
File Type PDF Backtrack 5 Wireless Penetration Testing Beginners Guide

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3E07KA - HURLEY GREER

Learn the art of building a low-cost, portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2 About This Book Quickly turn your Raspberry Pi 3 into a low-cost hacking tool using Kali Linux 2 Protect your confidential data by deftly preventing various network security attacks Use Raspberry Pi 3 as honeypots to warn you that hackers are on your wire Who This Book Is For If you are a computer enthusiast who wants to learn advanced hacking techniques using the Raspberry Pi 3 as your pentesting toolbox, then this book is for you. Prior knowledge of networking and Linux would be an advantage. What You Will Learn Install and tune Kali Linux 2 on a Raspberry Pi 3 for hacking Learn how to store and offload pentest data from the Raspberry Pi 3 Plan and perform man-in-the-middle attacks and bypass advanced encryption techniques Compromise systems using various exploits and tools using Kali Linux 2 Bypass security defenses and remove data off a target network Develop a command and control system to manage remotely placed Raspberry Pis Turn a Raspberry Pi 3 into a honeypot to capture sensitive information In Detail This book will show you how to utilize the latest credit card sized Raspberry Pi 3 and create a portable, low-cost hacking tool using Kali Linux 2. You'll begin by installing and tuning Kali Linux 2 on Raspberry Pi 3 and then get started with penetration testing. You will be exposed to various network security scenarios such as wireless security, scanning network packets in order to detect any issues in the network, and capturing sensitive data. You will also learn how to plan and perform various attacks such as man-in-the-middle, password cracking, bypassing SSL encryption, compromising systems using various toolkits, and many more. Finally, you'll see how to bypass security defenses and avoid detection, turn your Pi 3 into a honeypot, and develop a command and control system to manage a remotely-placed Raspberry Pi 3. By the end of this book you will be able to turn Raspberry Pi 3 into a hacking arsenal to leverage the most popular open source toolkit, Kali Linux 2.0. Style and approach This concise and fast-paced guide will ensure you get hands-on with penetration testing right from the start. You will quickly install the powerful Kali Linux 2 on your Raspberry Pi 3 and then learn how to use and conduct fundamental penetration techniques and attacks.

Written in an easy-to-follow step-by-step format, you will be able to get started in next to no time with minimal effort and zero fuss.BackTrack: Testing Wireless Network Security is for anyone who has an interest in security and who wants to know more about wireless networks.All you need is some experience with networks and computers and you will be ready to go.

Over 80 recipes on how to identify, exploit, and test web application security with Kali Linux 2 About This Book Familiarize yourself with the most common web vulnerabilities a web application faces, and understand how attackers take advantage of them Set up a penetration testing lab to conduct a preliminary assessment of attack surfaces and run exploits Learn how to prevent vulnerabilities in web applications before an attacker can make the most of it Who This Book Is For This book is for IT professionals, web developers, security enthusiasts, and security professionals who want an accessible reference on how to find, exploit, and prevent security vulnerabilities in web applications. You should know the basics of operating a Linux environment and have some exposure to security technologies and tools. What You Will Learn Set up a penetration testing laboratory in a secure way Find out what information is useful to gather when performing penetration tests and where to look for it Use crawlers and spiders to investigate an entire website in minutes Discover security vulnerabilities in web applications in the web browser and using command-line tools Improve your testing efficiency with the use of automated vulnerability scanners Exploit vulnerabilities that require a complex setup, run custom-made exploits, and prepare for extraordinary scenarios Set up Man in the Middle attacks and use them to identify and exploit security flaws within the communication between users and the web server Create a malicious site that will find and exploit vulnerabilities in the user's web browser Repair the most common web vulnerabilities and understand how to prevent them becoming a threat to a site's security In Detail Web applications are a huge point of attack for malicious hackers and a critical area for security professionals and penetration testers to lock down and secure. Kali Linux is a Linux-based penetration testing platform and operating system that provides a huge array of testing tools, many of which can be used specifically to execute web penetration testing. This book will teach you, in the form step-by-step recipes, how to detect a wide array of vulnerabilities, exploit them to analyze their consequences, and ultimately buffer attackable surfaces so applications are more secure, for you and your users. Starting from the setup of a testing laboratory, this book will give you the skills you need to cover every stage of a penetration test: from gathering information about the system and the application to identifying vulnerabilities through manual testing and the use of vulnerability scanners to both basic and advanced exploitation techniques that may lead to a full system compromise. Finally, we will put this into the context of OWASP and the top 10 web application vulnerabilities you are most likely to encounter, equipping you with the ability to combat them effectively. By the end of the book, you will have the required skills to identify, exploit, and prevent web application vulnerabilities. Style and approach Taking a recipe-based approach to web security, this book has been designed to cover each stage of a penetration test, with descriptions on how tools work and why certain programming or configuration practices can become security vulnerabilities that may put a whole system, or network, at risk. Each topic is presented as a sequence of tasks and contains a proper explanation of why each task is performed and what it accomplishes.

