Kali Linux Revealed Mastering The Penetration Testing

Evade antiviruses and bypass firewalls with the most widely used penetration testing frameworks Key Features Gain insights into the latest antivirus evasion techniques Set up a complete pentesting environment using Metasploit and virtual machines Discover a variety of tools and techniques that can be used with Kali Linux Book Description Penetration testing or ethical hacking is a legal and foolproof way to identify vulnerabilities in your system. With thorough penetration testing, you can secure your system against the majority of threats. This Learning Path starts with an in-depth explanation of what hacking and penetration testing is. You'll gain a deep understanding of classical SQL and command injection flaws, and discover ways to exploit these flaws to secure your system. You'll also learn how to create and customize payloads to evade antivirus software and bypass an organization's defenses. Whether it's exploiting server vulnerabilities and attacking client systems, or compromising mobile phones and installing backdoors, this Learning Path will guide you through all this and more to improve your defense against online attacks. By the end of this Learning Path, you'll have the knowledge and skills you need to invade a system and identify all its vulnerabilities. This Learning Path includes content from the following Packt products: Web Penetration Testing with Kali Linux - Third Edition by Juned Ahmed Ansari and Gilberto Najera-Gutierrez Metasploit Penetration Testing Cookbook - Third Edition by Abhinav Singh , Monika Agarwal, et al What you will learn Build and analyze Metasploit modules in Ruby Integrate Metasploit with other penetration testing tools Use server-side attacks to detect vulnerabilities in web servers and their applications Explore automated attacks such as fuzzing web applications Identify the difference between hacking a web application and network hacking Deploy Metasploit with the Penetration Testing Execution Standard (PTES) Use MSFvenom to generate payloads and backdoor files, and create shellcode Who this book is for This Learning Path is designed for security professionals, web programmers, and pentesters who want to learn vulnerability exploitation and make the most of the Metasploit framework. Some understanding of penetration testing and Metasploit is required, but basic system administration skills and the ability to read code are a must.

Over 60 powerful recipes to scan, exploit, and crack wireless networks for ethical purposes About This Book Expose wireless security threats through the eyes of an attacker, Recipes to help you proactively identify vulnerabilities and apply intelligent remediation, Acquire and apply key wireless pentesting skills used by industry experts Who This Book Is For If you are a security professional, administrator, and a network professional who wants to enhance their wireless penetration testing skills and knowledge then this book is for you. Some prior experience with networking security and concepts is expected. What You Will Learn Deploy and configure a wireless cyber lab that resembles an enterprise production environment Install Kali Linux 2017.3 on your laptop and configure the wireless adapter Learn the fundamentals of commonly used wireless penetration testing techniques Scan and enumerate Wireless LANs and access points Use vulnerability scanning techniques to reveal flaws and weaknesses Attack Access Points to gain access to critical networks In Detail More and more organizations are moving towards wireless networks, and Wi-Fi is a popular choice. The security of wireless networks is more important than ever before due to the widespread usage of Wi-Fi networks. This book contains recipes that will enable you to maximize the success of your wireless network testing using the advanced ethical hacking features of Kali Linux. This book will go through techniques associated with a wide range of wireless penetration tasks, including WLAN discovery scanning, WEP cracking, WPA/WPA2 cracking, attacking access point systems, operating system identification, vulnerability mapping, and validation of results. You will learn how to utilize the arsenal of tools available in Kali Linux to penetrate any wireless networking environment. You will also be shown how to identify remote services, how to assess security risks, and how various attacks are performed. By finishing the recipes, you will feel confident conducting wireless penetration tests and will be able to protect yourself or your organization from wireless security threats. Style and approach The book will provide the foundation principles, techniques, and in-depth analysis to effectively master wireless penetration testing. It will aid you in understanding and mastering many of the most powerful and useful wireless testing techniques in the industry.

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.

Kali Linux RevealedMastering the Penetration Testing Distribution

Develop advanced skills for working with Linux systems on-premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem, packages, users, processes, and daemonsDeploy Linux to the cloud with AWS, Azure, and KubernetesBook Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command line and how to work with files, packages, and filesystems. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. You'll also learn how to deploy Linux to the cloud using

AWS and Azure. By the end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem, network, security, and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux, AppArmor, and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you. Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book.

