

VU UNIVERSITY AMSTERDAM
FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCE

EXTENDED & WEB TECHNOLOGIES
MASTER THESIS

Dynamic Analysis of Android Malware

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Dynamic Analysis Of Android Malware Tracedroid

DP Hallahan



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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* Ken Dunham renowned global malware expert and author teams up with international experts to document the best tools and tactics available for analyzing Android malware The book covers both methods of malware analysis dynamic and static This tactical and practical book shows you how to use dynamic malware analysis to check the behavior of an application malware as it has been executed in the system It also describes how you can apply static analysis to break apart the application malware using reverse engineering tools and techniques to recreate the actual code and algorithms used The book presents the insights of experts in the field who have already sized up the best tools tactics and procedures for recognizing and analyzing Android malware threats quickly and effectively You also get access to an online library of tools that supplies what you will need to begin your own analysis of Android malware threats Tools available on the book's site include updated information tutorials code scripts and author assistance This is not a book on Android OS fuzz testing or social engineering Instead it is about the best ways to analyze and tear apart Android malware threats After reading the book you will be able to immediately implement the tools and tactics covered to identify and analyze the latest evolution of Android threats Updated information tutorials a private forum code scripts tools and author assistance are available at AndroidRisk.com for first time owners of the book

Wireless Algorithms, Systems, and Applications Lei Wang, Michael Segal, Jenhui Chen, Tie Qiu, 2022-11-17 The three volume set constitutes the proceedings of the 17th International Conference on Wireless Algorithms Systems and Applications WASA 2022 which was held during November 24th 26th 2022 The conference took place in Dalian China The 95 full and 62 short papers presented in these proceedings were carefully reviewed and selected from 265 submissions The contributions in cyber physical systems including intelligent transportation systems and smart healthcare systems security and privacy topology control and coverage energy efficient algorithms systems and protocol design

Research in Attacks, Intrusions, and Defenses Herbert Bos, Fabian Monrose, Gregory Blanc, 2015-10-26 This book constitutes the refereed proceedings of the 18th International Symposium on Research in Attacks Intrusions and Defenses RAID 2015 held in Kyoto Japan in November 2015 The 28 full papers were carefully reviewed and selected from 119 submissions This symposium brings together leading researchers and practitioners from academia government and industry to discuss novel security problems solutions and technologies related to intrusion detection attacks and defenses

Financial Cryptography and Data Security Jens Grossklags, Bart Preneel, 2017-05-17 This book constitutes the thoroughly refereed post conference proceedings of the 20th International Conference on Financial

Cryptography and Data Security FC 2016 held in Christ church Barbados in February 2016 The 27 revised full papers and 9 short papers were carefully selected and reviewed from 137 full papers submissions The papers are grouped in the following topical sections fraud and deception payments auctions and e voting multiparty computation mobile malware social interaction and policy cryptanalysis surveillance and anonymity Web security and data privacy Bitcoin mining cryptographic protocols payment use and abuse

Digital Forensic Investigation of Internet of Things (IoT) Devices Reza

Montasari, Hamid Jahankhani, Richard Hill, Simon Parkinson, 2020-12-09 This book provides a valuable reference for digital forensics practitioners and cyber security experts operating in various fields of law enforcement incident response and commerce It is also aimed at researchers seeking to obtain a more profound knowledge of Digital Forensics and Cybercrime Furthermore the book is an exceptional advanced text for PhD and Master degree programmes in Digital Forensics and Cyber Security Each chapter of this book is written by an internationally renowned expert who has extensive experience in law enforcement industry and academia The increasing popularity in the use of IoT devices for criminal activities means that there is a maturing discipline and industry around IoT forensics As technology becomes cheaper and easier to deploy in an increased number of discrete everyday objects scope for the automated creation of personalised digital footprints becomes greater Devices which are presently included within the Internet of Things IoT umbrella have a massive potential to enable and shape the way that humans interact and achieve objectives These also forge a trail of data that can be used to triangulate and identify individuals and their actions As such interest and developments in autonomous vehicles unmanned drones and smart home appliances are creating unprecedented opportunities for the research communities to investigate the production and evaluation of evidence through the discipline of digital forensics

Cyber Security and Digital Forensics Kavita

Khanna, Vania Vieira Estrela, Joel José Puga Coelho Rodrigues, 2021-10-01 This book features high quality research papers presented at the International Conference on Applications and Techniques in Cyber Security and Digital Forensics ICCSDF 2021 held at The NorthCap University Gurugram Haryana India during April 3 4 2021 This book discusses the topics ranging from information security to cryptography mobile application attacks to digital forensics and from cyber security to blockchain The goal of the book is to provide 360 degree view of cybersecurity to the readers which include cyber security issues threats vulnerabilities novel idea latest technique and technology and mitigation of threats and attacks along with demonstration of practical applications This book also highlights the latest development challenges methodologies as well as other emerging areas in this field It brings current understanding of common Web vulnerabilities while maintaining awareness and knowledge of contemporary standards practices procedures and methods of Open Web Application Security Project It also expounds how to recover information after a cybercrime

