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Chapter 5: Android ForensicsTypes of forensics; Filesystems; Android filesystem partitions; Using dd to extract data; Using a custom recovery image; Using Andriller to extract an application's data; Using AFLogical to extract contacts, calls, and text messages; Dumping application databases manually; Logging the logcat; Using backup to extract an application's data; Summary; Chapter 6: Playing with SQLite; Understanding SQLite in depth; Analyzing a simple application using SQLite; Security vulnerability; Summary; Chapter 7: Lesser-known Android Attacks; Android WebView vulnerability
Using WebView in the applicationIdentifying the vulnerability; Infecting legitimate APKs; Vulnerabilities in ad libraries; Cross Application Scripting in Android (XAS); Summary; Chapter 8: ARM Exploitation; Introduction to ARM architecture; Execution modes; Setting up the environment; Simple stack-based buffer overflow; Return-oriented programming; Android root exploits; Summary; Chapter 9: Writing the Pentest Report; Basics of a penetration testing report; Writing the pentest report; Executive summary; Vulnerabilities; Scope of the work; Tools used; Testing methodologies followed RecommendationsConclusion; Appendix; Summary; Index

Sommario/riassunto

This is an easy-to-follow guide, full of hands-on and real-world examples of applications. Each of the vulnerabilities discussed in the book is accompanied with the practical approach to the vulnerability, and the underlying security issue. This book is intended for all those who are looking to get started in Android security or Android application penetration testing. You don't need to be an Android developer to learn from this book, but it is highly recommended that developers have some experience in order to learn how to create secure applications for Android.