Security Testing, Penetration Testing, and Ethical Hacking

Mastering Kali Linux Wireless Pentesting

Linux All-in-One For Dummies

Strengthen your defense against web attacks with Kali Linux and Metasploit

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Kali Linux Wireless Penetration Testing Essentials

Netcat Power Tools

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 FRIGHTENED MONSTERS. STOLEN TIME. AND ONE SERIOUSLY UNDERESTIMATED DAMSEL. Katie ran from the magical world years ago. She never planned on being dragged back in by a prophesying clamshell. The seers believe she alone can prevent an apocalypse of ruined time and broken worlds. Bran the Crow King believes she can save him from his cannibalistic grandfather. Katie believes they're all nuts. One thing is for certain: she's not waiting around for help. Operation Katie Saves her Own Damn Self is officially on.

This book is a practical, hands-on guide to learning and performing SET attacks with multiple examples.Kali Linux Social Engineering is for penetration testers who want to use BackTrack in order to test for social engineering vulnerabilities or for those who wish to master the art of social engineering attacks.

Master Wireshark to solve real-world security problems If you don’t already use Wireshark for a wide range of information security tasks, you will after this book. Mature and powerful, Wireshark is commonly used to find root cause of challenging network issues. This book extends that power to information security professionals, complete with a downloadable, virtual lab environment. Wireshark for Security Professionals covers both offensive and defensive concepts that can be applied to essentially any InfoSec role. Whether into network security, malware analysis, intrusion detection, or penetration testing, this book demonstrates Wireshark through relevant and useful examples. Master Wireshark through both lab scenarios and exercises. Early in the book, a virtual lab environment is provided for the purpose of getting hands-on experience with Wireshark. Wireshark is combined with two popular platforms: Kali, the security-focused Linux distribution, and the Metasploit Framework, the open-source framework for security testing. Lab-based virtual systems generate network traffic for analysis, investigation and demonstration. In addition to following along with the labs you will be challenged with end-of-chapter exercises to expand on covered material. Lastly, this book explores Wireshark with Lua, the light-weight programming language. Lua allows you to extend and customize Wireshark’s features for your needs as a security professional. Lua source code is available both in the

book and online. Lua code and lab source code are available online through GitHub, which the book also introduces. The book's final two chapters greatly draw on Lua and TShark, the command-line interface of Wireshark. By the end of the book you will gain the following: Master the basics of Wireshark Explore the virtual w4sp-lab environment that mimics a real-world network Gain experience using the Debian-based Kali OS among other systems Understand the technical details behind network attacks Execute exploitation and grasp offensive and defensive activities, exploring them through Wireshark Employ Lua to extend Wireshark features and create useful scripts To sum up, the book content, labs and online material, coupled with many referenced sources of PCAP traces, together present a dynamic and robust manual for information security professionals seeking to leverage Wireshark.

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.

Beginning Ethical Hacking with Kali Linux

A Hands-On Introduction to Hacking

Basic Security Testing with Kali Linux 2

Kali Linux – Assuring Security by Penetration Testing

A Beginner's Guide with Practical Examples to Learn the Basics of CyberSecurity and Ethical Hacking,Testing Infrastructure Security with Kali Linux

Linux Basics for Hackers

Mastering Kali Linux for Advanced Penetration Testing

A practical guide to testing your network's security with Kali Linux, the preferred choice of penetration testers and hackers. About This Book Employ advanced pentesting techniques with Kali Linux to build highly-secured systems Get to grips with various stealth techniques to remain undetected and defeat the latest defenses and follow proven approaches Select and configure the most effective tools from Kali Linux to test network security and prepare your business against malicious threats and save costs Who This Book Is For Penetration Testers, IT professional or a security consultant who wants to maximize the success of your network testing using some of the advanced features of Kali Linux, then this book is for you.Some prior exposure to basics of penetration testing/ethical hacking would be helpful in making the most out of this title. What You Will Learn Select and configure the most effective tools from Kali Linux to test network security Employ stealth to avoid detection in the network being tested Recognize when stealth attacks are being used against your network Exploit networks and data systems using wired and wireless networks as well as web services Identify and download valuable data from target systems Maintain access to compromised systems Use social engineering to compromise the weakest part of the network—the end users In Detail This book will take you, as a tester or security practitioner through the journey of reconnaissance, vulnerability assessment, exploitation, and post-exploitation activities used by penetration testers and hackers. We will start off by using a laboratory environment to validate tools and techniques, and using an application that supports a collaborative approach to penetration testing. Further we will get acquainted with passive reconnaissance with open source intelligence and active reconnaissance of the external and internal networks. We will also focus on how to select, use, customize, and interpret the results from a variety of different vulnerability scanners. Specific routes to the target will also be examined, including bypassing physical security and exfiltration of data using different techniques. You will also get to grips with concepts such as social engineering, attacking wireless networks, exploitation of web applications and remote access connections. Later you will learn the practical aspects of attacking user client systems by backdooring executable files. You will focus on the most vulnerable part of the network—directly and bypassing the controls, attacking the end user and maintaining persistence access through social media. You will also explore approaches to carrying out advanced penetration testing in tightly secured environments, and the book's hands-on approach will help you understand everything you need to know during a Red teaming exercise or penetration testing Style and approach An advanced level tutorial that follows a practical approach and proven methods to maintain top notch security of your networks.

