iOS Hacker's Handbook

By Charlie Miller, Dion Blazakis, Dino DaiZovi, Stefan Esser, Vincenzo Iozzo, Ralf-Philipp Weinmann

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Discover all the security risks and exploits that can threaten iOS-based mobile devices

iOS is Apple's mobile operating system for the iPhone and iPad. With the introduction of iOS5, many security issues have come to light. This book explains and discusses them all. The award-winning author team, experts in Mac and iOS security, examines the vulnerabilities and the internals of iOS to show how attacks can be mitigated. The book explains how the operating system works, its overall security architecture, and the security risks associated with it, as well as exploits, rootkits, and other payloads developed for it.

- Covers iOS security architecture, vulnerability hunting, exploit writing, and how iOS jailbreaks work
- Explores iOS enterprise and encryption, code signing and memory protection, sandboxing, iPhone fuzzing, exploitation, ROP payloads, and baseband attacks
- Also examines kernel debugging and exploitation
- Companion website includes source code and tools to facilitate your efforts

iOS Hacker's Handbook arms you with the tools needed to identify, understand, and foil iOS attacks.

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Editorial Review

From the Back Cover

They can crack the code. Here's how to stop them.

The world loves iOS. Users love the convenience. Black hats love the vulnerability. This book arms you with the knowledge and tools to protect your organization's iOS devices. If you're a developer, it will also help you create hack-resistant applications.

These highly qualified iOS experts review iOS security architecture, examine the internals, and reveal the vulnerabilities. They show you how iOS jailbreaks work and explore encryption, code signing and memory protection, sandboxing, iPhone fuzzing, exploitation, ROP payloads, and baseband attacks. Here's a complete toolkit for defending your iOS devices.

- Examine the internals and identify the vulnerabilities of iOS
- Explore all the elements of encryption, vulnerability hunting, and exploit writing
- Review some common payloads and see what can and can't be done on iOS with ROP
- Learn more about kernel debugging and exploitation, with an overview of kernel structure and a look at auditing IOKit drivers
- Look at techniques for fuzzing PDF and PowerPoint® documents in MobileSafari
- Study different jailbreak types

Companion website

Source code and additional tools are available at www.wiley.com/go/ioshackershandbook

About the Author

Charlie Miller is Principal Research Consultant at Accuvant Labs and a four-time CanSecWest Pwn2Own winner.

Dionysus Blazakis is an expert on iOS and OS X sandbox security mechanisms.

Dino Dai Zovi is coauthor of The Mac Hacker's Handbook and a popular conference speaker.

Stefan Esser is a PHP security expert and leading researcher of iOS security topics.

Vincenzo Iozzo is an independent security researcher focused on Mac OS X and smartphones.

Ralf-Philipp Weinmann holds a PhD in cryptography and has an extensive security background.

Users Review

From reader reviews:

Michael Counts:

This book untitled iOS Hacker's Handbook to be one of several books in which best seller in this year, this is because when you read this publication you can get a lot of benefit into it. You will easily to buy this kind of book in the book shop or you can order it through online. The publisher on this book sells the e-book too. It makes you quicker to read this book, since you can read this book in your Smart phone. So there is no reason to your account to past this book from your list.

Sandra Lester:

The reason? Because this iOS Hacker's Handbook is an unordinary book that the inside of the reserve waiting for you to snap this but latter it will distress you with the secret the item inside. Reading this book adjacent to it was fantastic author who all write the book in such awesome way makes the content interior easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you because of not hesitating having this any longer or you going to regret it. This book will give you a lot of gains than the other book possess such as help improving your skill and your critical thinking method. So , still want to hesitate having that book? If I ended up you I will go to the book store hurriedly.

Margaret Babin:

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Anthony Lainez:

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