A practical, cookbook style with numerous chapters and recipes explaining the penetration testing. The cookbook-style recipes allow you to go directly to your topic of interest if you are an expert using this book as a reference, or to follow topics throughout a chapter to gain in-depth knowledge if you are a beginner.This book is ideal for anyone who wants to get up to speed with Kali Linux. It would also be an ideal book to use as a reference for seasoned penetration testers.

Do you want to become a proficient specialist in cybersecurity and you want to learn the fundamentals of ethical hacking? Do you want to have a detailed overview of all the basic tools provided by the best Linux distribution for ethical hacking? Have you scoured the internet looking for the perfect resource to help you get started with hacking, but became overwhelmed by the amount of disjointed information available on the topic of hacking and cybersecurity? If you answered yes to any of these questions, then this is the book for you. Hacking is becoming more complex and sophisticated, and companies are scrambling to protect their digital assets against threats by setting up cybersecurity systems. These systems need to be routinely checked to ensure that these systems do the jobs they're designed to do. The people who can do these checks are penetration testers and ethical hackers, programmers who are trained to find and exploit vulnerabilities in networks and proffer ways to cover them up. Now more than ever, companies are looking for penetration testers and cybersecurity professionals who have practical, hands-on experience with Kali Linux and other open-source hacking tools. In this powerful book, you're going to learn how to master the industry-standard platform for hacking, penetration and security testing--Kali Linux. This book assumes you know nothing about Kali Linux and hacking and will start from scratch and build up your practical knowledge on how to use Kali Linux and other open-source tools to become a hacker as well as understand the processes behind a successful penetration test. Here's a preview of what you're going to learn in Kali Linux Hacking: A concise introduction to the concept of "hacking" and Kali Linux Everything you need to know about the different types of hacking, from session hijacking and SQL injection to phishing and DOS attacks Why hackers aren't always bad guys as well as the 8 hacker types in today's cyberspace Why Kali Linux is the platform of choice for many amateur and professional hackers Step-by-step instructions to set up and install Kali Linux on your computer How to master the Linux terminal as well as fundamental Linux commands you absolutely need to know about A complete guide to using Nmap to understand, detect and exploit vulnerabilities How to effectively stay anonymous while carrying out hacking attacks or penetration testing How to use Bash and Python scripting to become a better hacker ...and tons more! Designed with complete beginners in mind, this book is packed with practical examples and real-world hacking techniques explained in plain, simple English. This book is for the new generation of 21st-century hackers and cyber defenders and will help you level up your skills in cybersecurity and pen-testing. Whether you're just getting started with hacking or you're preparing for a career change into the field of cybersecurity, or are simply looking to buff up your resume and become more attractive to employers, Kali Linux Hacking is the book that you need! Would You Like To Know More? Click Buy Now With 1-Click or Buy Now to get started!

With more than 600 security tools in its arsenal, the Kali Linux distribution can be overwhelming. Experienced and aspiring security professionals alike may find it challenging to select the most appropriate tool for conducting a given test. This practical book covers Kali's expansive security capabilities and helps you identify the tools you need to conduct a wide range of security tests and penetration tests. You'll also explore the vulnerabilities that make those tests necessary. Author Ric Messier takes you through the foundations of Kali Linux and explains methods for conducting tests on networks, web applications, wireless security, password vulnerability, and more. You'll discover different techniques for extending Kali tools and creating your own toolset. Learn tools for stress testing network stacks and applications Perform network reconnaissance to determine what's available to attackers Execute penetration tests using automated exploit tools such as Metasploit Use cracking tools to see if passwords meet complexity requirements Test wireless capabilities by injecting frames and cracking passwords Assess web application vulnerabilities with automated or proxy-based tools Create advanced attack techniques by extending Kali tools or developing your own Use Kali Linux to generate reports once testing is complete Web Penetration Testing with Kali Linux contains various penetration testing methods using BackTrack that will be used by the reader. It contains clear step-by-step instructions with lot of screenshots. It is written in an easy to understand language which will further simplify the understanding for the user."Web Penetration Testing with Kali Linux" is ideal for anyone who is interested in learning how to become a penetration tester. It will also help the users who are new to Kali Linux and want to learn the features and differences in Kali versus Backtrack, and seasoned penetration testers who may need a refresher or reference on new tools and techniques. Basic familiarity with web-based programming languages such as PHP, JavaScript and MySQL will also prove helpful.

This practical book outlines the steps needed to perform penetration testing using BackBox. It explains common penetration testing scenarios and gives practical explanations applicable to a real-world setting. This book is written primarily for security experts and system administrators who have an intermediate Linux capability. However, because of the simplicity and user-friendly design, it is also suitable for beginners looking to understand the principle steps of penetration testing.

