# Macchange

**Durgesh Singh Kushwah** 

Penetration Tester's Open Source Toolkit Jeremy Faircloth, 2011-07-18 Penetration testing is often considered an art as much as it is a science, but even an artist needs the right brushes to do the job well. Many commercial and open source tools exist for performing penetration testing, but it's often hard to ensure that you know what tools are available and which ones to use for a certain task. Through the next ten chapters, we'll be exploring the plethora of open source tools that are available to you as a penetration tester, how to use them, and in which situations they apply. Open source tools are pieces of software which are available with the source code so that the software can be modified and improved by other interested contributors. In most cases, this software comes with a license allowing for distribution of the modified software version with the requirement that the source code continue to be included with the distribution. In many cases, open source software becomes a community effort where dozens if not hundreds of people are actively contributing code and improvements to the software project. This type of project tends to result in a stronger and more valuable piece of software than what would often be developed by a single individual or small company. While commercial tools certainly exist in the penetration testing space, they're often expensive and, in some cases, too automated to be useful for all penetration testing scenarios. There are many common situations where the open source tools that we will be talking about fill a need better and (obviously) more cost effectively than any commercial tool. The tools that we will be discussing throughout this book are all open source and available for you to use in your work as a penetration tester--

**Ethical Hacking Workshop** Rishalin Pillay, Mohammed Abutheraa, 2023-10-31 Get a hands-on training and experience in tools, techniques, and best practices for effective ethical hacking to combat cyber threats at any scale Key Features Use the ethical hacking methodology and thought process to perform a successful ethical hack Explore the various stages of an ethical hack and the tools related to each phase Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe Ethical Hacking Workshop will teach you how to perform ethical hacking and provide you with hands-on experience using relevant tools. By exploring the thought process involved in ethical hacking and the various techniques you can use to obtain results, you'll gain a deep understanding of how to leverage these skills effectively. Throughout this book, you'll learn how to conduct a successful ethical hack, how to use the tools correctly, and how to interpret the results to enhance your environment's security. Hands-on exercises at the end of each chapter will ensure that you solidify what you've learnt and get experience with the tools. By the end of the book, you'll be well-versed in ethical hacking and equipped with the skills and knowledge necessary to safeguard your enterprise against cyber-attacks. What you will learn Understand the key differences between encryption algorithms, hashing algorithms, and cryptography standards Capture and analyze network traffic Get to grips with the best practices for performing in-cloud recon Get start with performing scanning techniques and network mapping Leverage various top tools to perform privilege escalation, lateral movement, and implant backdoors Find out how to clear tracks and evade detection Who this book is for This book is for cybersecurity professionals who already work as part of a security team, blue team, purple team or as a security analyst and want to become familiar with the same skills and tools that potential attackers may use to breach your system and identify security vulnerabilities. A solid understanding of cloud computing and networking is a prerequisite.

VMware vSphere PowerCLI Reference Luc Dekens, Jonathan Medd, Glenn Sizemore, Brian Graf, Andrew Sullivan, Matt Boren, 2016-01-19 Master vSphere automation with this comprehensive reference VMware vSphere PowerCLI Reference, Automating vSphere Administration, 2nd Edition is a one-stop solution for vSphere automation. Fully updated to align with the latest vSphere and PowerCLI release, this detailed guide shows you how to get the most out of PowerCLI's handy cmdlets using real-world examples and a practical, task-based approach. You'll learn how to store, access, update, back up, and secure massive amounts of data quickly through the power of virtualization automation, and you'll get acquainted with PowerCLI as you learn how to automate management, monitoring, and life-cycle operations for vSphere. Coverage includes areas like the PowerCLI SDK, SRM, vCOPS, and

vCloud Air. Plus guidance toward scheduling and viewing automation, using DevOps methodology and structured testing and source control of your PowerCLI scripts. Clear language and detailed explanations make this reference the manual you've been looking for. This book is your complete reference for managing vSphere in a Windows environment, with expert instruction and real-world application. Automate vCenter Server deployment and configuration Create and configure virtual machines, and utilize vApps Monitor, audit, and report the status of your vSphere environment Secure, back up, and restore your virtual machines Work with other vSphere components from your PowerCLI scripts Take control of your PowerCLI scripts through versioning and structured testing Don't spend another day slogging through routine systems management — automate it, with this invaluable guide.

