

1. Record Nr.	UNINA9910791060703321
Autore	Gupta Aditya
Titolo	Learning pentesting for Android devices : a practical guide to learning penetration testing for Android devices and applications // Aditya Gupta ; foreword by Elad Shapira ; cover Image by Michal Jasej
Pubbl/distr/stampa	Birmingham, England : , : Packt Publishing, , 2014 ©2014
ISBN	1-78328-899-X
Descrizione fisica	1 online resource (154 p.)
Collana	Community Experience Distilled
Disciplina	005.3
Soggetti	Application software - Design Application software - Development Computer networks - Security measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Copyright; Credits; Foreword; About the Author; Acknowledgments; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Getting Started with Android Security; Introduction to Android; Digging deeper into Android; Sandboxing and the permission model; Application signing; Android startup process; Summary; Chapter 2: Preparing the Battlefield; Setting up the development environment; Creating an Android virtual device; Useful utilities for Android Pentest; Android Debug Bridge; Burp Suite; APKTool; Summary; Chapter 3: Reversing and Auditing Android Apps Android application teardownReversing an Android application; Using Apktool to reverse an Android application; Auditing Android applications; Content provider leakage; Insecure file storage; Path traversal vulnerability/local file inclusion; Client-side injection attacks; OWASP top 10 for mobile; Summary; Chapter 4: Traffic Analysis for Android Devices; Android traffic interception; Ways of Android traffic analysis; Passive analysis; Active analysis; HTTPS Proxy interception; Other ways for SSL Traffic interception; Extracting sensitive files from packet capture; Summary Chapter 5: Android ForensicsTypes of forensics; Filesystems; Android filesystem partitions; Using dd to extract data; Using a custom recovery

image; Using Andriker 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.