Mobile Internet Security Ilsun You, Hwankuk

Kim, Pelin Angin, 2023-07-19 This book constitutes the refereed proceedings of the 6th International Conference on Mobile Internet Security MobiSec 2022 held in Jeju South Korea in December 15 17 2022 The 24 full papers included in this book

were carefully reviewed and selected from 60 submissions They were organized in topical sections as follows 5G advanced and 6G security AI for security cryptography and data security cyber security and IoT application and blockchain security

Advances in Computers Suyel Namasudra,2020-05-22 Advances in Computers Volume 119 presents innovations in computer hardware software theory design and applications with this updated volume including new chapters on Fast Execution of RDF Queries Using Apache Hadoop A Study of DVFS Methodologies for Multicore Systems with Islanding Feature Effectiveness of State of the art Dynamic Analysis Techniques in Identifying Diverse Android Malware and Future Enhancements Eyeing the Patterns Data Visualization Using Doubly Seriated Color Heatmaps Eigenvideo for Video Indexing Contains novel subject matter that is relevant to computer science Includes the expertise of contributing authors Presents an easy to comprehend writing style

Adaptive Mobile Computing Mauro Migliardi,Alessio Merlo,Sherenaz Al-HajBaddar,2017-08-14 Adaptive Mobile Computing Advances in Processing Mobile Data Sets explores the latest advancements in producing processing and securing mobile data sets The book provides the elements needed to deepen understanding of this trend which over the last decade has seen exponential growth in the number and capabilities of mobile devices The pervasiveness sensing capabilities and computational power of mobile devices have turned them into a fundamental instrument in everyday life for a large part of the human population This fact makes mobile devices an incredibly rich source of data about the dynamics of human behavior a pervasive wireless sensors network with substantial computational power and an extremely appealing target for a new generation of threats Offers a coherent and realistic image of today s architectures techniques protocols components orchestration choreography and development related to mobile computing Explains state of the art technological solutions for the main issues hindering the development of next generation pervasive systems including supporting components for collecting data intelligently handling resource and data management accounting for fault tolerance security monitoring and control addressing the relation with the Internet of Things and Big Data and depicting applications for pervasive context aware processing Presents the benefits of mobile computing and the development process of scientific and commercial applications and platforms to support them Familiarizes readers with the concepts and technologies that are successfully used in the implementation of pervasive ubiquitous systems

A Step Towards Society 5.0 Shahnawaz Khan,Thirunavukkarasu K.,Ayman AlDmour,Salam Salameh Shreem,2021-11-28 This book serves the need for developing an insight and understanding of the cutting edge innovation in Cloud technology It provides an understanding of cutting edge innovations paradigms and security by using real life applications case studies and examples This book provides a holistic view of cloud technology theories practices and future applications with real life examples It comprehensively explains cloud technology design principles development trends maintaining state of the art cloud computing and software services It describes how cloud technology can transform the operating contexts of business enterprises It exemplifies the potential of cloud computing for next generation computational excellence and the role it plays

as a key driver for the 4th industrial revolution in Industrial Engineering and a key driver for manufacturing industries Researchers academicians postgraduates and industry specialists will find this book of interest Science of Cyber Security Chunhua Su,Kouichi Sakurai,Feng Liu,2022-09-29 This book constitutes the proceedings of the 4th International Conference on Science of Cyber Security SciSec 2022 held in Matsu Japan in August 2022 The 36 full papers presented in this volume were carefully reviewed and selected from 88 submissions The papers are organized in the following topical sections blockchain and applications cryptography and applications network security cyber physical system malware mobile system security system and web security security in financial industry social engineering and personalized security privacy and anonymity **E-Business and Telecommunications** Mohammad S. Obaidat,2017-10-26 This book constitutes the refereed proceedings of the 13th International Joint Conference on E Business and Telecommunications ICETE 2016 held in Lisbon Portugal in July 2016 ICETE is a joint international conference integrating four major areas of knowledge that are divided into six corresponding conferences International Conference on Data Communication Networking DCNET International Conference on E Business ICE B International Conference on Optical Communication Systems OPTICS International Conference on Security and Cryptography SECRYPT International Conference on Signal Processing and Multimedia SIGMAP International Conference on Wireless Information Systems WINSYS The 20 full papers presented together with an invited paper in this volume were carefully reviewed and selected from 241 submissions The papers cover the following key areas of e business and telecommunications data communication networking e business optical communication systems security and cryptography signal processing and multimedia applications wireless networks and mobile systems *Information Science and Applications 2017* Kuinam Kim,Nikolai Joukov,2017-03-16 This book contains selected papers from the 8th International Conference on Information Science and Applications ICISA 2017 and provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology It explores how information science is core to most current research industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing Networks and Information Systems Multimedia and Visualization Middleware and Operating Systems Security and Privacy Data Mining and Artificial Intelligence Software Engineering and Web Technology The proceedings introduce the most recent information technology and ideas applications and problems related to technology convergence illustrated through case studies and reviews converging existing security techniques Through this volume readers will gain an understanding of the current state of the art information strategies and technologies of convergence security The intended readerships are researchers in academia industry and other research institutes focusing on information science and technology *Targeted Dynamic Analysis for Android Malware* Michelle Yan Yi Wong,2015 *Improving the Effectiveness of Automatic Dynamic Android Malware Analysis* □□□,2013 *The Android Malware Handbook* Qian Han,Salvador Mandujano,Sebastian Porst,V.S. Subrahmanian,Sai Deep Tetali,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 *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* Ken Dunham renowned global malware expert and author teams up with international experts to document the best tools and tactics available for analyzing Android malware The book covers both methods of malware analysis dynamic and static This tactical and practical book shows you how to use to use dynamic malware analysis to check the behavior of an application malware as it has been executed in the system It also describes how you can apply static analysis to break apart the application malware using reverse engineering tools and techniques to recreate the actual code and algorithms used The book presents the insights of experts in the field who have already sized up the best tools tactics and procedures for recognizing and analyzing Android malware threats quickly and effectively You also get access to an online library of tools that supplies what you will need to begin your own analysis of Android malware threats Tools available on the book s site include updated information tutorials code scripts and author assistance This is not a book on Android OS fuzz testing or social engineering Instead it is about the best ways to analyze and tear apart Android malware threats After reading the book you will be able to immediately implement the tools and tactics covered to identify and analyze the latest evolution of Android threats Updated information tutorials a private forum code scripts tools and author assistance are available at AndroidRisk.com for first time owners of the book **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