Learn how to execute web application penetration testing end-to-end Key Features Build an end-to-end threat model landscape for web application security Learn both web application vulnerabilities and web intrusion testing Associate network vulnerabilities with a web application infrastructure Book Description Companies all over the world want to hire professionals dedicated to application security. Practical Web Penetration Testing focuses on this very trend, teaching you how to conduct application security testing using real-life scenarios. To start with, you'll set up an environment to perform web application penetration testing. You will then explore different penetration testing concepts such as threat modeling, intrusion test, infrastructure security threat, and more, in combination with advanced concepts such as Python scripting for automation. Once you are done learning the basics, you will discover end-to-end implementation of tools such as Metasploit, Burp Suite, and Kali Linux. Many companies deliver projects into production by using either Agile or Waterfall methodology. This book shows you how to assist any company with their SDLC approach and helps you on your journey to becoming an application security specialist. By the end of this book, you will have hands-on knowledge of using different tools for pen-

etration testing. What you will learn Learn how to use Burp Suite effectively Use Nmap, Metasploit, and more tools for network infrastructure tests Practice using all web application hacking tools for intrusion tests using Kali Linux Learn how to analyze a web application using application threat modeling Know how to conduct web intrusion tests Understand how to execute network infrastructure tests Master automation of penetration testing functions for maximum efficiency using Python Who this book is for Practical Web Penetration Testing is for you if you are a security professional, penetration tester, or stakeholder who wants to execute penetration testing using the latest and most popular tools. Basic knowledge of ethical hacking would be an added advantage.

Hacking with Kali introduces you the most current distribution of the de facto standard tool for Linux pen testing. Starting with use of the Kali live CD and progressing through installation on hard drives, thumb drives and SD cards, author James Broad walks you through creating a custom version of the Kali live distribution. You'll learn how to configure networking components, storage devices and system services such as DHCP and web services. Once you're familiar with the basic components of the software, you'll learn how to use Kali through the phases of the penetration testing lifecycle; one major tool from each phase is explained. The book culminates with a chapter on reporting that will provide examples of documents used prior to, during and after the pen test. This guide will benefit information security professionals of all levels, hackers, systems administrators, network administrators, and beginning and intermediate professional pen testers, as well as students majoring in information security. Provides detailed explanations of the complete penetration testing lifecycle Complete linkage of the Kali information, resources and distribution downloads Hands-on exercises reinforce topics

Just as a professional athlete doesn't show up without a solid game plan, ethical hackers, IT professionals, and security researchers should not be unprepared, either. The Hacker Playbook provides them their own game plans. Written by a longtime security professional and CEO of Secure Planet, LLC, this step-by-step guide to the "game" of penetration hacking features hands-on examples and helpful advice from the top of the field. Through a series of football-style "plays," this straightforward guide gets to the root of many of the roadblocks people may face while penetration testing—including attacking different types of networks, pivoting through security controls, privilege escalation, and evading antivirus software. From "Pregame" research to "The Drive" and "The Lateral Pass," the practical plays listed can be read in order or referenced as needed. Either way, the valuable advice within will put you in the mindset of a penetration tester of a Fortune 500 company, regardless of your career or level of experience. This second version of The Hacker Playbook takes all the best "plays" from the original book and incorporates the latest attacks, tools, and lessons learned. Double the content compared to its predecessor, this guide further outlines building a lab, walks through test cases for attacks, and provides more customized code. Whether you're downing energy drinks while desperately looking for an exploit, or preparing for an exciting new job in IT security, this guide is an essential part of any ethical hacker's library—so there's no reason not to get in the game.

Kali Linux is the most popular distribution dedicated to penetration testing that includes a set of free, open source tools. This book introduces you to wireless penetration testing and describes how to conduct its various phases. After showing you how to install Kali Linux on your laptop, you will verify the requirements of the wireless adapter and configure it. Next, the book covers the wireless LAN reconnaissance phase, explains the WEP and WPA/WPA2 security protocols and demonstrates practical attacks against them using the tools provided in Kali Linux, Aircrack-ng in particular. You will then discover the advanced and latest attacks targeting access points and wireless clients and learn how to create a professionally written and effective report.

