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Xuxian Jiang - Yajin Zhou

Android Malware

Android Malware Springerbriefs In Computer Science

**Mark Stamp, Mamoun Alazab, Andrii
Shalaginov**



Android Malware Springerbriefs In Computer Science:

Android Malware Xuxian Jiang,Yajin Zhou,2013-06-13 Mobile devices such as smart phones have achieved computing and networking capabilities comparable to traditional personal computers Their successful consumerization has also become a source of pain for adopting users and organizations In particular the widespread presence of information stealing applications and other types of mobile malware raises substantial security and privacy concerns Android Malware presents a systematic view on state of the art mobile malware that targets the popular Android mobile platform Covering key topics like the Android malware history malware behavior and classification as well as possible defense techniques *Android*

Application Security Mu Zhang,Heng Yin,2016-11-16 This SpringerBrief explains the emerging cyber threats that undermine Android application security It further explores the opportunity to leverage the cutting edge semantics and context aware techniques to defend against such threats including zero day Android malware deep software vulnerabilities privacy breach and insufficient security warnings in app descriptions The authors begin by introducing the background of the field explaining the general operating system programming features and security mechanisms The authors capture the semantic level behavior of mobile applications and use it to reliably detect malware variants and zero day malware Next they propose an automatic patch generation technique to detect and block dangerous information flow A bytecode rewriting technique is used to confine privacy leakage User awareness a key factor of security risks is addressed by automatically translating security related program semantics into natural language descriptions Frequent behavior mining is used to discover and compress common semantics As a result the produced descriptions are security sensitive human understandable and concise By covering the background current threats and future work in this field the brief is suitable for both professionals in industry and advanced level students working in mobile security and applications It is valuable for researchers as well

Mathematical Modeling and Simulation of Systems Serhiy Shkarlet,Anatoliy Morozov,Alexander Palagin,Dmitri Vinnikov,Nikolai Stoianov,Mark Zhelezniak,Volodymyr Kazymyr,2022-02-23 This book contains works on mathematical and simulation modeling of processes in various domains ecology and geographic information systems IT industry and project management The development of complex multicomponent systems requires an increase in accuracy efficiency and adequacy while reducing the cost of their creation The studies presented in the book are useful to specialists who involved in the development of real events models analog management and decision making models production models and software products Scientists can get acquainted with the latest research in various decisions proposed by leading scholars and identify promising directions for solving complex scientific and practical problems The chapters of this book contain the contributions presented on the 16th International Scientific practical Conference MODS June 28 July 01 2021 Chernihiv Ukraine

Modeling and Evaluating Denial of Service Attacks for Wireless and Mobile Applications Zhou Lu,Wenye Wang,Cliff Wang,2015-11-05 This SpringerBrief covers modeling and analysis of Denial of Service attacks in emerging wireless and

mobile applications It uses an application specific methodology to model and evaluate denial of service attacks Three emerging applications are explored multi modal CSMA CA networks time critical networks for the smart grid and smart phone applications The authors define a new performance metric to quantify the benefits of backoff misbehavior and show the impacts of a wide range of backoff mishandling nodes on the network performance and propose a scheme to minimize the delay of time critical message delivery under jamming attacks in smart grid applications An investigation on the resilience of mobile services against malware attacks is included to advance understanding of network vulnerabilities associated with emerging wireless networks and offers instrumental guidance into the security design for future wireless and mobile applications This book is appropriate for students faculty engineers and experts in the technical area of wireless communication mobile networks and cyber security

Critical Infrastructure Protection: Advanced Technologies for Crisis Prevention and Response Tünde Anna Kovács,Igor Fürstner,2025-06-13 This book presents the latest research findings from experts in critical infrastructure protection and management It explores various aspects of both cyber and physical attack scenarios focusing on crisis management and response strategies A significant portion of the work addresses how different critical infrastructure sectors can withstand and recover from attacks with an emphasis on practical solutions and real world applications Several chapters also delve into the human element of crisis management highlighting the psychological and organizational challenges faced during emergencies The book demonstrates how human decision making behaviour and coordination play pivotal roles in the effectiveness of response efforts One of the emerging topics in critical infrastructure protection discussed in the book is using Unmanned Aerial Vehicles UAVs in firefighting and other accident related crisis situations This innovative technology is shown to enhance emergency response capabilities offering new ways to monitor assess and manage crises from a distance Additionally the research includes detailed analyses of ballistic and blast effects offering insights into how these physical threats can impact infrastructure and how to mitigate their effects The book combines cutting edge research with practical insights providing a comprehensive overview of the current trends and challenges in protecting critical infrastructures from a wide range of threats This book also addresses the evolving role of humans in modern warfare particularly in the context of increasing reliance on artificial intelligence As AI technologies reshape military strategies they emphasize the need to balance automation with human oversight ensuring that human security remains central to decision making processes in complex and high stakes environments