Learn to harness the power and versatility of Netcat and understand why it remains an integral part of IT and security toolkits to this day Learn something new in an Instant! A short, fast, focused guide delivering immediate results. Downloading, compiling, and installing Netcat on Windows and Linux platforms Establish a raw network connection so you can understand how Netcat processes information

using a simplistic chat interface Establish and maintain a remote shell / back door on various operating systems In Detail As a featured networking utility, Netcat uses TCP/IP protocols to read and write data across network connections. Netcat is a feature rich backend network debugging and exploration tool with the ability to create almost any type of connection you would need. "Netcat Starter Guide" is a practical, hands-on guide that provides you with a simple and straightforward roadmap to proceed from newbie to seasoned professional with the Netcat utility. By progressing from simple to more complex uses, this book will inform and explain many of the primary use cases that are only limited by your imagination. This book explores the classic Netcat utility, and breaks down the common ways in which it can be utilized in the field. Beginning with compilation and installation, this book quickly has you utilizing the core features of the utility to perform file transfers regardless of commonly blocked firewall ports, perform real-world interrogation of services and listening ports to discover the true intention of an application or service, and tunnelling remotely into systems to produce remote command shells.

Your ultimate guide to pentesting with Kali Linux Kali is a popular and powerful Linux distribution used by cybersecurity professionals around the world. Penetration testers must master Kali's varied library of tools to be effective at their work. The Kali Linux Penetration Testing Bible is the hands-on and methodology guide for pentesting with Kali. You'll discover everything you need to know about the tools and techniques hackers use to gain access to systems like yours so you can erect reliable defenses for your virtual assets. Whether you're new to the field or an established pentester, you'll find what you need in this comprehensive guide. Build a modern dockerized environment Discover the fundamentals of the bash language in Linux Use a variety of effective techniques to find vulnerabilities (OSINT, Network Scan, and more) Analyze your findings and identify false positives and uncover advanced subjects, like buffer overflow, lateral movement, and privilege escalation Apply practical and efficient pentesting workflows Learn about Modern Web Application Security Secure SDLC Automate your penetration testing with Python

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 LearnMaster 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 systemsWho This Book Is For Developers new to ethical hacking with a basic understanding of Linux programming.

Hiding Behind the Keyboard: Uncovering Covert Communication Methods with Forensic Analysis exposes the latest electronic covert communication techniques used by cybercriminals, along with the needed investigative methods for identifying them. The book shows how to use the Internet for legitimate covert communication, while giving investigators the information they need for detecting cybercriminals who attempt to hide their true identity. Intended for practitioners and investigators, the book offers concrete examples on how to communicate securely, serving as an ideal reference for those who truly need protection, as well as those who investigate cybercriminals. Covers high-level strategies, what they can achieve, and how to implement them Shows discovery and mitigation methods using examples, court cases, and more Explores how social media sites and gaming technologies can be used for illicit communications activities Explores the currently in-use technologies such as TAILS and TOR that help with keeping anonymous online

Metasploit

Secure your network with Kali Linux 2019.1 - the ultimate white hat hackers' toolkit

Practical Guide to Penetration Testing

Half-Shell Propheces

Computational Techniques for Resolving Security Issues

Ethical Hacking and Penetration Testing Made Easy

Kali Linux Penetration Testing Bible

▶ Are you interested in learning more about hacking and how you can use these techniques to keep yourself and your network as safe as possible? ▶ Would you like to work with Kali Linux to protect your network and to make sure that hackers are not able to get onto your computer and cause trouble or steal your personal information? ▶ Have you ever been interested in learning more about the process of hacking, how to avoid