Penetration Testing Fundamentals William Easttom II,2018-03-06 The perfect introduction to pen testing for all IT professionals and students · Clearly explains key concepts, terminology, challenges, tools, and skills · Covers the latest penetration testing standards from NSA, PCI, and NIST Welcome to today's most useful and practical introduction to penetration testing. Chuck Easttom brings together up-to-the-minute coverage of all the concepts, terminology, challenges, and skills you'll need to be effective. Drawing on decades of experience in cybersecurity and related IT fields, Easttom integrates theory and practice, covering the entire penetration testing life cycle from planning to reporting. You'll gain practical experience through a start-to-finish sample project relying on free open source tools. Throughout, guizzes, projects, and review sections deepen your understanding and help you apply what you've learned. Including essential pen testing standards from NSA, PCI, and NIST, Penetration Testing Fundamentals will help you protect your assets-and expand your career options. LEARN HOW TO · Understand what pen testing is and how it's used · Meet modern standards for comprehensive and effective testing · Review cryptography essentials every pen tester must know · Perform reconnaissance with Nmap, Google searches, and ShodanHq · Use malware as part of your pen testing toolkit · Test for vulnerabilities in Windows shares, scripts, WMI, and the Registry · Pen test websites and web communication · Recognize SQL injection and cross-site scripting attacks · Scan for vulnerabilities with OWASP ZAP, Vega, Nessus, and MBSA · Identify Linux vulnerabilities and password cracks · Use Kali Linux for advanced pen testing · Apply general hacking technique ssuch as fake Wi-Fi hotspots and social engineering · Systematically test your environment with Metasploit · Write or customize sophisticated Metasploit exploits

Constructing an Ethical Hacking Knowledge Base for Threat Awareness and Prevention Dhavale, Sunita Vikrant, 2018-12-14 In recent decades there has been incredible growth in the use of various internet applications by individuals and organizations who store sensitive information online on different servers. This greater reliance of organizations and individuals on internet technologies and applications increases the threat space and poses several challenges for implementing and maintaining cybersecurity practices. Constructing an Ethical Hacking Knowledge Base for Threat Awareness and Prevention provides innovative insights into how an ethical hacking knowledge base can be used for testing and improving the network and system security posture of an organization. It is critical for each individual and institute to learn hacking tools and techniques that are used by dangerous hackers in tandem with forming a team of ethical hacking professionals to test their systems effectively. Highlighting topics including cyber operations, server security, and network statistics, this publication is designed for technical experts, students, academicians, government officials, and industry professionals.

**Basics of WIFI Hacking** Durgesh Singh Kushwah, In this comprehensive guide, Wireless Connections Unveiled, readers will embark on an enlightening journey into the fascinating world of WiFi. Whether you're a beginner or an experienced user, this book equips you with the knowledge and skills to navigate the complexities of wireless networks. From understanding the fundamentals of WiFi Hacking to advanced troubleshooting techniques, this book covers it all. Dive into the essentials of network protocols, encryption methods, and signal optimization strategies that will enhance your wireless experience. Learn how to set up secure and reliable connections, protect your network from potential threats, and maximize the performance of your devices.

Ethical Hacking for Beginners Deepanshu Rai,2018-01-15 [Ethical hacking for Beginners] is a book related to Ethical Hacking and cybersecurity, it contains all the concepts related to the attacks performed by the ethical hackers at the beginner level. This book also contains the concepts of penetration testing and cyber security. This is a must-have book for all those individual who are preparing planning to step into the field of Ethical Hacking and Penetration Testing. Hacking involves a different way of looking problems that no one thought of. -Walter O[Brian]

Penetration Testing with Raspberry Pi Joseph Muniz, Aamir Lakhani, 2015-01-27 If you are looking for a low budget, small form-factor remotely accessible hacking tool, then the concepts in this book are ideal for you. If you are a penetration tester who wants to save on travel costs by placing a low-cost node on a target network, you will save thousands by using the methods covered in this book. You do not have to be a skilled hacker or programmer to use this book. It will be beneficial to have some networking experience; however, it is not required to follow the concepts covered in this book.

