

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

J. Thomas



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

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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

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