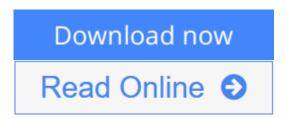# Mastering Kali Linux Wireless Pentesting

By Jilumudi Raghu Ram, Brian Sak

Mastering Kali Linux Wireless Pentesting By Jilumudi Raghu Ram, Brian Sak

Test your wireless network's security and master advanced wireless penetration techniques using Kali Linux

About This Book

- Develop your skills using attacks such as wireless cracking, Man-in-the-Middle, and Denial of Service (DOS), as well as extracting sensitive information from wireless networks
- Perform advanced wireless assessment and penetration tests
- Use Embedded Platforms, Raspberry PI, and Android in wireless penetration testing with Kali Linux

Who This Book Is For

If you are an intermediate-level wireless security consultant in Kali Linux and want to be the go-to person for Kali Linux wireless security in your organisation, then this is the book for you. Basic understanding of the core Kali Linux concepts is expected.

What You Will Learn

- Fingerprint wireless networks with the various tools available in Kali Linux
- Learn various techniques to exploit wireless access points using CSRF
- Crack WPA/WPA2/WPS and crack wireless encryption using Rainbow tables more quickly
- Perform man-in-the-middle attack on wireless clients
- Understand client-side attacks, browser exploits, Java vulnerabilities, and social engineering
- Develop advanced sniffing and PCAP analysis skills to extract sensitive information such as DOC, XLS, and PDF documents from wireless networks
- Use Raspberry PI and OpenWrt to perform advanced wireless attacks
- Perform a DOS test using various techniques and tools

In Detail

Kali Linux is a Debian-based Linux distribution designed for digital forensics and penetration testing. It gives access to a large collection of security-related tools for professional security testing - some of the major ones being Nmap, Aircrack-ng, Wireshark, and Metasploit.

This book will take you on a journey where you will learn to master advanced tools and techniques to conduct wireless penetration testing with Kali Linux.

You will begin by gaining an understanding of setting up and optimizing your penetration testing environment for wireless assessments. Then, the book will take you through a typical assessment from reconnaissance, information gathering, and scanning the network through exploitation and data extraction from your target. You will get to know various ways to compromise the wireless network using browser exploits, vulnerabilities in firmware, web-based attacks, client-side exploits, and many other hacking methods. You will also discover how to crack wireless networks with speed, perform man-in-the-middle and DOS attacks, and use Raspberry Pi and Android to expand your assessment methodology.

By the end of this book, you will have mastered using Kali Linux for wireless security assessments and become a more effective penetration tester and consultant.

Style and approach

This book uses a step-by-step approach using real-world attack scenarios to help you master the wireless penetration testing techniques.

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Editorial Review

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Jilumudi Raghu Ram

Jilumudi Raghu Ram is a security analyst with over 5 years of experience in the information security domain, with a strong knowledge of incident response, digital forensics, network security, infrastructure penetration testing, and Secure configuration audits. He has conducted security audits for more than 70 networks, both internal and external, re-audits, secure configuration reviews, and server audits (Linux and Windows) for various organizations. One of his major clients has been the Government of India, where his team was responsible for conducting penetration testing assignments for various government bodies, as well as preparing vulnerability assessment and penetration testing reports, and supporting the clients to fix those vulnerabilities. Raghu Ram's areas of expertise include incident response, digital forensics, threat research, penetration testing, vulnerability assessment, dynamic malware analysis, intrusion detection systems, and security operations monitoring. Raghu Ram has written various articles related to information security in the Hindu Group magazine Frontline. He also maintains his own website dedicated to Penetration Testing - www.wirelesspentest.com

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Brian Sak, CCIE #14441 (Security), is a 20-year information security veteran who currently works as a technical solutions architect for Cisco Systems. At Cisco Systems, he is engaged in solution development, and he consults with Cisco partners to help them build and improve their processes and services in the areas of big data analytics and digitization. Prior to joining Cisco Systems, Brian performed security consulting, penetration testing, and security assessment services for large financial institutions, US government agencies, and enterprises in the Fortune 500. In addition to numerous security and industry certifications, he has a bachelor's of science degree in information technology, with an emphasis on information security, and a master's of science degree in information security and assurance. He is also a contributor to The Center for Internet Security and other publications by Packt and Cisco Press.

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