being taken advantage of, and how you can use some of techniques for your own needs? This guidebook is going to provide us with all of the information that we need to know about Hacking with Linux. Many people worry that hacking is a bad process and that it is not the right option for them. The good news here is that hacking can work well for not only taking information and harming others but also for helping you keep your own network and personal information as safe as possible. Inside this guidebook, we are going to take some time to explore the world of hacking, and why the Kali Linux system is one of the best to help you get this done. We explore the different types of hacking, and why it is beneficial to learn some of the techniques that are needed to perform your own hacks and to see the results that we want with our own networks. In this guidebook, we will take a look at a lot of the different topics and techniques that we need to know when it comes to working with hacking on the Linux system. Some of the topics that we are going to take a look at here include: The different types of hackers that we may encounter and how they are similar and different. How to install the Kali Linux onto your operating system to get started. The basics of cybersecurity, web security, and cyberattacks and how these can affect your computer system and how a hacker will try to use you. The different types of malware that hackers can use against you. How a man in the middle, DoS, Trojans, viruses, and phishing can all be tools of the hacker. And so much more. Hacking is often an option that most people will not consider because they worry that it is going to be evil, or that it is only used to harm others. But as we will discuss in this guidebook, there is so much more to the process than this. ★ When you are ready to learn more about hacking with Kali Linux and how this can benefit your own network and computer, make sure to check out this guidebook to get started!

In modern computing a program is usually distributed among several processes. The fundamental challenge when developing reliable and secure distributed programs is to support the cooperation of processes required to execute a common task, even when some of these processes fail. Failures may range from crashes to adversarial attacks by malicious processes. Cachin, Guerraoui, and Rodrigues present an introductory description of fundamental distributed programming abstractions together with algorithms to implement them in distributed systems, where processes are subject to crashes and malicious attacks. The authors follow an incremental approach by first introducing basic abstractions in simple distributed environments, before moving to more sophisticated abstractions and more challenging environments. Each core chapter is devoted to one topic, covering reliable broadcast, shared memory, consensus, and extensions of consensus. For every topic, many exercises and their solutions enhance the understanding This book represents the second edition of "Introduction to Reliable Distributed Programming". Its scope has been extended to include security against malicious actions by non-cooperating processes. This important domain has become widely known under the name "Byzantine fault-tolerance".

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.

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

Test your wireless network's security and master advanced wireless penetration techniques using Kali Linux About This Book Develop your skills using attacks such as wireless cracking, Man-in-the-Middle, and Denial of Service (DOS), as well as extracting sensitive information from wireless networks Perform advanced wireless assessment and penetration tests Use Embedded Platforms, Raspberry PI, and Android in wireless penetration testing with Kali Linux Who This Book Is For If you are an intermediate-level wireless security consultant in Kali Linux and want to be the go-to person for Kali Linux wireless security in your organisation, then this is the book for you. Basic understanding of the core Kali Linux concepts is expected. What You Will Learn Fingerprint wireless networks with the various tools available in Kali Linux Learn various techniques to exploit wireless access points using CSRF Crack WPA/WPA2/WPS and crack wireless encryption using Rainbow tables more quickly Perform man-in-the-middle attack on wireless clients Understand client-side attacks, browser exploits, Java vulnerabilities, and social engineering Develop advanced sniffing and PCAP analysis skills to extract sensitive information such as DOC, XLS, and PDF documents from wireless networks Use Raspberry PI and OpenWrt to perform advanced wireless attacks Perform a DOS test using various techniques and tools In Detail Kali Linux is a Debian-based Linux distribution designed for digital forensics and penetration testing. It gives access to a large collection of

security-related tools for professional security testing - some of the major ones being Nmap, Aircrack-ng, Wireshark, and Metasploit. This book will take you on a journey where you will learn to master advanced tools and techniques to conduct wireless penetration testing with Kali Linux. You will begin by gaining an understanding of setting up and optimizing your penetration testing environment for wireless assessments. Then, the book will take you through a typical assessment from reconnaissance, information gathering, and scanning the network through exploitation and data extraction from your target. You will get to know various ways to compromise the wireless network using browser exploits, vulnerabilities in firmware, web-based attacks, client-side exploits, and many other hacking methods. You will also discover how to crack wireless networks with speed, perform man-in-the-middle and DOS attacks, and use Raspberry Pi and Android to expand your assessment methodology. By the end of this book, you will have mastered using Kali Linux for wireless security assessments and become a more effective penetration tester and consultant. Style and approach This book uses a step-by-step approach using real-world attack scenarios to help you master the wireless penetration testing techniques.