Get started in white-hat ethical hacking using Kali Linux. This book starts off by giving you an overview of security trends, where you will learn the OSI security architecture. This will form the foundation for the rest of Beginning Ethical Hacking with Kali Linux. With the theory out of the way, you'll move on to an introduction to VirtualBox, networking, and common Linux commands, followed by the step-by-step procedure to build your own web server and acquire the skill to be anonymous. When you have finished the examples in the first part of your book, you will have all you need to carry out safe and ethical hacking experiments. After an introduction to Kali Linux, you will carry out your first penetration tests with Python and code raw binary packets for use in those tests. You will learn how to find secret directories on a target system, use a TCP client in Python, and scan ports using NMAP. Along the way you will discover effective ways to collect important information, track email, and use important tools such as DMITRY and Maltego, as well as take a look at the five phases of penetration testing. The coverage of vulnerability analysis includes sniffing and spoofing, why ARP poisoning is a threat, how Sniffjoke prevents poisoning, how to analyze protocols with Wireshark, and using sniffing packets with Scapy. The next part of the book shows you detecting SQL injection vulnerabilities, using sqlmap, and applying brute force or password attacks. Besides learning these tools, you will see how to use OpenVas, Nikto, Vega, and Burp Suite. The book will explain the information assurance model and the hacking framework Metasploit, taking you through important commands, exploit and payload basics. Moving on to hashes and passwords you will learn password testing and hacking techniques with John the Ripper and Rainbow. You will then dive into classic and modern encryption techniques where you will learn the conventional cryptosystem. In the final chapter you will acquire the skill of exploiting remote Windows and Linux systems and you will learn how to own a target completely. What You Will Learn Master common Linux commands and networking techniques Build your own Kali web server and learn to be anonymous Carry out penetration testing using Python Detect sniffing attacks and SQL injection vulnerabilities Learn tools such as Sniffjoke, Wireshark, Scapy, sqlmap, OpenVas, Nikto, and Burp Suite Use Metasploit with Kali Linux Exploit remote Windows and Linux systems Who This Book Is For Developers new to ethical hacking with a basic understanding of Linux programming.

Kismet is the industry standard for examining wireless network traffic, and is used by over 250,000 security professionals, wireless networking enthusiasts, and WarDriving hobbyists. Unlike other wireless networking books that have been published in recent years that geared towards Windows users, Kismet Hacking is geared to those individuals that use the Linux operating system. People who use Linux and want to use wireless tools need to use Kismet. Now with the introduction of Kismet NewCore, they have a book that will answer all their questions about using this great tool. This book continues in the successful vein of books for wireless users such as WarDriving: Drive, Detect Defend. *Wardrive Running Kismet from the BackTrack Live CD *Build and Integrate Drones with your Kismet Server *Map Your Data with GPSMap, KisMap, WIGLE and GpsDrive

Professional Penetration Testing walks you through the entire process of setting up and running a pen test lab. Penetration testing—the act of testing a computer network to find security vulnerabilities before they are maliciously exploited—is a crucial component of information security in any organi-

zation. With this book, you will find out how to turn hacking skills into a professional career. Chapters cover planning, metrics, and methodologies; the details of running a pen test, including identifying and verifying vulnerabilities; and archiving, reporting and management practices. Author Thomas Wilhelm has delivered penetration testing training to countless security professionals, and now through the pages of this book you can benefit from his years of experience as a professional penetration tester and educator. After reading this book, you will be able to create a personal penetration test lab that can deal with real-world vulnerability scenarios. All disc-based content for this title is now available on the Web. Find out how to turn hacking and pen testing skills into a professional career Understand how to conduct controlled attacks on a network through real-world examples of vulnerable and exploitable servers Master project management skills necessary for running a formal penetration test and setting up a professional ethical hacking business Discover metrics and reporting methodologies that provide experience crucial to a professional penetration tester "This course is aimed at security professionals and IT professionals who want to learn about wireless penetration testing using the BackTrack Linux security distribution. The course assumes that you already know the basics of wireless networks and can operate at least one Linux distribution. Packt video courses are designed to cover the breadth of the topic in short, hands-on, task-based videos. Each course is divided into short manageable sections, so you can watch the whole thing or jump to the bit you need. The focus is on practical instructions and screencasts showing you how to get the job done. Designed as a practical video tutorial with step-by-step instructions to teach you about Wireless Penetration Testing, the course has been designed to ensure that topics are presented in a gradual manner, allowing you to grasp the information that's being presented before moving on to more advanced topics"--Resource description page.

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.

Violent Python shows you how to move from a theoretical understanding of offensive computing concepts to a practical implementation. Instead of relying on another attacker's tools, this book will teach you to forge your own weapons using the Python programming language. This book demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts. It also shows how to write code to intercept and analyze network traffic using Python, craft and spoof wireless frames to attack wireless and Bluetooth devices, and how to data-mine popular social media websites and evade modern anti-virus. Demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts Write code to intercept and analyze network traffic using Python. Craft and spoof wireless frames to attack wireless and Bluetooth devices Data-mine popular social media websites and evade modern anti-virus

The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built your foundation for penetration testing, you'll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You'll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: -Find and exploit unmaintained, misconfigured, and unpatched systems -Perform reconnaissance and find valuable information about your target -Bypass anti-virus technologies and circumvent security controls -Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery -Use the Meterpreter shell to launch further attacks from inside the network -Harness standalone Metasploit utilities, third-party tools, and plug-ins -Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond.

Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to build a home or enterprise lab environment where you can safely practice penetration testing techniques and improve your hacking skills, then this book is for you. No prior penetration testing experience is required, as the lab environment is suitable for various skill levels and is used for a wide range of techniques from basic to advance. Whether you are brand new to online learning or you are a seasoned expert, you will be able to set up your own hacking playground depending on your tasks. What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In Detail Starting with the basics of wireless networking and its associated risks, we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine. This book will guide you through configuring hardware and virtual network devices, filling the lab network with applications and security solutions, and making it look and work like a real enterprise network. The resulting lab protected with WPA-Enterprise will let you practice most of the attack techniques used in penetration testing projects. Along with a review of penetration testing frameworks, this book is also a detailed manual on preparing a platform for wireless penetration testing. By the end of this book, you will be at the point when you can practice, and research without worrying about your lab environment for every task. Style and approach This is an easy-to-follow guide full of hands-on examples and recipes. Each topic is explained thoroughly and supplies you with the necessary configuration settings. You can pick the recipes you want to follow depending on the task you need to perform.

Full Coverage of All Exam Objectives for the CEH Exams 312-50 and EC0-350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive study guide. The book provides full coverage of exam topics, real-world examples, and includes a CD with chapter review

questions, two full-length practice exams, electronic flashcards, a glossary of key terms, and the entire book in a searchable pdf e-book. What's Inside: Covers ethics and legal issues, footprinting, scanning, enumeration, system hacking, trojans and backdoors, sniffers, denial of service, social engineering, session hijacking, hacking Web servers, Web application vulnerabilities, and more Walks you through exam topics and includes plenty of real-world scenarios to help reinforce concepts Includes a CD with an assessment test, review questions, practice exams, electronic flashcards, and the entire book in a searchable pdf

If you are a security professional, pentester, or anyone interested in getting to grips with wireless penetration testing, this is the book for you. Some familiarity with Kali Linux and wireless concepts is beneficial.

Target, test, analyze, and report on security vulnerabilities with pen testing Pen Testing is necessary for companies looking to target, test, analyze, and patch the security vulnerabilities from hackers attempting to break into and compromise their organizations data. It takes a person with hacking skills to look for the weaknesses that make an organization susceptible to hacking. Pen Testing For Dummies aims to equip IT enthusiasts at various levels with the basic knowledge of pen testing. It is the go-to book for those who have some IT experience but desire more knowledge of how to gather intelligence on a target, learn the steps for mapping out a test, and discover best practices for analyzing, solving, and reporting on vulnerabilities. The different phases of a pen test from pre-engagement to completion Threat modeling and understanding risk When to apply vulnerability management vs penetration testing Ways to keep your pen testing skills sharp, relevant, and at the top of the game Get ready to gather intelligence, discover the steps for mapping out tests, and analyze and report results!

Written in an easy-to-follow approach using hands-on examples, this book helps you create virtual environments for advanced penetration testing, enabling you to build a multi-layered architecture to include firewalls, IDS/IPS, web application firewalls, and endpoint protection, which is essential in the penetration testing world.If you are a penetration tester, security consultant, security test engineer, or analyst who wants to practice and perfect penetration testing skills by building virtual pentesting labs in varying industry scenarios, this is the book for you. This book is ideal if you want to build and enhance your existing pentesting methods and skills. Basic knowledge of network security features is expected along with web application testing experience.

Wireless has become ubiquitous in today's world. The mobility and flexibility provided by it makes our lives more comfortable and productive. But this comes at a cost - Wireless technologies are inherently insecure and can be easily broken. BackTrack is a penetration testing and security auditing distribution that comes with a myriad of wireless networking tools used to simulate network attacks and detect security loopholes. Backtrack 5 Wireless Penetration Testing Beginner's Guide will take you through the journey of becoming a Wireless hacker. You will learn various wireless testing methodologies taught using live examples, which you will implement throughout this book. The engaging practical sessions very gradually grow in complexity giving you enough time to ramp up before you get to advanced wireless attacks. This book will take you through the basic concepts in Wireless and creating a lab environment for your experiments to the business of different lab sessions in wireless security basics, slowly turn on the heat and move to more complicated scenarios, and finally end your journey by conducting bleeding edge wireless attacks in your lab. There are many interesting and new things that you will learn in this book - War Driving, WLAN packet sniffing, Network Scanning, Circumventing hidden SSIDs and MAC filters, bypassing Shared Authentication, Cracking WEP and WPA/WPA2 encryption, Access Point MAC spoofing, Rogue Devices, Evil Twins, Denial of Service attacks, Viral SSIDs, Honeygot and Hotspot attacks, Caffe Latte WEP Attack, Man-in-the-Middle attacks, Evading Wireless Intrusion Prevention systems and a bunch of other cutting edge wireless attacks. If you were ever curious about what wireless security and hacking was all about, then this book will get you started by providing you with the knowledge and practical know-how to become a wireless hacker. Hands-on practical guide with a step-by-step approach to help you get started immediately with Wireless Penetration Testing

Master bleeding edge wireless testing techniques with BackTrack 5.

