The Mobile Application Hacker's Handbook

By Dominic Chell, Tyrone Erasmus, Shaun Colley, Ollie Whitehouse

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See your app through a hacker's eyes to find the real sources of vulnerability

The Mobile Application Hacker's Handbook is a comprehensive guide to securing all mobile applications by approaching the issue from a hacker's point of view. Heavily practical, this book provides expert guidance toward discovering and exploiting flaws in mobile applications on the iOS, Android, Blackberry, and Windows Phone platforms. You will learn a proven methodology for approaching mobile application assessments, and the techniques used to prevent, disrupt, and remediate the various types of attacks. Coverage includes data storage, cryptography, transport layers, data leakage, injection attacks, runtime manipulation, security controls, and cross-platform apps, with vulnerabilities highlighted and detailed information on the methods hackers use to get around standard security.

Mobile applications are widely used in the consumer and enterprise markets to process and/or store sensitive data. There is currently little published on the topic of mobile security, but with over a million apps in the Apple App Store alone, the attack surface is significant. This book helps you secure mobile apps by demonstrating the ways in which hackers exploit weak points and flaws to gain access to data.

- Understand the ways data can be stored, and how cryptography is defeated
- Set up an environment for identifying insecurities and the data leakages that arise
- Develop extensions to bypass security controls and perform injection attacks
- Learn the different attacks that apply specifically to cross-platform apps

IT security breaches have made big headlines, with millions of consumers vulnerable as major corporations come under attack. Learning the tricks of the hacker's trade allows security professionals to lock the app up tight. For better mobile security and less vulnerable data, *The Mobile Application Hacker's Handbook* is a practical, comprehensive guide.

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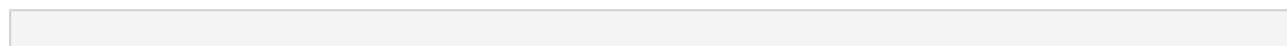
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Editorial Review

Review

"..there is a shocking lack of published material on the topic of mobile security. The Mobile Application Hacker's Handbook seeks to change this and be a positive movement to educating others in the topic of mobile security awareness." (Vigilance-Security Magazine, March 2015)

From the Back Cover

View your app through a hacker's eyes

IT security breaches make headlines almost daily. With both personal and corporate information being carried in so many pockets, mobile applications on the iOS, Android, Blackberry, and Windows Phones are a fertile field for hackers. To discover the true vulnerabilities in a mobile app, you must look at it as a hacker does.

This practical guide focuses relentlessly on the hacker's approach, helping you secure mobile apps by demonstrating how hackers exploit weak points and flaws to gain access to data. Discover a proven methodology for approaching mobile application assessments and the techniques used to prevent, disrupt, and remediate the various types of attacks.

Learn to:

- Understand the ways data can be stored and how hackers can defeat cryptography
- Set up an environment in which insecurities and data leakages can be identified
- Develop extensions to bypass security controls and perform injection attacks for testing
- Identify the different types of attacks that apply specifically to cross-platform apps
- Recognize how hackers bypass security controls such as jailbreak/root detection, tamper detection, runtime protection, and anti-debugging
- Implement a generic methodology for mobile application testing

About the Author

DOMINIC CHELL is a director of MDSec and a recognized expert in mobile security, providing training to leading global organizations.

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Ralph Humphries:

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