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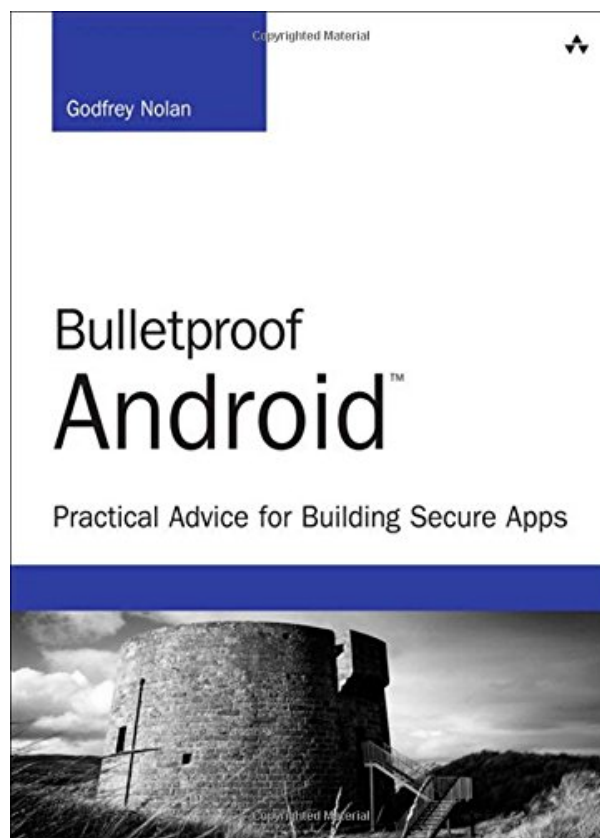
Godfrey Nolan

Bulletproof Android™

Practical Advice for Building Secure Apps

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Bulletproof Android: Practical Advice For Building Secure Apps (Developer's Library) By Godfrey Nolan. In undertaking this life, numerous people consistently attempt to do as well as obtain the most effective. New knowledge, experience, lesson, and everything that could enhance the life will be done. Nonetheless, numerous individuals occasionally really feel puzzled to get those things. Really feeling the limited of experience and also resources to be much better is among the does not have to have. Nonetheless, there is a quite straightforward point that could be done. This is exactly what your educator always manoeuvres you to do this one. Yeah, reading is the solution. Reading a book as this Bulletproof Android: Practical Advice For Building Secure Apps (Developer's Library) By Godfrey Nolan and other recommendations could enrich your life high quality. How can it be?

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Battle-Tested Best Practices for Securing Android Apps throughout the Development Lifecycle

Android's immense popularity has made it today's #1 target for attack: high-profile victims include eHarmony, Facebook, and Delta Airlines, just to name a few. Today, every Android app needs to resist aggressive attacks and protect data, and in Bulletproof Android™, Godfrey Nolan shows you how.

Unlike "black hat/gray hat" books, which focus on breaking code, this guide brings together complete best practices for hardening code throughout the entire development lifecycle. Using detailed examples from hundreds of apps he has personally audited, Nolan identifies common "anti-patterns" that expose apps to attack, and then demonstrates more secure solutions.

Nolan covers authentication, networking, databases, server attacks, libraries, hardware, and more. He illuminates each technique with code examples, offering expert advice on implementation and trade-offs. Each topic is supported with a complete sample app, which demonstrates real security problems and solutions.

Learn how to

- Apply core practices for securing the platform
- Protect code, algorithms, and business rules from reverse engineering
- Eliminate hardcoding of keys, APIs, and other static data
- Eradicate extraneous data from production APKs
- Overcome the unique challenges of mobile authentication and login
- Transmit information securely using SSL
- Prevent man-in-the-middle attacks
- Safely store data in SQLite databases
- Prevent attacks against web servers and services
- Avoid side-channel data leakage through third-party libraries
- Secure APKs running on diverse devices and Android versions
- Achieve HIPAA or FIPS compliance
- Harden devices with encryption, SELinux, Knox, and MDM
- Preview emerging attacks and countermeasures

This guide is a perfect complement to Nolan's Android™ Security Essentials LiveLessons (video training; ISBN-13: 978-0-13-382904-4) and reflects new risks that have been identified since the LiveLessons were released.

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- 240 pages

Most helpful customer reviews

1 of 1 people found the following review helpful.
Android Security Topics for the Architect and Developer
By T Anderson
Sometimes I really annoy myself. When I received this book I was already reading Android Hacker's Handbook. When I saw the size of it, I put it on the bottom of the pile of books in my reading queue. I then got Android Security Internals and that was not a quick read.

