulkin, Donnie Tindall, Rohit Tamma, 2018 A practical guide to analyzing Android devices with the latest forensics tools and techniques About This Book A step by step approach to forensic analysis complete with key strategies and techniques Analyze the most popular Android applications using free and open source tools Learn concepts like Malware Analysis and Reverse engineering to avoid malware attacks like Android malware and Meltdown 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 What You Will Learn Understand Android OS and architecture Set up a forensics environment for Android analysis Perform logical and physical data extractions Identify malware on Android devices Reverse engineer Android malware In Detail 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 This book will introduce you to the most updated Android platform and its architecture and provide a high level overview of what Android forensics entails You will see how data is stored on Android devices and how to set up a digital forensic examination environment Next you will go through the various physical and logical techniques to extract data from devices to obtain forensic evidence You will also learn how to reverse engineer applications and forensically analyze the data with the help of various open source and commercial tools Finally you will also learn about malware analysis to avoid Malware attacks like Meltdown Android malware and operating system level vulnerabilities By the end of this book you will have a complete understanding of the Android forensic process Downloading

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sections as follows Image Forensics Forensics Analysis spread spectrum analysis traffic analysis and monitoring malware analysis security risk management privacy and security Operating System Forensics Ric Messier, 2015-11-12 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 browers 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 Handbook of Big Data Analytics and Forensics Kim-Kwang Raymond Choo, Ali Dehghantanha, 2021-12-02 This handbook discusses challenges and limitations in existing solutions and presents state of the art advances from both academia and industry in big data analytics and digital forensics. The second chapter comprehensively reviews IoT security privacy and forensics literature focusing on IoT and unmanned aerial vehicles UAVs The authors propose a deep learning based approach to process cloud s log data and mitigate enumeration attacks in the third chapter The fourth chapter proposes a robust fuzzy learning model to protect IT based infrastructure against advanced persistent threat APT campaigns Advanced and fair clustering approach for industrial data which is capable of training with huge volume of data in a close to linear time is introduced in the fifth chapter as well as offering an adaptive deep learning model to detect cyberattacks targeting cyber physical systems CPS covered in the sixth chapter The authors evaluate the performance of unsupervised machine learning for detecting cyberattacks against industrial control systems ICS in chapter 7 and the next chapter presents a robust fuzzy Bayesian approach for ICS s cyber threat hunting This handbook also evaluates the performance of supervised machine learning methods in identifying cyberattacks against CPS The performance of a scalable clustering algorithm for CPS s cyber threat hunting and the usefulness of machine learning algorithms for MacOS malware detection are respectively evaluated. This handbook continues with evaluating the performance of various machine

learning techniques to detect the Internet of Things malware The authors demonstrate how MacOSX cyberattacks can be detected using state of the art machine learning models In order to identify credit card frauds the fifteenth chapter introduces a hybrid model In the sixteenth chapter the editors propose a model that leverages natural language processing techniques for generating a mapping between APT related reports and cyber kill chain A deep learning based approach to detect ransomware is introduced as well as a proposed clustering approach to detect IoT malware in the last two chapters This handbook primarily targets professionals and scientists working in Big Data Digital Forensics Machine Learning Cyber Security Cyber Threat Analytics and Cyber Threat Hunting as a reference book Advanced level students and researchers studying and working in Computer systems Computer networks and Artificial intelligence will also find this reference useful

Windows Forensics Cookbook Oleg Skulkin, Scar de Courcier, 2017-08-04 Maximize the power of Windows Forensics to perform highly effective forensic investigations About This Book Prepare and perform investigations using powerful tools for Windows Collect and validate evidence from suspects and computers and uncover clues that are otherwise difficult Packed with powerful recipes to perform highly effective field investigations Who This Book Is For If you are a forensic analyst or incident response professional who wants to perform computer forensics investigations for the Windows platform and expand your took kit then this book is for you What You Will Learn Understand the challenges of acquiring evidence from Windows systems and overcome them Acquire and analyze Windows memory and drive data with modern forensic tools Extract and analyze data from Windows file systems shadow copies and the registry Understand the main Windows system artifacts and learn how to parse data from them using forensic tools See a forensic analysis of common web browsers mailboxes and instant messenger services Discover how Windows 10 differs from previous versions and how to overcome the specific challenges it presents Create a graphical timeline and visualize data which can then be incorporated into the final report Troubleshoot issues that arise while performing Windows forensics In Detail Windows Forensics Cookbook provides recipes to overcome forensic challenges and helps you carry out effective investigations easily on a Windows platform You will begin with a refresher on digital forensics and evidence acquisition which will help you to understand the challenges faced while acquiring evidence from Windows systems Next you will learn to acquire Windows memory data and analyze Windows systems with modern forensic tools We also cover some more in depth elements of forensic analysis such as how to analyze data from Windows system artifacts parse data from the most commonly used web browsers and email services and effectively report on digital forensic investigations You will see how Windows 10 is different from previous versions and how you can overcome the specific challenges it brings Finally you will learn to troubleshoot issues that arise while performing digital forensic investigations By the end of the book you will be able to carry out forensics investigations efficiently Style and approach This practical guide filled with hands on actionable recipes to detect capture and recover digital artifacts and deliver impeccable forensic outcomes Information Security Hein Venter, Marianne Loock, Marijke Coetzee, Mariki Eloff, Jan Eloff, 2019-01-24 This book constitutes the refereed proceedings of the 17th International Conference on Information Security ISSA 2018 held in Pretoria South Africa in August 2018 The 13 revised full papers presented were carefully reviewed and selected from 40 submissions The papers are dealing with topics such as authentication access control digital cyber forensics cyber security mobile and wireless security privacy preserving protocols authorization trust frameworks security requirements formal security models malware and its mitigation intrusion detection systems social engineering operating systems security browser security denial of service attacks vulnerability management file system security firewalls Web protocol security digital rights management distributed systems security Artificial Intelligence and Blockchain for Future Cybersecurity Applications Yassine Maleh, Youssef Baddi, Mamoun Alazab, Loai Tawalbeh, Imed Romdhani, 2021-04-30 This book presents state of the art research on artificial intelligence and blockchain for future cybersecurity applications. The accepted book chapters covered many themes including artificial intelligence and blockchain challenges models and applications cyber threats and intrusions analysis and detection and many other applications for smart cyber ecosystems It aspires to provide a relevant reference for students researchers engineers and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on artificial intelligence and blockchain for future cybersecurity applications Digital Forensics and Cyber Crime Frank Breitinger, Ibrahim Baggili, 2018-12-29 This book constitutes the refereed proceedings of the 10th International Conference on Digital Forensics and Cyber Crime ICDF2C 2018 held in New Orleans LA USA in September 2018 The 11 reviewed full papers and 1 short paper were selected from 33 submissions and are grouped in topical sections on carving and data hiding android forensic readiness hard drives and digital forensics artefact correlation Mobile Internet Security Ilsun You, Hwankuk Kim, Taek-Young Youn, Francesco Palmieri, Igor Kotenko, 2022-01-22 This book constitutes the refereed proceedings of the 5th International Symposium on Mobile Internet Security MobiSec 2021 held in Jeju Island Republic of Korea in October 2021 The 28 revised full papers presented were carefully reviewed and selected from 66 submissions. 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