Hacking with Kali Linux: a Guide to Ethical Hacking

Kali Linux Web Penetration Testing Cookbook

The Basics of Hacking and Penetration Testing

Uncovering Covert Communication Methods with Forensic Analysis

Kali Linux

Mastering the Penetration Testing Distribution

Android Hacker's Handbook

Over 120 recipes to perform advanced penetration testing with Kali Linux About This Book Practical recipes to conduct effective penetration testing using the powerful Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and many more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes Who This Book Is For This book is aimed at IT security professionals, pentesters, and security analysts who have basic knowledge of Kali Linux and want to conduct advanced penetration testing techniques. What You Will Learn Installing, setting up and customizing Kali for pentesting on multiple platforms Pentesting routers and embedded devices Bug hunting 2017 Pwning and escalating through corporate network Buffer overflows 101 Auditing wireless networks Fiddling around with software-defned radio Hacking on the run with NetHunter Writing good quality reports In Detail With the current rate of hacking, it is very important to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2016.2) according to your needs, and move on to core functionalities. This book will start with the installation and configuration of Kali Linux so that you can perform your tests. You will learn how to plan attack strategies and perform web application exploitation using tools such as Burp, and Jexboss. You will also learn how to perform network exploitation using Metasploit, Sparta, and Wireshark. Next, you will perform wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng. Lastly, you will learn how to create an optimum quality pentest report! By the end of this book, you will know how to conduct advanced penetration testing thanks to the book's crisp and task-oriented recipes. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques to perform penetration testing with Kali Linux.

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.

Basic Security Testing with Kali Linux 2 Kali Linux 2 (2016) is an Ethical Hacking platform that allows good guys to use the same tools and techniques that a hacker would use, so they can find security issues before the bad guys do. In Basic Security Testing with Kali Linux 2, you will learn basic examples of how hackers find out information about your company, find weaknesses in your security and how they gain access to your system. Completely updated for 2016, this step-by-step guide covers: Kali Linux Introduction and Overview 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 Securing your Network And Much More! 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!

Whether you're a veteran or an absolute n00b, this is the best place to start with Kali Linux, the security professional's platform of choice, and a truly industrial-grade, and world-class operating system distribution-mature, secure, and enterprise-ready.

This book provides an overview of the kill chain approach to penetration testing, and then focuses on using Kali Linux to provide examples of

how this methodology is applied in the real world. After describing the underlying concepts, step-by-step examples are provided that use selected tools to demonstrate the techniques.If you are an IT professional or a security consultant who wants to maximize the success of your network testing using some of the advanced features of Kali Linux, then this book is for you. This book will teach you how to become an expert in the pre-engagement, management, and documentation of penetration testing by building on your understanding of Kali Linux and wireless concepts.
Identify and assess vulnerabilities present in your wireless network, Wi-Fi, and Bluetooth enabled devices to improve your wireless security
3 in 1: Beginners Guide+ Simple and Effective Strategies+ Advance Method and Strategies to Learn Kali Linux

Wireshark for Security Professionals
Hands-On Penetration Testing on Windows
Hacking with Kali
Penetration Testing

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.
The first comprehensive guide to discovering and preventingattacks on the Android OS As the Android operating system continues to increase its shareof the smartphone market, smartphone hacking remains a growingthreat. Written by experts who rank among the world's foremostAndroid security researchers, this book presents vulnerabilitydiscovery, analysis, and exploitation tools for the good guys.Following a detailed explanation of how the Android OS works andits overall security architecture, the authors examine howvulnerabilities can be discovered and exploits developed forvarious system components, preparing you to defend againstthem. If you are a mobile device administrator, security researcher,Android app developer, or consultant responsible for evaluatingAndroid security, you will find this guide is essential to yourtoolbox. A crack team of leading Android security researchers explainAndroid security risks, security design and architecture, rooting,fuzz testing, and vulnerability analysis Covers Android application building blocks and security as wellas debugging and auditing Android apps Prepares mobile device administrators, security researchers,Android app developers, and security consultants to defend Androidsystems against attack Android Hacker's Handbook is the first comprehensiveresource for IT professionals charged with smartphonesecurity.
A complete guide and reference to five major Linux distributions Linux continues to grow in popularity worldwide as a low-cost, reliable operating system for enterprise use. Nine minibooks in this guide cover everything administrators need to know about the five leading versions: Ubuntu, Fedora Core, OpenSUSE, Mint, and Mandriva. The companion DVD includes full Ubuntu installations and ISO images for the other four, saving hours of downloading time. The open source Linux operating system is gaining market share around the world for both desktop and server use; this soup-to-nuts guide covers installation and everything else administrators need to know about Ubuntu, Fedora Core, OpenSUSE, Mint, and Mandriva Nine self-contained minibooks cover Linux basics, desktops, networking, Internet, administration, security, Linux servers, programming, and scripting Updated to cover the newest versions of the five top distributions, with complete installation instructions and a DVD including the full Ubuntu installations and ISO images for the others Linux users and administrators will be able to install and sample five popular Linux flavors with the information in Linux All-in-One For Dummies. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.
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.
Manuscript 1: Kali Linux is believed to be amongst the best open-source security packages, which

