

Android Security Internals

*An In-Depth Guide to
Android's Security Architecture*



Nikolay Elenkov

Foreword by Jon Sawyer



Android Security Internals An In Depth Guide To Androids Security Architecture

Annelies Wilder-Smith



Android Security Internals An In Depth Guide To Androids Security Architecture:

Android Security Internals Nikolay Elenkov, 2014-10-14 There are more than one billion Android devices in use today each one a potential target Unfortunately many fundamental Android security features have been little more than a black box to all but the most elite security professionals until now In *Android Security Internals* top Android security expert Nikolay Elenkov takes us under the hood of the Android security system Elenkov describes Android security architecture from the bottom up delving into the implementation of major security related components and subsystems like Binder IPC permissions cryptographic providers and device administration You'll learn How Android permissions are declared used and enforced How Android manages application packages and employs code signing to verify their authenticity How Android implements the Java Cryptography Architecture JCA and Java Secure Socket Extension JSSE frameworks About Android's credential storage system and APIs which let applications store cryptographic keys securely About the online account management framework and how Google accounts integrate with Android About the implementation of verified boot disk encryption lockscreen and other device security features How Android's bootloader and recovery OS are used to perform full system updates and how to obtain root access With its unprecedented level of depth and detail *Android Security Internals* is a must have for any security minded Android developer

Smart Cards, Tokens, Security and Applications Keith Mayes, Konstantinos Markantonakis, 2017-05-18 This book provides a broad overview of the many card systems and solutions that are in practical use today This new edition adds content on RFIDs embedded security attacks and countermeasures security evaluation javacards banking or payment cards identity cards and passports mobile systems security and security management A step by step approach educates the reader in card types production operating systems commercial applications new technologies security design attacks application development deployment and lifecycle management By the end of the book the reader should be able to play an educated role in a smart card related project even to programming a card application This book is designed as a textbook for graduate level students in computer science It is also an invaluable post graduate level reference for professionals and researchers This volume offers insight into benefits and pitfalls of diverse industry government financial and logistics aspects while providing a sufficient level of technical detail to support technologists information security specialists engineers and researchers

Hacking Exposed 7 Stuart McClure, Joel Scambray, George Kurtz, 2012-07-23 The latest tactics for thwarting digital attacks Our new reality is zero day APT and state sponsored attacks Today more than ever security professionals need to get into the hacker's mind methods and toolbox to successfully deter such relentless assaults This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats Brett Wahlin CSO Sony Network Entertainment Stop taking punches let's change the game it's time for a paradigm shift in the way we secure our networks and *Hacking Exposed 7* is the playbook for bringing pain to our adversaries Shawn Henry former Executive Assistant Director FBI Bolster your system's security and defeat the

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Android Hacker's Handbook Joshua J. Drake,Zach Lanier,Collin Mulliner,Pau Oliva Fora,Stephen A. Ridley,Georg Wicherski,2014-03-26 The first comprehensive guide to discovering and preventing attacks on the Android OS As the Android operating system continues to increase its share of the smartphone market smartphone hacking remains a growing threat Written by experts who rank among the world s foremost Android security researchers this book presents vulnerability discovery analysis and exploitation tools for the good guys Following a detailed explanation of how the Android OS works and its overall security architecture the authors examine how vulnerabilities can be discovered and exploits developed for various system components preparing you to defend against them If you are a mobile device administrator security researcher Android app developer or consultant responsible for evaluating Android security you will find this guide is essential to your toolbox A crack team of leading Android security researchers explain Android security risks security design and architecture rooting fuzz testing and vulnerability analysis Covers Android application building blocks and security as well as debugging and auditing Android apps Prepares mobile device administrators security researchers Android app developers and security consultants to defend Android systems against attack Android Hacker s Handbook is the first comprehensive resource for IT professionals charged with smartphone security

Android Security Cookbook Keith Makan,Scott Alexander-Bown,2013-12-23 Android Security Cookbook breaks down and enumerates the processes used to exploit and remediate Android app security vulnerabilities in the form of detailed recipes and walkthroughs Android Security Cookbook is aimed at anyone who is curious about Android app security and wants to be able to take the necessary practical measures to protect themselves this means that Android application developers security researchers and analysts penetration testers and generally any CIO CTO or IT managers facing the impending onslaught of mobile devices in the business environment will benefit from reading this book