The Android Malware Handbook Qian Han,Salvador Mandujano,Sebastian Porst,V.S. Subrahmanian,Sai Deep Tetali,Yanhai Xiong,2023-11-07 Written by machine learning researchers and members of the Android Security team this all star guide tackles the analysis and detection of malware that targets the Android operating system This groundbreaking guide to Android malware distills years of research by machine learning experts in academia and members of Meta and Google s Android Security teams into a comprehensive introduction to detecting common threats facing the Android eco system today Explore the history of Android

malware in the wild since the operating system first launched and then practice static and dynamic approaches to analyzing real malware specimens Next examine machine learning techniques that can be used to detect malicious apps the types of classification models that defenders can implement to achieve these detections and the various malware features that can be used as input to these models Adapt these machine learning strategies to the identification of malware categories like banking trojans ransomware and SMS fraud You ll Dive deep into the source code of real malware Explore the static dynamic and complex features you can extract from malware for analysis Master the machine learning algorithms useful for malware detection Survey the efficacy of machine learning techniques at detecting common Android malware categories The Android Malware Handbook s team of expert authors will guide you through the Android threat landscape and prepare you for the next wave of malware to come

Automatic Malware Analysis Heng Yin,Dawn Song,2012-09-14 Malicious software i e malware has become a severe threat to interconnected computer systems for decades and has caused billions of dollars damages each year A large volume of new malware samples are discovered daily Even worse malware is rapidly evolving becoming more sophisticated and evasive to strike against current malware analysis and defense systems Automatic Malware Analysis presents a virtualized malware analysis framework that addresses common challenges in malware analysis In regards to this new analysis framework a series of analysis techniques for automatic malware analysis is developed These techniques capture intrinsic characteristics of malware and are well suited for dealing with new malware samples and attack mechanisms

Malware Analysis Using Artificial Intelligence and Deep Learning Mark Stamp,Mamoun Alazab,Andrii Shalaginov,2020-12-20 This book is focused on the use of deep learning DL and artificial intelligence AI as tools to advance the fields of malware detection and analysis The individual chapters of the book deal with a wide variety of state of the art AI and DL techniques which are applied to a number of challenging malware related problems DL and AI based approaches to malware detection and analysis are largely data driven and hence minimal expert domain knowledge of malware is needed This book fills a gap between the emerging fields of DL AI and malware analysis It covers a broad range of modern and practical DL and AI techniques including frameworks and development tools enabling the audience to innovate with cutting edge research advancements in a multitude of malware and closely related use cases

Android Malware Detection and Adversarial Methods Weina Niu,Xiaosong Zhang,Ran Yan, Jiacheng Gong,2024-05-23 The rise of Android malware poses a significant threat to users information security and privacy Malicious software can inflict severe harm on users by employing various tactics including deception personal information theft and device control To address this issue both academia and industry are continually engaged in research and development efforts focused on detecting and countering Android malware This book is a comprehensive academic monograph crafted against this backdrop The publication meticulously explores the background methods adversarial approaches and future trends related to Android malware It is organized into four parts the overview of Android malware detection the general Android malware detection method the adversarial method for Android

malware detection and the future trends of Android malware detection Within these sections the book elucidates associated issues principles and highlights notable research By engaging with this book readers will gain not only a global perspective on Android malware detection and adversarial methods but also a detailed understanding of the taxonomy and general methods outlined in each part The publication illustrates both the overarching model and representative academic work facilitating a profound comprehension of Android malware detection