can be used by an ethical hacker. It consists of different sets of tools, which are divided into various categories. The user can install it as an operating system in the machine. The applications of Kali Linux have certainly evolved since it was first developed. Now, it is not only the best platform available for an information security professional, but it has become an industrial-level operation system distribution. In this book, you will learn about -The basics of Kali Linux-How to install Kali Linux-Steps to download Kali Linux-About ARM devices-Tips for troubleshooting-The applications and use of Kali Linux-Different tools available in Kali Linux, and much more! Manuscript 2: The book contains a practical approach to understand the different aspects of Kali Linux. It starts with a basic introduction to Kali Linux, followed by understanding how the hacking process works, and then understanding cybersecurity concept. With this core understanding, we then move to how Kali Linux is connected with Debian. To help new beginners, we also cover Linux Fundamentals. Next, our focus completely changes to what Kali Linux offers. We learn about Kali Linux configuration, documentation, community, security, monitoring, security assessment, and tools.In this book, you will learn the following: -Kali Linux introduction and installation-Introduction to hacking and hacking process-Learning cybersecurity concepts-Linux fundamentals refresh-Kali Linux configuration-Kali Linux Documentation and Community-Debian Package Management-Kali Linux Security Assessment-Kali Linux Tools-Network ScanningManuscript 3: This book is for you if you are a technical professional who can benefit from knowing how penetration testers work. You will gain knowledge about the techniques used by penetration testers, which you could further use to make your systems secure. The knowledge in this book is not limited to developers, server admins, database admins, or network admins. You could transition from being a technical professional to a professional penetration tester by reading through this book, which will give you all the information you need. The knowledge that you already possess as a technical expert will give you the advantage of learning about penetration testing and Kali Linux in no time. The book will take you through examples that give you a step by step guide to using Kali Linux tools in all the five stages of the penetration testing life cycle. By trying out these examples by setting up your own Kali Linux system (which you already did in book one), you will be on your way to becoming a Penetration Tester. Throughout this book, you will gather information on the following: -How do firewalls work in Kali Linux? -How does the hacking process work? -An introduction to Reconnaissance-An introduction to Scanning-Applications used in reconnaissance and scanning-An introduction to Exploitation-Applications and techniques used in exploitation-How do you continue to maintain access into the system? -What is reporting and the different tools used in reportingIf you are an aspiring security engineer, the understanding of penetration testing will help you make your systems at home or your organization ever more secure. It will help you broaden your thought process and let you foresee how an attacker sees things in an information system.

Practical Penetration Testing Techniques
Advanced Penetration Testing
Kali Linux - An Ethical Hacker's Cookbook
Metasploit Revealed: Secrets of the Expert Pentester
Kali Linux Intrusion and Exploitation Cookbook
Kali Linux Social Engineering
Hacking the World's Most Secure Networks

This text introduces the spirit and theory of hacking as well as the science behind it all; it also provides some core techniques and tricks of hacking so you can think like a hacker, write your own hacks or thwart potential system attacks.

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 infrastructuresExplore 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 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?

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.

Written as an interactive tutorial, this book covers the core of Kali Linux with real-world examples and step-by-step instructions to provide professional guidelines and recommendations for you. The book is designed in a simple and intuitive manner that allows you to explore the whole Kali Linux testing process or study parts of it individually. If you are an IT security professional who has a basic knowledge of Unix/Linux operating systems, including an awareness of information security factors, and want to use Kali Linux for penetration testing, then this book is for you.

Kali Linux Revealed

End-to-end penetration testing solutions

Getting Started with Networking, Scripting, and Security in Kali

Unleash Kali Linux, PowerShell, and Windows debugging tools for security testing and analysis