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 *Android Software Internals Quick Reference* James Stevenson,2021-03-11 Use this handy field guide as a quick reference book and cheat sheet for all of the techniques you use or reference day to day Covering up to Android 11 this Android Java programming reference guide focuses on non UI elements with a security focus You won t see Android UI development nor will you see low level C or kernel techniques Instead this book focuses on easily digestible useful and interesting techniques in Java and the Android system This reference guide was created out of the need for myself to jot down all the useful techniques I commonly reached for and so I m now sharing these techniques with you whether you are an Android internals software engineer or security researcher What You Will Learn Discover the differences between and how to access application names package names IDs and unique identifiers in Android Quickly reference common techniques such as storage the activity lifecycle and permissions Debug using the Android shell Work with Android s obfuscation and encryption capabilities Extract and decompile Android applications Carry out Android reflection and dex class loading Who This Book Is For Programmers developers and admins with at least prior Android and Java experience **Android Security** Anmol Misra,Abhishek Dubey,2016 Android Security Attacks and Defenses is for anyone interested in learning about the strengths and weaknesses of the Android platform from a security perspective Starting with an introduction to Android OS architecture and application programming it will help readers get up to speed on the basics of the Android platform and its security issues Explaining the Android security model and architecture the book describes Android permissions including Manifest permissions to help readers analyze applications and understand permission requirements It also rates the Android permissions based on security implications and covers JEB Decompiler The authors describe how to write Android bots in JAVA and how to use reversing tools to decompile any Android application They also cover the Android file system including import directories and files so readers can perform basic forensic analysis on file system and SD cards The book includes access to a wealth of resources on its website [www androidinsecurity com](http://www.androidinsecurity.com) It explains how to crack SecureApp apk discussed in the text and also makes the application available on its site The book includes coverage of advanced topics such as reverse engineering and forensics mobile device pen testing methodology malware analysis secure coding and hardening guidelines for Android It also explains how to analyze security implications for Android mobile devices applications and incorporate them into enterprise SDLC processes The book s site includes a resource section where readers can access downloads for applications tools created by users and sample applications created by the authors under the Resource section Readers can easily download the files and use them in conjunction with the text wherever needed Visit [www androidinsecurity com](http://www.androidinsecurity.com) for more information **Android Security**

Essentials Godfrey Nolan, 2013 3 Hours of Video Instruction Android applications make use of advanced hardware and software as well as local and server data exposed through the platform to bring innovation and value to consumers To protect that value the platform must offer an application environment that ensures the security of users data applications the device and the network Securing an open platform requires a robust security architecture and rigorous security programs as well as developers who are aware of the security issues that may come up Android Security Essentials LiveLessons alerts developers to the security issues that can arise when using the Android platform and guides them through solutions Godfrey Nolan covers best practices for Android security by examining common security scenarios Each lesson begins by presenting the concept behind the security problem at hand with snippets of code introduced as the problem is explored This is then followed by examination of code or demonstration of tools showing you how to implement the concepts presented The source code repository for this LiveLesson can be found at <https://github.com/godfreynolan/LiveLessons> Godfrey Nolan is founder and president of RIIS a mobile development firm in the Detroit metro area Godfrey has spoken at AnDevCon JavaOne ASP Connections VSLive CodeMash Code PaLOU 1DevDay and many local Java and NET user groups on a wide range of topics including continuous integration executable requirements and mobile security Skill Level All levels What You Will Learn How to write secure Android apps using the OWASP top 10 as a guideline How to do an audit your own Android app Who Should Take This Course Android developers Security professionals Android project managers CIOs Course Requirements Basic understanding of functionality of Android phones some Java experience would be helpful but not essential Lesson 1 Android Security Basics This lesson explains the problems with Android from a security perspective We dive right in and show how to reverse engineer an Android APK to view its source as well as backup an APK's data to see what runtime customer information is exposed The lesson also introduces the OWASP Mobile top 10 risks from the Open Web Application Security Project which we cover in detail in each lesson Lesson 2 Dealing with Insecure Data Lesson 2 walks you through where runtime data is stored on the Android device how to use Andro

Android Security : A Practical Guide to Testing Apps & Securing Devices J. Thomas, Android Hacking A Practical Guide to Testing Apps Securing Devices by J Thomas is a hands on guide for cybersecurity enthusiasts penetration testers and developers who want to understand the offensive and defensive aspects of Android security This book takes you from the basics of Android architecture to advanced techniques of penetration testing and securing applications With practical labs real world case studies and step by step methods it prepares you to tackle modern Android security challenges

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