Penetration Tester's Open Source Toolkit Jeremy Faircloth, Chris Hurley, 2007-11-16 Penetration testing a network requires a delicate balance of art and science. A penetration tester must be creative enough to think outside of the box to determine the best attack vector into his own network, and also be expert in using the literally hundreds of tools required to execute the plan. This second volume adds over 300 new pentesting applications included with BackTrack 2 to the pen tester's toolkit. It includes the latest information on Snort, Nessus, Wireshark, Metasploit, Kismet and all of the other major Open Source platforms. • Perform Network Reconnaissance Master the objectives, methodology, and tools of the least understood aspect of a penetration test. • Demystify Enumeration and Scanning Identify the purpose and type of the target systems, obtain specific information about the versions of the services that are running on the systems, and list the targets and services. • Hack Database Services Understand and identify common database service vulnerabilities, discover database services, attack database authentication mechanisms, analyze the contents of the database, and use the database to obtain access to the host operating system. • Test Web Servers and Applications Compromise the Web server due to vulnerabilities on the server daemon itself, its unhardened state, or vulnerabilities within the Web applications. • Test Wireless Networks and Devices Understand WLAN vulnerabilities, attack WLAN encryption, master information gathering tools, and deploy exploitation tools. • Examine Vulnerabilities on Network Routers and Switches Use Traceroute, Nmap, ike-scan, Cisco Torch, Finger, Nessus, onesixtyone, Hydra, Ettercap, and more to attack your network devices. • Customize BackTrack 2 Torque BackTrack 2 for your specialized needs through module management, unique hard drive installations, and USB installations. • Perform Forensic Discovery and Analysis with BackTrack 2 Use BackTrack in the field for forensic analysis, image acquisition, and file carving. • Build Your Own PenTesting Lab Everything you need to build your own fully functional attack lab.

Mastering Kali Linux for Advanced Penetration Testing Vijay Kumar Velu, Robert Beggs, 2019-01-30 A practical guide to testing your infrastructure security with Kali Linux, the preferred choice of pentesters and hackers Key FeaturesEmploy advanced pentesting techniques with Kali Linux to build highly secured systemsDiscover various stealth techniques to remain undetected and defeat modern infrastructures Explore red teaming techniques to exploit secured environmentBook Description This book takes you, as a tester or security practitioner, through the reconnaissance, vulnerability assessment, exploitation, privilege escalation, and post-exploitation activities used by pentesters. To start with, you'll use a laboratory environment to validate tools and techniques, along with an application that supports a collaborative approach for pentesting. You'll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure. You'll also focus on how to select, use, customize, and interpret the results from different vulnerability scanners, followed by examining specific routes to the target, which include bypassing physical security and the exfiltration of data using a variety of techniques. You'll discover concepts such as social engineering, attacking wireless networks, web services, and embedded devices. Once you are confident with these topics, you'll learn the practical aspects of attacking user client systems by backdooring with fileless techniques, followed by focusing

on the most vulnerable part of the network – directly attacking the end user. By the end of this book, you'll have explored approaches for carrying out advanced pentesting in tightly secured environments, understood pentesting and hacking techniques employed on embedded peripheral devices. What you will learnConfigure the most effective Kali Linux tools to test infrastructure securityEmploy stealth to avoid detection in the infrastructure being testedRecognize when stealth attacks are being used against your infrastructureExploit networks and data systems using wired and wireless networks as well as web servicesIdentify and download valuable data from target systemsMaintain access to compromised systemsUse social engineering to compromise the weakest part of the network - the end usersWho this book is for This third edition of Mastering Kali Linux for Advanced Penetration Testing is for you if you are a security analyst, pentester, ethical hacker, IT professional, or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of Kali Linux. Prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book.

Developing a hacker's mindset Rajat Dey, Dr. Panem Charanarur, Dr. G. Srinivasa Rao, 2023-10-21 Greetings, I'm Rajat Dey, hailing from the enchanting region of Northeast Tripura, and I'm currently a student in the 11th grade at Umakanta Academy. Today, I'm thrilled to share the news that my debut book, Developing a Hacker's Mindset, has just been published. Within the pages of this book, I delve into the intricate worlds of cybersecurity and development, highlighting the symbiotic relationship between the two. In the ever-evolving landscape of technology, it's essential for aspiring programmers, developers, and even ethical hackers to comprehend both the defensive and offensive facets of their craft. Understanding the offensive side of things equips us with the insight needed to fortify our digital fortresses. After all, how can we adequately protect ourselves if we remain oblivious to the various types of attacks, their impact, and their inner workings? Conversely, a deep understanding of the development side empowers us to tackle challenges independently and shields us from deceit. Moreover, it encourages us to venture into uncharted territory, fostering creative problem-solving, reverse engineering, and innovation. This dual knowledge also opens doors to developing sophisticated security measures. It's akin to a continuous, intertwined circle. As a developer, comprehending how to build servers and encryption systems is invaluable, as it enables us to deconstruct and explore their inner workings. Simultaneously, thinking like a hacker, scrutinizing every aspect through their lens, unveils vulnerabilities in our code and projects, paving the way for more secure and resilient solutions. In essence, it's a cyclical journey, where technology and cybersecurity are inseparable. Companies worldwide are constantly evolving to secure their applications, driving the growth of the cybersecurity field. With each update in technology, the significance of cybersecurity only deepens, creating an unbreakable bond between the realms of tech and cyber.