Kali Linux Wireless Penetration Testing: Beginner's Guide

Hacking- The art Of Exploitation

Build your defense against complex attacks

Exploit the secrets of Metasploit to master the art of penetration testing. About This Book Discover techniques to integrate Metasploit with the industry's leading tools Carry out penetration testing in highly-secured environments with Metasploit and acquire skills to build your defense against organized and complex attacks Using the Metasploit framework, develop exploits and generate modules for a variety of real-world scenarios Who This Book Is For This course is for penetration testers, ethical hackers, and security professionals who'd like to master the Metasploit framework and explore approaches to carrying out advanced penetration testing to build highly secure networks. Some familiarity with networking and security concepts is expected, although no familiarity of Metasploit is required. What You Will Learn Get to know the absolute basics of the Metasploit framework so you have a strong foundation for advanced attacks Integrate and use various supporting tools to make Metasploit even more powerful and precise Test services such as databases, SCADA, and many more Attack the client side with highly advanced techniques Test mobile and tablet devices with Metasploit Understand how to Customize Metasploit modules and modify existing exploits Write simple yet powerful Metasploit automation scripts Explore steps involved in post-exploitation on Android and mobile platforms In Detail Metasploit is a popular penetration testing framework that has one of the largest exploit databases around. This book will show you exactly how to prepare yourself against the attacks you will face every day by simulating real-world possibilities. This learning path will begin by introducing you to Metasploit and its functionalities. You will learn how to set up and configure Metasploit on various platforms to create a virtual test environment. You will also get your hands on various tools and components and get hands-on experience with carrying out client-side attacks. In the next part of this learning path, you'll develop the ability to perform testing on various services such as SCADA, databases, IoT, mobile, tablets, and many more services. After this training, we jump into real-world sophisticated scenarios where performing penetration tests are a challenge. With real-life case studies, we take you on a journey through client-side attacks using Metasploit and various scripts built on the Metasploit framework. The final instalment of your learning journey will be covered through a bootcamp approach. You will be able to bring together the learning together and speed up and integrate Metasploit with leading industry tools for penetration testing. You'll finish by working on challenges based on user's preparation and work towards solving the challenge. The course provides you with highly practical content explaining Metasploit from the following Packt books: Metasploit for Beginners Mastering Metasploit, Second Edition Metasploit Bootcamp Style and approach This pragmatic learning path is packed with start-to-end instructions from getting started with Metasploit to effectively building new things and solving real-world examples. All the key concepts are explained with the help of examples and demonstrations that will help you understand everything to use this essential IT power tool.

Originally released in 1996, Netcat is a netowrking program designed to read and write data across both Transmission Control Protocol TCP and User Datagram Protocol (UDP) connections using the TCP/Internet Protocol (IP) protocol suite. Netcat is often referred to as a "Swiss Army knife" utility, and for good reason. Just like the multi-function usefullness of the venerable Swiss Army pocket knife, Netcat's functionality is helpful as both a standalone program and a backe-end tool in a wide range of applications. Some of the many uses of Netcat include port scanning, transferring files, grabbing banners, port listening and redirection, and more nefariously, a backdoor. This is the only book dedicated to comprehensive coverage of the tool's many features, and by the end of this book, you'll discover how Netcat can be one of the most valuable tools in your arsenal. * Get Up and Running with Netcat Simple yet powerful...Don't let the trouble-free installation and the easy command line belie the fact that Netcat is indeed a potent and powerful program. * Go PenTesting with Netcat Master Netcat's port scanning and service identification capabilities as well as obtaining Web server application information. Test and verify outbound firewall rules and avoid detection by using antivirus software and the Window Firewall. Also,

create a backdoor using Netcat. * Conduct Enumeration and Scanning with Netcat, Nmap, and More! Netcat's not the only game in town...Learn the process of network of enumeration and scanning, and see how Netcat along with other tools such as Nmap and Scanrand can be used to thoroughly identify all of the assets on your network. * Banner Grabbing with Netcat Banner grabbing is a simple yet highly effective method of gathering information about a remote target, and can be performed with relative ease with the Netcat utility. * Explore the Dark Side of Netcat See the various ways Netcat has been used to provide malicious, unauthorized access to their targets. By walking through these methods used to set up backdoor access and circumvent protection mechanisms through the use of Netcat, we can understand how malicious hackers obtain and maintain illegal access. Embrace the dark side of Netcat, so that you may do good deeds later. * Transfer Files Using Netcat The flexability and simple operation allows Netcat to fill a niche when it comes to moving a file or files in a quick and easy fashion. Encryption is provided via several different avenues including integrated support on some of the more modern Netcat variants, tunneling via third-party tools, or operating system integrated IPsec policies. * Troubleshoot Your Network with Netcat Examine remote systems using Netat's scanning ability. Test open ports to see if they really are active and see what protocls are on those ports. Communicate with different applications to determine what problems might exist, and gain insight into how to solve these problems. * Sniff Traffic within a System Use Netcat as a sniffer within a system to collect incoming and outgoing data. Set up Netcat to listen at ports higher than 1023 (the well-known ports), so you can use Netcat even as a normal user. * Comprehensive introduction to the #4 most popular open source security tool available * Tips and tricks on the legitimate uses of Netcat * Detailed information on its nefarious purposes * Demystifies security issues surrounding Netcat * Case studies featuring dozens of ways to use Netcat in daily tasks