Malware Dimitris Gritzalis, Kim-Kwang Raymond Choo, Constantinos Patsakis, 2024-11-14 This book provides a holistic overview of current state of the art and practice in malware research as well as the challenges of malware research from multiple angles It also provides step by step guides in various practical problems such as unpacking real world malware and dissecting it to collect and perform a forensic analysis Similarly it includes a guide on how to apply state of the art Machine Learning methods to classify malware Acknowledging that the latter is a serious trend in malware one part of the book is devoted to providing the reader with the state of the art in Machine Learning methods in malware classification highlighting the different approaches that are used for e g mobile malware samples and introducing the reader to the challenges that are faced when shifting from a lab to production environment Modern malware is fueling a worldwide underground economy The research for this book is backed by theoretical models that simulate how malware propagates and how the spread could be mitigated The necessary mathematical foundations and probabilistic theoretical models are introduced and practical results are demonstrated to showcase the efficacy of such models in detecting and countering malware It presents an outline of the methods that malware authors use to evade detection This book also provides a thorough overview of the ecosystem its dynamics and the geopolitical implications are introduced The latter are complemented by a legal perspective from the African legislative efforts to allow the reader to understand the human and social impact of malware This book is designed mainly for researchers and advanced level computer science students trying to understand the current landscape in malware as well as applying artificial intelligence and machine learning in malware detection and classification Professionals who are searching for a perspective to streamline the challenges that arise when bringing lab solutions into a production environment and how to timely identify ransomware signals at scale will also want to purchase this book Beyond data protection experts who would like to understand how malware siphons private information experts from law enforcement authorities and the judiciary system who want to keep up with the recent developments will find this book valuable as well

Android Malware Detection using Machine Learning ElMouatez Billah Karbab, Mourad Debbabi, Abdelouahid Derhab, Djedjiga Mouheb, 2021-07-10 The authors develop a malware fingerprinting framework to cover accurate android malware detection and family attribution in this book The authors emphasize the following 1 the scalability over a large malware corpus 2 the resiliency to common obfuscation techniques 3 the portability over different platforms and architectures First the authors propose an approximate fingerprinting technique for android packaging that captures the underlying static structure of the android applications in

the context of bulk and offline detection at the app market level This book proposes a malware clustering framework to perform malware clustering by building and partitioning the similarity network of malicious applications on top of this fingerprinting technique Second the authors propose an approximate fingerprinting technique that leverages dynamic analysis and natural language processing techniques to generate Android malware behavior reports Based on this fingerprinting technique the authors propose a portable malware detection framework employing machine learning classification Third the authors design an automatic framework to produce intelligence about the underlying malicious cyber infrastructures of Android malware The authors then leverage graph analysis techniques to generate relevant intelligence to identify the threat effects of malicious Internet activity associated with android malware The authors elaborate on an effective android malware detection system in the online detection context at the mobile device level It is suitable for deployment on mobile devices using machine learning classification on method call sequences Also it is resilient to common code obfuscation techniques and adaptive to operating systems and malware change overtime using natural language processing and deep learning techniques Researchers working in mobile and network security machine learning and pattern recognition will find this book useful as a reference Advanced level students studying computer science within these topic areas will purchase this book as well

Android Malware and Analysis Ken Dunham,Shane Hartman,Manu Quintans,Jose Andre Morales,Tim Strazzere,2014-10-24 The rapid growth and development of Android based devices has resulted in a wealth of sensitive information on mobile devices that offer minimal malware protection This has created an immediate need for security professionals that understand how to best approach the subject of Android malware threats and analysis In Android Malware and Analysis K

Trustworthy Execution on Mobile Devices Amit Vasudevan,Jonathan M. McCune,James Newsome,2013-08-13 This brief considers the various stakeholders in today s mobile device ecosystem and analyzes why widely deployed hardware security primitives on mobile device platforms are inaccessible to application developers and end users Existing proposals are also evaluated for leveraging such primitives and proves that they can indeed strengthen the security properties available to applications and users without reducing the properties currently enjoyed by OEMs and network carriers Finally this brief makes recommendations for future research that may yield practical and deployable results

Android Apps Security Springer,2012-12-12 **Mobile Device Exploitation Cookbook** Prashant Verma,Akshay Dixit,2016-06-30 Over 40 recipes to master mobile device penetration testing with open source tools About This Book Learn application exploitation for popular mobile platforms Improve the current security level for mobile platforms and applications Discover tricks of the trade with the help of code snippets and screenshots Who This Book Is For This book is intended for mobile security enthusiasts and penetration testers who wish to secure mobile devices to prevent attacks and discover vulnerabilities to protect devices What You Will Learn Install and configure Android SDK and ADB Analyze Android Permission Model using ADB and bypass Android Lock Screen Protection Set up the iOS Development