Master the art of identifying vulnerabilities within the Windows OS and develop the desired solutions for it using Kali Linux. Key Features Identify the vulnerabilities in your system using Kali Linux 2018.02 Discover the art of exploiting Windows kernel drivers Get to know several bypassing techniques to gain control of your Windows environment Book Description Windows has always been the go-to platform for users around the globe to perform administration and ad hoc tasks, in settings that range from small offices to global enterprises, and this massive footprint makes securing Windows a unique challenge. This book will enable you to distinguish yourself to your clients. In this book, you'll learn advanced techniques to attack Windows environments from the indispensable toolkit that is Kali Linux. We'll work through core network hacking concepts and advanced Windows exploitation techniques, such as stack and heap overflows, precision heap spraying, and kernel exploitation, using coding principles that allow you to leverage powerful Python scripts and shellcode. We'll wrap up with post-exploitation strategies that enable you to go deeper and keep your access. Finally, we'll introduce kernel hacking fundamentals and fuzzing testing, so you can discover vulnerabilities and write custom exploits. By the end of this book, you'll be well-versed in identifying vulnerabilities within the Windows OS and developing the desired solutions for them. What you will learn Get to know advanced pen testing techniques with Kali Linux Gain an understanding of Kali Linux tools and methods from behind the scenes See how to use Kali Linux at an advanced level Understand the exploitation of Windows kernel drivers Understand advanced Windows concepts and protections, and how to bypass them using Kali Linux Discover Windows exploitation techniques, such as stack and heap overflows and kernel exploitation, through coding principles Who this book is for This book is for penetration testers, ethical hackers, and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps. Prior experience with Windows exploitation, Kali Linux, and some Windows debugging tools is necessary

Basic Security Testing with Kali Linux, Third Edition Kali Linux (2018) is an Ethical Hacking platform that allows security professionals to use the same tools and techniques that a hacker would use, so they can find security issues before the attackers do. In Basic Security Testing with Kali Linux, you will learn basic examples of how hackers find out information about your company, find weaknesses in your security, how they gain access to your systems, and most importantly, how to stop them. Completely updated for 2018, this hands on step-by-step guide covers: Kali Linux Overview & Usage Shodan (the "Hacker's Google") Metasploit Tutorials Exploiting Windows and Linux Systems Escalating Privileges in Windows Cracking Passwords and Obtaining Clear Text Passwords Wi-Fi Attacks Kali on a Raspberry Pi & Android Securing your Network And Much More! /ul> Though no computer can

be completely "Hacker Proof" knowing how an attacker works will help put you on the right track of better securing your network!

Written in Packt's Beginner's Guide format, you can easily grasp the concepts and understand the techniques to perform wireless attacks in your lab. Every new attack is described in the form of a lab exercise with rich illustrations of all the steps associated. You will practically implement various attacks as you go along. If you are an IT security professional or a security consultant who wants to get started with wireless testing with Backtrack, or just plain inquisitive about wireless security and hacking, then this book is for you. The book assumes that you have familiarity with Backtrack and basic wireless concepts.

Security Smarts for the Self-Guided IT Professional Protect wireless networks against all real-world hacks by learning how hackers operate. Wireless Network Security: A Beginner's Guide discusses the many attack vectors that target wireless networks and clients--and explains how to identify and prevent them. Actual cases of attacks against WEP, WPA, and wireless clients and their defenses are included. This practical resource reveals how intruders exploit vulnerabilities and gain access to wireless networks. You'll learn how to securely deploy WPA2 wireless networks, including WPA2-Enterprise using digital certificates for authentication. The book provides techniques for dealing with wireless guest access and rogue access points. Next-generation wireless networking technologies, such as lightweight access points and cloud-based wireless solutions, are also discussed. Templates, checklists, and examples give you the hands-on help you need to get started right away. Wireless Network Security: A Beginner's Guide features: Lingo--Common security terms defined so that you're in the know on the job IMHO--Frank and relevant opinions based on the author's years of industry experience In Actual Practice--Exceptions to the rules of security explained in real-world contexts Your Plan--Customizable checklists you can use on the job now Into Action--Tips on how, why, and when to apply new skills and techniques at work This is an excellent introduction to wireless security and their security implications. The technologies and tools are clearly presented with copious illustrations and the level of presentation will accommodate the wireless security neophyte while not boring a mid-level expert to tears. If the reader invests the time and resources in building a lab to follow along with the text, s/he will develop a solid, basic understanding of what "wireless security" is and how it can be implemented in practice. This is definitely a recommended read for its intended audience. - Richard Austin, IEEE CIPHER, IEEE Computer Society's TC on Security and Privacy (E109, July 23, 2012)