Build a better defense against motivated, organized, professional attacks Advanced Penetration Testing: Hacking the World's Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation. Featuring techniques not taught in any certification prep or covered by common defensive scanners, this book integrates social engineering, programming, and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments. From discovering and creating attack vectors, and moving unseen through a target enterprise, to establishing command and exfiltrating data—even from organizations without a direct Internet connection—this guide contains the crucial techniques that provide a more accurate picture of your system's defense. Custom coding examples use VBA, Windows Scripting Host, C, Java, JavaScript, Flash, and more, with coverage of standard library applications and the use of scanning tools to bypass common defensive measures. Typical penetration testing consists of low-level hackers attacking a system with a list of known vulnerabilities, and defenders preventing those hacks using an equally well-known list of defensive scans. The professional hackers and nation states on the forefront of today's threats operate at a much more complex level—and this book shows you how to defend your high security network. Use targeted social engineering pretexts to create the initial compromise Leave a command and control structure in place for long-term access Escalate privilege and breach networks, operating systems, and trust structures Infiltrate further using harvested credentials while expanding control Today's threats are organized, professionally-run, and very much for-profit. Financial institutions, health care organizations, law enforcement, government agencies, and other high-value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals. Advanced Penetration Testing goes beyond Kali linux and Metasploit and to provide you advanced pen testing for high security networks.

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

Over 70 recipes for system administrators or DevOps to master Kali Linux 2 and perform effective security assessments About This Book Set up a penetration testing lab to conduct a preliminary assessment of attack surfaces and run exploits Improve your testing efficiency with the use of automated vulnerability scanners Work through step-by-step recipes to detect a wide array of vulnerabilities, exploit them to analyze their consequences, and identify security anomalies Who This Book Is For This book is intended for those who want to know more about information security. In particular, it's ideal for system administrators and system architects who want to ensure that the infrastructure and systems they are creating and managing are secure. This book helps both beginners and intermediates by allowing them to use it as a reference book and to gain in-depth knowledge. What You Will Learn Understand the importance of security assessments over merely setting up and managing systems/processes Familiarize yourself with tools such as OPENVAS to locate system and network vulnerabilities Discover multiple solutions to escalate privileges on a compromised machine Identify security anomalies in order to make your infrastructure secure and further strengthen it Acquire the skills to prevent infrastructure and application vulnerabilities Exploit vulnerabilities that require a complex setup with the help of Metasploit In Detail With the increasing threats of breaches and attacks on critical infrastructure, system administrators and architects can use Kali Linux 2.0 to ensure their infrastructure is secure by finding out known vulnerabilities and safeguarding their infrastructure against unknown vulnerabilities. This practical cookbook-style guide contains chapters carefully structured in three phases – information gathering, vulnerability assessment, and penetration

testing for the web, and wired and wireless networks. It's an ideal reference guide if you're looking for a solution to a specific problem or learning how to use a tool. We provide hands-on examples of powerful tools/scripts designed for exploitation. In the final section, we cover various tools you can use during testing, and we help you create in-depth reports to impress management. We provide system engineers with steps to reproduce issues and fix them. Style and approach This practical book is full of easy-to-follow recipes with based on real-world problems faced by the authors. Each recipe is divided into three sections, clearly defining what the recipe does, what you need, and how to do it. The carefully structured recipes allow you to go directly to your topic of interest.

Improving your Penetration Testing Skills

Hiding Behind the Keyboard

Introduction to Reliable and Secure Distributed Programming

Kali Linux Wireless Penetration Testing Cookbook

Mastering Metasploit

The Hacker Playbook 2

Learning Kali Linux

A comprehensive and detailed, step by step tutorial guide that takes you through important aspects of the Metasploit framework. If you are a penetration tester, security engineer, or someone who is looking to extend their penetration testing skills with Metasploit, then this book is ideal for you. The readers ofthis book must have a basic knowledge of using Metasploit. They are also expected to have knowledge of exploitation and an indepth understanding of object-oriented programming languages.

The Penetration Tester's Guide

A comprehensive guide to installing, configuring, and maintaining Linux systems in the modern data center

Mastering Linux Administration

Instant Netcat Starter

Using Wireshark and the Metasploit Framework