Pen Testing from Contract to Report Alfred Basta, Nadine Basta, Wagar Anwar, 2024-02-12 Pen Testing from Contractto Report Protect your system or web application with this accessible guide Penetration tests, also known as 'pen tests', are a means of assessing the security of a computer system by simulating a cyber-attack. These tests can be an essential tool in detecting exploitable vulnerabilities in a computer system or web application, averting potential user data breaches, privacy violations, losses of system function, and more. With system security an increasingly fundamental part of a connected world, it has never been more important that cyber professionals understand the pen test and its potential applications. Pen Testing from Contract to Report offers a step-by-step overview of the subject. Built around a new concept called the Penetration Testing Life Cycle, it breaks the process into phases, guiding the reader through each phase and its potential to expose and address system vulnerabilities. The result is an essential tool in the ongoing fight against harmful system intrusions. In Pen Testing from Contract to Report readers will also find: Content mapped to certification exams such as the CompTIA PenTest+ Detailed techniques for evading intrusion detection systems, firewalls, honeypots, and more Accompanying software designed to enable the reader to practice the concepts outlined, as well as end-of-chapter questions and case studies Pen Testing from Contract to Report is ideal for any cyber security professional or advanced

student of cyber security.

Virtualization Security Dave Shackleford, 2012-11-08 Securing virtual environments for VMware, Citrix, and Microsoft hypervisors Virtualization changes the playing field when it comes to security. There are new attack vectors, new operational patterns and complexity, and changes in IT architecture and deployment life cycles. What's more, the technologies, best practices, and strategies used for securing physical environments do not provide sufficient protection for virtual environments. This book includes step-by-step configurations for the security controls that come with the three leading hypervisor--VMware vSphere and ESXi, Microsoft Hyper-V on Windows Server 2008, and Citrix XenServer. Includes strategy for securely implementing network policies and integrating virtual networks into the existing physical infrastructure Discusses vSphere and Hyper-V native virtual switches as well as the Cisco Nexus 1000v and Open vSwitch switches Offers effective practices for securing virtual machines without creating additional operational overhead for administrators Contains methods for integrating virtualization into existing workflows and creating new policies and processes for change and configuration management so that virtualization can help make these critical operations processes more effective This must-have resource offers tips and tricks for improving disaster recovery and business continuity, security-specific scripts, and examples of how Virtual Desktop Infrastructure benefits security.

Kakar Cybersecurity Wali Khan Kakar, 2022-01-01 Contents Disclaimer! 18 Warning! 19 How to install Oracle VM VirtualBox............. 20 VirtualBox needs the Microsoft Visual C++ 2019 install Kali Linux on VMware............ 29 Install the Kali Linux ISO file in the VMware. 32 Kali Linux commands....... 36 What are Daemons in Linux? & How to Run Daemon ...... 50 How to find website vulnerabilities in Kali Linux...... 53 Running Firefox as root in a regular user's session is not supported. (\$XAUTHORITY is 4 /home/kali/. Xauth ority which is owned by Kali.) ...... 57 How to secure Web server from hackers ..... 59 Dark Web Installation...... 61 How to Crate Dark Web Website...... 65 Linux Scanning Techniques in the Nmap...... 76 Firewall Bypass — How to Do No-Ping Scan with (Information Gathering Tool) ...... 137 How to Secure Your Systems and Servers | WAF and OWASP...... 138 Capturing and Analyzing Network Packets with Increase Internet Speed in Kali Linux ......... 155 NetBIOS Enumeration | How to Perform Enumeration of NetBIOS ...... 158 Install Metasploitable 2 on Virtual Machine159 Bash Shell Information Gathering................ 182 Scan the WordPress Vulnerabilities.................... 184 Or 

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Beginning Ethical Hacking with Python Sanjib Sinha,2016-12-25 Learn the basics of ethical hacking and gain insights into the logic, algorithms, and syntax of Python. This book will set you up with a foundation that will help you understand the advanced concepts of hacking in the future. Learn Ethical Hacking with Python 3 touches the core issues of cyber security: in the modern world of interconnected computers and the Internet, security is increasingly becoming one of the most important features of programming. Ethical hacking is closely related to Python. For this reason this book is organized in three parts. The first part deals with the basics of ethical hacking; the second part deals with Python 3; and the third part deals with more advanced features of ethical hacking. What You Will Learn Discover the legal constraints of ethical hacking Work with virtual machines and virtualization Develop skills in Python 3 See the importance of networking in ethical hacking Gain knowledge of the dark web, hidden Wikipedia, proxy chains, virtual private networks, MAC addresses, and more Who This Book Is For Beginners wanting to learn ethical hacking alongside a modular object oriented programming language.