I am glad I finally picked this one up off the pile. For a small book, it contains a ton of great information. In the first chapter they introduce several security guidelines including PCI Mobile Payment Acceptance Security Guidelines, Google Security, HIPAA Secure, OWASP Top 10 Mobile Risks (2014), and Forrester Research's Top 10 Nontechnical Security Issues in Mobile App Development.

I have listed the chapters below.

1. Android Security Issues
2. Protecting Your Code
3. Authentication
4. Network Communication
5. Android Databases
6. Web Server Attacks
7. Third-Party Library Integration
8. Device Security
9. The Future

The book is very concise, but the author targets topics that can be taught in short to the point chapters. For example, Chapter 2 does an awesome job of introducing obfuscation, covering the different types, and then showing us how to use ProGuard and DexGuard. The chapter concludes by showing the differences of what you can accomplish with decompiling and disassembling.

This book is different from the other Android security books I have read because it is not a book for the hacker, it is more of a book for the architect and developer. It is a book about the tools available to protect your application, not break your application.

It is also about the best practices that are available for us to follow in order to achieve a stable and secure application. Although the other books I have read were fun, this one applied more to what I need to know to do my daily job. I don't go to work to hack applications, I go there to build safe and secure ones.

The code that comes with the book is great. Best of all, it just opens, builds, and runs in Android Studio. I have been using ADT, but just recently made the switch to Android Studio. This is the first Android book that has come with code that just ran for me, and was also actually worth running and digging into.

The author's writing style makes the book an easy cover to cover read. It was also nice to have a small book

to carry around for once.

I highly recommend this book to any architect or developer that is interested in learning more about Android security topics for the architect and developer.

1 of 1 people found the following review helpful.
A very informative book on Android security
By Tareq Sattar
If you want to learn more about Android security then this book has you covered. Although it was released before Android 5.0 it does cover the preview version and the lessons are universally applicable through all versions of Android.

In the preface the author makes it clear that this not a book on hacking. Instead we learn how to use various tools to test our own apps for vulnerabilities. I used to think proguard would protect my apps but I was wrong. Turns out its quite easy to reverse engineer an APK back to source code even if you use a code obfuscator. The book explains many different ways this can be achieved and encourages you to try it out.

A typical app will have features like login authentication, network connectivity, third party libraries and so on. This book has dedicated chapters that go into great detail showing us exactly how each of them could be hacked and what we can do to combat these issues. It's important to understand how these systems work as they are all vulnerable and can be exploited. I don't know what's more shocking...the number of potential exploits or the number of tools that are freely available to do such things. The good news is that most threats can be averted quite easily by following the good practices outlined in the book.

Its quite clear that there is no such thing as a "Bulletproof Android App" and that's just the nature of the Android platform. The author has a lot of experience dealing with mobile security issues and he has done an excellent job of explaining them. I really liked the step by step walkthroughs and real world examples used in the book. It was extremely informative and a real eye opener. Thanks to this book now I know what to look out for and how I can protect my apps better. I would recommend it to anyone who wants to learn more about security on Android.

Some things I'd like to see:

- A comparative analysis between different mobile operating systems would have been excellent given the authors experience with mobile security. Some insight on other platforms would help put things into perspective.

- This book contains a lot of links. Although the preface lists all the tools and their websites, I would have liked to see the other links mentioned throughout the book compiled in one list instead of flipping through pages to find them. There's simply too many of them.

- There are a lot of Eclipse specific steps in some chapters. I would like to see these replaced with Android Studio as Eclipse has been officially deprecated.

0 of 0 people found the following review helpful.
The title justifies the content. A great practical guide to learn and incorporate android app security
By D. Garimella
Disclaimer: I participated in the review program for this title.

I am an Android app developer for over an year now. As a beginner level developer, this book helped me

understand an important aspect of app development (security). I now think about how to make my apps more secure during each phase of the app lifecycle(design development deployment). The author has clearly mentioned and gave several tools that could help incorporate security aspect in each phase of app development. Some of the notable techniques presented by the author include code-obfuscation, testing for man-in-the-middle attacks, trust but verify third party integrations, securing user data (keys etc) to the best possible extent. The author also noted the limitations of a lot of these techniques which would help a developer make informed choices for securing their apps. Based on the techniques provided I created personal checklist to ensure all relevant security measures were incorporated in an app.

Limitations: I felt the author compressed a lot of information in each chapter. I read the book twice to get a better feel of the content and comprehend it completely. I also felt the screenshots provided in the text were blurry. The author could have used images of higher resolution to make the images sharper. In the code samples provided, the specific lines referred in the textual explanation could be highlighted. Even better would be to number all the lines in the code making it easy to spot the case in point. It would have been easier to read if the larger code samples provided had short summaries on the side explaining the logic.

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