Environment Xcode and iOS Simulator Create a Simple Android app and iOS app and run it in Emulator and Simulator respectively Set up the Android and iOS Pentesting Environment Explore mobile malware reverse engineering and code your own malware Audit Android and iOS apps using static and dynamic analysis Examine iOS App Data storage and Keychain security vulnerabilities Set up the Wireless Pentesting Lab for Mobile Devices Configure traffic interception with Android and intercept Traffic using Burp Suite and Wireshark Attack mobile applications by playing around with traffic and SSL certificates Set up the Blackberry and Windows Phone Development Environment and Simulator Setting up the Blackberry and Windows Phone Pentesting Environment Steal data from Blackberry and Windows phones applications In Detail Mobile attacks are on the rise We are adapting ourselves to new and improved smartphones gadgets and their accessories and with this network of smart things come bigger risks Threat exposure increases and the possibility of data losses increase Exploitations of mobile devices are significant sources of such attacks Mobile devices come with different platforms such as Android and iOS Each platform has its own feature set programming language and a different set of tools This means that each platform has different exploitation tricks different malware and requires a unique approach in regards to forensics or penetration testing Device exploitation is a broad subject which is widely discussed equally explored by both Whitehats and Blackhats This cookbook recipes take you through a wide variety of exploitation techniques across popular mobile platforms The journey starts with an introduction to basic exploits on mobile platforms and reverse engineering for Android and iOS platforms Setup and use Android and iOS SDKs and the Pentesting environment Understand more about basic malware attacks and learn how the malware are coded Further perform security testing of Android and iOS applications and audit mobile applications via static and dynamic analysis Moving further you ll get introduced to mobile device forensics Attack mobile application traffic and overcome SSL before moving on to penetration testing and exploitation The book concludes with the basics of platforms and exploit tricks on BlackBerry and Windows Phone By the end of the book you will be able to use variety of exploitation techniques across popular mobile platforms with stress on Android and iOS Style and approach This is a hands on recipe guide that walks you through different aspects of mobile device exploitation and securing your mobile devices against vulnerabilities Recipes are packed with useful code snippets and screenshots

Android Apps Security Sheran Gunasekera, 2012-12-03 Android Apps Security provides guiding principles for how to best design and develop Android apps with security in mind It explores concepts that can be used to secure apps and how developers can use and incorporate these security features into their apps This book will provide developers with the information they need to design useful high performing and secure apps that expose end users to as little risk as possible Overview of Android OS versions features architecture and security Detailed examination of areas where attacks on applications can take place and what controls should be implemented to protect private user data In depth guide to data encryption authentication techniques enterprise security and applied real world examples of these concepts

Detection of Intrusions and

Malware, and Vulnerability Assessment Leyla Bilge,Lorenzo Cavallaro,Giancarlo Pellegrino,Nuno Neves,2021-07-09 This book constitutes the proceedings of the 18th International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2021 held virtually in July 2021 The 18 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 65 submissions DIMVA serves as a premier forum for advancing the state of the art in intrusion detection malware detection and vulnerability assessment Each year DIMVA brings together international experts from academia industry and government to present and discuss novel research in these areas Chapter SPECULARIZER Detecting Speculative Execution Attacks via Performance Tracing is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) Mobile Authentication Markus

Jakobsson,2012-08-21 Mobile Authentication Problems and Solutions looks at human to machine authentication with a keen focus on the mobile scenario Human to machine authentication is a startlingly complex issue In the old days of computer security before 2000 the human component was all but disregarded It was either assumed that people should and would be able to follow instructions or that end users were hopeless and would always make mistakes The truth of course is somewhere in between which is exactly what makes this topic so enticing We cannot make progress with human to machine authentication without understanding both humans and machines Mobile security is not simply security ported to a handset Handsets have different constraints than traditional computers and are used in a different way Text entry is more frustrating and therefore it is tempting to use shorter and less complex passwords It is also harder to detect spoofing We need to design with this in mind We also need to determine how exactly to integrate biometric readers to reap the maximum benefits from them This book addresses all of these issues and more **Examining Application Components to Reveal Android**

Malware John B. Guptill (1ST LT, USAF),2013 *Cyber Malware* Iman Almomani,Leandros A. Maglaras,Mohamed Amine Ferrag,Nick Ayres,2023-11-08 This book provides the foundational aspects of malware attack vectors and appropriate defense mechanisms against malware The book equips readers with the necessary knowledge and techniques to successfully lower the risk against emergent malware attacks Topics cover protections against malware using machine learning algorithms Blockchain and AI technologies smart AI based applications automated detection based AI tools forensics tools and much more The authors discuss theoretical technical and practical issues related to cyber malware attacks and defense making it ideal reading material for students researchers and developers

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