Employ the most advanced pentesting techniques and tools to build highly-secured systems and environments About This Book Learn how to build your own pentesting lab environment to practice advanced techniques Customize your own scripts, and learn methods to exploit 32-bit and 64-bit programs Explore a vast variety of stealth techniques to bypass a number of protections when penetration testing Who This Book Is For This book is for anyone who wants to improve their skills in penetration testing. As it follows a step-by-step approach, anyone from a novice to an experienced security tester can learn effective techniques to deal with highly secured environments. Whether you are brand new or a seasoned expert, this book will provide you with the skills you need to successfully create, customize, and plan an advanced penetration test. What You Will Learn A step-by-step methodology to identify and penetrate secured environments Get to know the process to test network services across enterprise architecture when defences are in place Grasp different web application testing methods and how to identify web application protections that are deployed Understand a variety of concepts to exploit software Gain proven post-exploitation techniques to exfiltrate data from the target Get to grips with various stealth techniques to remain undetected and defeat the latest defences Be the first to find out the latest methods to bypass firewalls Follow proven approaches to record and save the data from tests for analysis In Detail The defences continue to improve and become more and more common, but this book will provide you with a number of proven techniques to defeat the latest defences on the networks. The methods and techniques contained will provide you with a powerful arsenal of best practices to increase your penetration testing successes. The processes and methodology will provide you techniques that will enable you to be successful, and the step by step instructions of information gathering and intelligence will allow you to gather the required information on the targets you are testing. The exploitation and post-exploitation sections will supply you with the tools you would need to go as far as the scope of work will allow you. The challenges at the end of each chapter are designed to challenge you and provide real-world situations that will hone and perfect your penetration testing skills. You will start with a review of several well respected penetration testing methodologies, and following this you will learn a step-by-step methodology of professional security testing, including stealth, methods of evasion, and obfuscation to perform your tests and not be detected! The final challenge will allow you to create your own complex layered architecture with defences and protections in place, and provide the ultimate testing range for you to practice the methods shown throughout the book. The challenge is as close to an actual penetration test assignment as you can get! Style and approach The book follows the standard penetration testing stages from start to finish with step-by-step examples. The book thoroughly covers penetration test expectations, proper scoping and planning, as well as enumeration and foot printing

Requiring no prior hacking experience, Ethical Hacking and Penetration Testing Guide supplies a complete introduction to the steps required to complete a penetration test, or ethical hack, from beginning to end. You will learn how to properly utilize and interpret the results of modern-day hacking tools, which are required to complete a penetration test. The book covers a wide range of tools, including Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. Supplying a simple and clean explanation of how to effectively utilize these tools, it details a four-step methodology for conducting an effective penetration test or hack.Providing an accessible introduction to penetration testing and hacking, the book supplies you with a fundamental understanding of offensive security. After completing the book you will be prepared to take on in-depth and advanced topics in hacking and penetration testing. The book walks you through each of the steps and tools in a structured, orderly manner allowing you to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process will allow you to clearly see how the various tools and phases relate to each other. An ideal resource for those who want to learn about ethical hacking but dont know where to start, this book will help take your hacking skills to the next level. The topics described in this book comply with international standards and with what is being taught in international certifications.

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 in-

frastructuresExplore 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.

This is a cookbook with the necessary explained commands and code to learn BackTrack thoroughly. It smoothes your learning curve through organized recipes. This book is for anyone who desires to come up to speed in using BackTrack 5 or for use as a reference for seasoned penetration testers.

Penetration Tester's Open Source Toolkit, Third Edition, discusses the open source tools available to penetration testers, the ways to use them, and the situations in which they apply. Great commercial penetration testing tools can be very expensive and sometimes hard to use or of questionable accuracy. This book helps solve both of these problems. The open source, no-cost penetration testing tools presented do a great job and can be modified by the student for each situation. This edition offers instruction on how and in which situations the penetration tester can best use them. Real-life scenarios support and expand upon explanations throughout. It also presents core technologies for each type of testing and the best tools for the job. The book consists of 10 chapters that covers a wide range of topics such as reconnaissance; scanning and enumeration; client-side attacks and human weaknesses; hacking database services; Web server and Web application testing; enterprise application testing; wireless penetrating testing; and building penetration test labs. The chapters also include case studies where the tools that are discussed are applied. New to this edition: enterprise application testing, client-side attacks and updates on Metasploit and Backtrack. This book is for people who are interested in penetration testing or professionals engaged in penetration testing. Those working in the areas of database, network, system, or application administration, as well as architects, can gain insights into how penetration testers perform testing in their specific areas of expertise and learn what to expect from a penetration test. This book can also serve as a reference for security or audit professionals. Details current open source penetration testing tools Presents core technologies for each type of testing and the best tools for the job New to this edition: Enterprise application testing, client-side attacks and updates on Metasploit and Backtrack