Static Analysis for Android Malware Detection Using Document Vectors Utkarsh Raghav, 2023 The prevalence of smart mobile devices has led to an upsurge in malware that targets mobile platforms The dominant market player in the sector Android OS has been a favourite target for malicious actors Various feature engineering techniques are used in the current machine learning and deep learning approaches for Android malware detection In order to correctly identify dependable features feature engineering for Android malware detection using multiple AI algorithms requires a particular level of expertise in Android malware and the platform itself The majority of these engineered features are initially extracted by applying different static and dynamic analysis approaches These allow researchers to obtain various types of information from Android application packages APKs such as required permissions opcode sequences and control flow graphs to name a few This information is used as is or in vectorised form for training supervised learning models Researchers have also applied Natural Language Processing techniques to the features extracted from APKs In order to automatically create feature vectors that can describe the data included in Android manifests and Dalvik executable files inside an APK this study focused on developing a novel method that uses static analysis and the NLP technique of document embeddings We designed a system that takes Android APK files as input documents and generates the feature embeddings This system removes the need for manual identification extraction of

features We use these embeddings to train various Android Malware detection models to experimentally evaluate the effectiveness of these automatically generated features The experiments were done by training and evaluating 5 different supervised learning models We did our experiments on APKs from two well known datasets DREBIN and AndroZoo We trained and validated our models with 4000 files training set We had kept separate 700 files test set which were not used during training and validation We used our trained models to predict the classes of the unseen file embeddings from the test set The automatically generated features allowed training of robust detection models The Android malware detection models performed best with Android manifest file embeddings concatenated with Dalvik executable file embeddings with some of the models achieving Precision Recall and Accuracy values above 99% consistently during development and over 97% against unseen file embeddings The prediction accuracy of the detection model trained on our automatically generated features was equivalent to the accuracy achieved by one of the most cited research works known as DREBIN which was 94% We also provided a simple method to directly utilise the file present in Android APK to create feature embeddings without scouring through Android application files to identify reliable features The resulting system can be further improved against new emerging threats and be better trained by just gathering more samples

Android Malware Detection Through Permission and App Component Analysis Using Machine Learning Algorithms Keyur Milind Kulkarni, 2018

Improvement in technology has inevitably altered the tactic of criminals to thievery In recent times information is the real commodity and it is thus subject to theft as any other possessions cryptocurrency credit card numbers and illegal digital material are on the top If globally available platforms for smartphones are considered the Android open source platform AOSP emerges as a prevailing contributor to the market and its popularity continues to intensify Whilst it is beneficiary for users this development simultaneously makes a prolific environment for exploitation by immoral developers who create malware or reuse software illegitimately acquired by reverse engineering Android malware analysis techniques are broadly categorized into static and dynamic analysis Many researchers have also used feature based learning to build and sustain working security solutions Although Android has its base set of permissions in place to protect the device and resources it does not provide strong enough security framework to defend against attacks This thesis presents several contributions in the domain of security of Android applications and the data within these applications First a brief survey of threats vulnerability and security analysis tools for the AOSP is presented Second we develop and use a genre extraction algorithm for Android applications to check the availability of those applications in Google Play Store Third an algorithm for extracting unclaimed permissions is proposed which will give a set of unnecessary permissions for applications under examination Finally machine learning aided approaches for analysis of Android malware were adopted Features including permissions APIs content providers broadcast receivers and services are extracted from benign 2 000 and malware 5 560 applications and examined for evaluation We create feature vector combinations using these features and feed these vectors to various classifiers Based on the evaluation

metrics of classifiers we scrutinize classifier performance with respect to specific feature combination Classifiers such as SVM Logistic Regression and Random Forests spectacle a good performance whilst the dataset of combination of permissions and APIs records the maximum accuracy for Logistic Regression

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