This is this it can never be that only this. Wifi hacking with Kali Linux simple and for real everything to get started and not get arrested, and life lessons with a bad attitude and no B.S. + Democrats, and Socialism. Please for the love of God Robert Deniro shut up, why President Trump and Jeff Bezos are the greatest Americans. AKA, Let's spend a tax credit. Robert A Dixon, 2019-12-23 Complete beginner guide to WiFi hacking. If you don't even know what Kali Linux is that's fine then this is for you. This books covers everything from downloading to installing on your computer to installing on a live USB. It's idiot proof just follow the links then once you have your installation follow more links for the cheapest and best equipment on Amazon, if you can find cheaper or better stuff buy it, if not your covered. This book gets you started cheap fast and easy, have a problem contact the author his email is provided. This book is also a general life guide. Ever wonder why things are the way they are, its in here. The on thing not in this book is smoke, no smoke and mirrors are used, to learn Kali Linux is easy, or just copy and paste the work is done for you, but that wont guarantee you success scripts only get you so far. If you actually want to try it for real or learn it for real this is for you if your expecting an app that magically gives you WiFi passwords I hate to break it to you once that disappoints you you'll have to face up to Santa Clause and The Easter Bunny, oh and The Tooth Fairy. Ever wonder why Mark Garafallo hates capitalism but is a complete capitalist and dependent on capitalism it's in here. Wonder why is Chris Evans intimidated by James Dean being cast in a new movie, it's in here. Want to learn how to spend a tax credit, well actually you can't but the reason why you can't is in here. Plus a heart felt plea to Robert Deniro to just shut up, and to please stop having strokes in The Irishman, or as he thinks of it giving a beat down. Do you just want to have some fun? That's defiantly in here. Remember smoking I'm having one right now and IT'S IN HERE! Come on along and enjoy the ride.

Learn Kali Linux 2019 Glen D. Singh,2019-11-14 Explore the latest ethical hacking tools and techniques in Kali Linux 2019 to perform penetration testing from scratch Key FeaturesGet up and running with Kali Linux 2019.2Gain comprehensive insights into security concepts such as social engineering, wireless network exploitation, and web application attacksLearn to use Linux commands in the way ethical hackers do to gain control of your environmentBook Description The current rise in hacking and security breaches makes it more important than ever to effectively pentest your environment, ensuring endpoint protection. This book will take you through the latest version of Kali Linux and help you use various tools and techniques to efficiently deal with crucial security aspects. Through real-world examples, you'll understand how to set up a lab and later explore core penetration testing concepts. Throughout the course of this book, you'll get up to speed with gathering sensitive

information and even discover different vulnerability assessment tools bundled in Kali Linux 2019. In later chapters, you'll gain insights into concepts such as social engineering, attacking wireless networks, exploitation of web applications and remote access connections to further build on your pentesting skills. You'll also focus on techniques such as bypassing controls, attacking the end user and maintaining persistence access through social media. Finally, this pentesting book covers best practices for performing complex penetration testing techniques in a highly secured environment. By the end of this book, you'll be able to use Kali Linux to detect vulnerabilities and secure your system by applying penetration testing techniques of varying complexity. What you will learn Explore the fundamentals of ethical hackingLearn how to install and configure Kali LinuxGet up to speed with performing wireless network pentestingGain insights into passive and active information gatheringUnderstand web application pentesting Decode WEP, WPA, and WPA2 encryptions using a variety of methods, such as the fake authentication attack, the ARP request replay attack, and the dictionary attackWho this book is for If you are an IT security professional or a security consultant who wants to get started with penetration testing using Kali Linux 2019.2, then this book is for you. The book will also help if you're simply looking to learn more about ethical hacking and various security breaches. Although prior knowledge of Kali Linux is not necessary, some understanding of cybersecurity will be useful.

<u>Penetration Testing with the Bash shell</u> Keith Makan,2014-05-26 An easy-to-understand, step-by-step practical guide that shows you how to use the Linux Bash terminal tools to solve information security problems. If you are a penetration tester, system administrator, or developer who would like an enriching and practical introduction to the Bash shell and Kali Linux command-line-based tools, this is the book for you.