Convert Android to a powerful pentesting platform. Key FeaturesGet up and running with Kali Linux NetHunter Connect your Android device and gain full control over Windows, OSX, or Linux devices Crack Wi-Fi passwords and gain access to devices connected over the same network collecting intellectual dataBook Description Kali NetHunter is a version of the popular and powerful Kali Linux pentesting platform, designed to be installed on mobile devices. Hands-On Penetration Testing with Kali NetHunter will teach you the components of NetHunter and how to install the software. You'll also learn about the different tools included and how to optimize and use a package, obtain desired results, perform tests, and make your environment more secure. Starting with an introduction to Kali NetHunter, you will delve into different phases of the pentesting process. This book will show you how to build your penetration testing environment and set up your lab. You will gain insight into gathering intellectual data, exploiting vulnerable areas, and gaining control over target systems. As you progress through the book, you will explore the NetHunter tools available for exploiting wired and wireless devices. You will work through new ways to deploy existing tools designed to reduce the chances of detection. In the concluding

chapters, you will discover tips and best practices for integrating security hardening into your Android ecosystem. By the end of this book, you will have learned to successfully use a mobile penetration testing device based on Kali NetHunter and Android to accomplish the same tasks you would traditionally, but in a smaller and more mobile form factor. What you will learnChoose and configure a hardware device to use Kali NetHunter Use various tools during pentests Understand NetHunter suite components Discover tips to effectively use a compact mobile platform Create your own Kali NetHunter-enabled device and configure it for optimal results Learn to scan and gather information from a target Explore hardware adapters for testing and auditing wireless networks and Bluetooth devicesWho this book is for Hands-On Penetration Testing with Kali NetHunter is for pentesters, ethical hackers, and security professionals who want to learn to use Kali NetHunter for complete mobile penetration testing and are interested in venturing into the mobile domain. Some prior understanding of networking assessment and Kali Linux will be helpful.

This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them. Topics include Linux command line basics, filesystems, networking, BASH basics, package management, logging, and the Linux kernel and drivers. If you're getting started along the exciting path of hacking, cybersecurity, and pentesting, Linux Basics for Hackers is an excellent first step. Using Kali Linux, an advanced penetration testing distribution of Linux, you'll learn the basics of using the Linux operating system and acquire the tools and techniques you'll need to take control of a Linux environment. First, you'll learn how to install Kali on a virtual machine and get an introduction to basic Linux concepts. Next, you'll tackle broader Linux topics like manipulating text, controlling file and directory permissions, and managing user environment variables. You'll then focus in on foundational hacking concepts like security and anonymity and learn scripting skills with bash and Python. Practical tutorials and exercises throughout will reinforce and test your skills as you learn how to: - Cover your tracks by changing your network information and manipulating the rsyslog logging utility - Write a tool to scan for network connections, and connect and listen to wireless networks - Keep your internet activity stealthy using Tor, proxy servers, VPNs, and encrypted email - Write a bash script to scan open ports for potential targets - Use and abuse services like MySQL, Apache web server, and OpenSSH - Build your own hacking tools, such as a remote video spy camera and a password cracker Hacking is complex, and there is no single way in. Why not start at the beginning with Linux Basics for Hackers?

Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In Penetration Testing, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine-based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to: -Crack passwords and wireless network keys with brute-forcing and wordlists -Test web applications for vulnerabilities -Use the Metasploit Framework to launch exploits and write your own Metasploit modules -Automate social-engineering attacks -Bypass antivirus software -Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.

Master the art of penetration testing with BackTrack.

The Basics of Hacking and Penetration Testing, Second Edition, serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end. The book teaches students how to properly utilize and interpret the results of the modern-day hacking tools required to complete a penetration test. It provides a simple and clean explanation of how to effectively utilize these tools, along with a four-step methodology for conducting a penetration test or hack, thus equipping students with the know-how required to jump start their careers and gain a better understanding of offensive security. Each chapter contains hands-on examples and exercises that are designed to teach learners how to interpret results and utilize those results in later phases. Tool coverage includes: Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. This is complemented by PowerPoint slides for use in class. This book is an ideal resource for security consultants, beginning InfoSec professionals, and students. Each chapter contains hands-on examples and exercises that are designed to teach you how to interpret the results and utilize those results in later phases. Written by an author who works in the field as a Penetration Tester and who teaches Offensive Security, Penetration Testing, and Ethical Hacking, and Exploitation classes at Dakota State University. Utilizes the Kali Linux distribution and focuses on the seminal tools required to complete a penetration test.