Learn Ethical Hacking from Scratch Zaid Sabih, 2018-07-31 Learn how to hack systems like black hat hackers and secure them like security experts Key Features Understand how computer systems work and their vulnerabilities Exploit weaknesses and hack into machines to test their security Learn how to secure systems from hackers Book Description This book starts with the basics of ethical hacking, how to practice hacking safely and legally, and how to install and interact with Kali Linux and the Linux terminal. You will explore network hacking, where you will see how to test the security of wired and wireless networks. You'll also learn how to crack the password for any Wi-Fi network (whether it uses WEP, WPA, or WPA2) and spy on the connected devices. Moving on, you will discover how to gain access to remote computer systems using client-side and server-side attacks. You will also get the hang of post-exploitation techniques, including remotely controlling and interacting with the systems that you compromised. Towards the end of the book, you will be able to pick up web application hacking techniques. You'll see how to discover, exploit, and prevent a number of website vulnerabilities, such as XSS and SQL injections. The attacks covered are practical techniques that work against real systems and are purely for educational purposes. At the end of each section, you will learn how to detect, prevent, and secure systems from these attacks. What you will learn Understand ethical hacking and the different fields and types of hackers Set up a penetration testing lab to practice safe and legal hacking Explore Linux basics, commands, and how to interact with the terminal Access password-protected networks and spy on connected clients Use server and client-side attacks to hack and control remote computers Control a hacked system remotely and use it to hack other systems Discover, exploit, and prevent a number of web application vulnerabilities such as XSS and SQL injections Who this book is for Learning Ethical Hacking from Scratch is for anyone interested in learning how to hack and test the security of systems like professional hackers and security experts.

Wireless Penetration Testing: Up and Running Dr. Ahmed Hashem El Fiky,2022-12-08 Examine, Attack, and Exploit Flaws and Vulnerabilities in Advanced Wireless Networks KEY FEATURES ● Extensive hands-on lab instructions in using Kali Linux to crack wireless networks. ● Covers the misconceptions, failures, and best practices that can help any pen tester come up with their special cyber attacks. ● Extensive coverage of Android and iOS pentesting, as well as attacking techniques and simulated attack scenarios. DESCRIPTION This book satisfies any IT professional's desire to

become a successful ethical hacker who is willing to be employed in identifying and exploiting flaws in the organization's network environment. This book explains in detail how to conduct wireless penetration tests using a wide variety of tools to simulate cyber attacks on both Android and iOS mobile devices and wireless networks. This book walks you through the steps of wireless penetration testing from start to finish. Once Kali Linux has been installed on your laptop, as demonstrated, you will check the system requirements and install the wireless adapter. The book then explores the wireless LAN reconnaissance phase, which outlines the WEP and WPA/WPA2 security protocols and shows real-world attacks against them using Kali Linux tools like Aircrack-ng. Then, the book discusses the most recent and sophisticated cyberattacks that target access points and wireless devices and how to prepare a compelling and professionally presented report. As a bonus, it removes myths, addresses misconceptions, and corrects common misunderstandings that can be detrimental to one's professional credentials. Tips and advice that are easy to implement and can increase their marketability as a pentester are also provided, allowing them to guickly advance toward a satisfying career in the field. WHAT YOU WILL LEARN • Learn all about breaking the WEP security protocol and cracking authentication keys. ● Acquire the skills necessary to successfully attack the WPA/WPA2 protocol. ● Compromise the access points and take full control of the wireless network. ● Bring your laptop up to speed by setting up Kali Linux and a wifi adapter. 

Identify security flaws and scan for open wireless LANs. • Investigate the process and steps involved in wireless penetration testing. WHO THIS BOOK IS FOR This book is primarily for pentesters, mobile penetration testing users, cybersecurity analysts, security engineers, and all IT professionals interested in pursuing a career in cybersecurity. Before diving into this book, familiarity with network security fundamentals is recommended. TABLE OF CONTENTS 1. Wireless Penetration Testing Lab Setup 2. Wireless Attacking Techniques and Methods 3. Wireless Information Gathering and Footprinting 4. Wireless Vulnerability Research 5. Gain Access to Wireless Network 6. Wireless Vulnerability Assessment 7. Client-side Attacks 8. Advanced Wireless Attacks 9. Wireless Post-Exploitation 10. Android Penetration Testing 11. iOS Penetration Testing 12. Reporting

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