

Ethical Hacking And Penetration Testing By Rafay Baloch

Dive into the world of securing digital networks, cloud, IoT, mobile infrastructure, and much more. KEY FEATURES ? Courseware and practice papers with solutions for C.E.H. v11. ? Includes hacking tools, social engineering techniques, and live exercises. ? Add on coverage on Web apps, IoT, cloud, and mobile Penetration testing. DESCRIPTION The 'Certified Ethical Hacker's Guide' summarises all the ethical hacking and penetration testing fundamentals you'll need to get started professionally in the digital security landscape. The readers will be able to approach the objectives globally, and the knowledge will enable them to analyze and structure the hacks and their findings in a better way. The book begins by making you ready for the journey of a seasonal, ethical hacker. You will get introduced to very specific topics such as reconnaissance, social engineering, network intrusion, mobile and cloud hacking, and so on. Throughout the book, you will find many practical scenarios and get hands-on experience using tools such as Nmap, BurpSuite, OWASP ZAP, etc. Methodologies like brute-forcing, wardriving, evil twinning, etc. are explored in detail. You will also gain a stronghold on theoretical concepts such as hashing, network protocols, architecture, and data encryption in real-world environments. In the end, the evergreen bug bounty programs and traditional career paths for safety professionals will be discussed. The reader will also have practical tasks and self-assessment exercises to plan further paths of learning and certification. WHAT YOU WILL LEARN ? Learn methodologies, tools, and techniques of penetration testing and ethical hacking. ? Expert-led practical demonstration of tools and tricks like nmap, BurpSuite, and OWASP ZAP. ? Learn how to perform brute forcing, wardriving, and evil twinning. ? Learn to gain and maintain access to remote systems. ? Prepare detailed tests and execution plans for VAPT (vulnerability assessment and penetration testing) scenarios. WHO THIS BOOK IS FOR This book is intended for prospective and seasonal cybersecurity lovers who want to master cybersecurity and ethical hacking. It also assists software engineers, quality analysts, and penetration testing companies who want to keep up with changing cyber risks. TABLE OF CONTENTS 1. Cyber Security, Ethical Hacking, and Penetration Testing 2. CEH v11 Prerequisites and Syllabus 3. Self-Assessment 4. Reconnaissance 5. Social Engineering 6. Scanning Networks 7. Enumeration 8. Vulnerability Assessment 9. System Hacking 10. Session Hijacking 11. Web Server Hacking 12. Web Application Hacking 13. Hacking Wireless Networks 14. Hacking Mobile Platforms 15. Hacking Clout, IoT, and OT Platforms 16. Cryptography 17. Evading Security Measures 18. Practical Exercises on Penetration Testing and Malware Attacks 19. Roadmap for a Security Professional 20. Digital Compliances and Cyber Laws 21. Self-Assessment-1 22. Self-Assessment-2

JUMPSTART YOUR NEW AND EXCITING CAREER AS A PENETRATION TESTER The Pentester BluePrint: Your Guide to Being a Pentester offers readers a chance to delve deeply into the world of the ethical, or "white-hat" hacker. Accomplished pentester and author Phillip L. Wylie and cybersecurity researcher Kim Crawley walk you through the basic and advanced topics necessary to understand how to make a career out of finding vulnerabilities in systems, networks, and applications. You'll learn about the role of a penetration tester, what a pentest involves, and the prerequisite knowledge you'll need to start the educational journey of becoming a pentester. Discover how to develop a plan by assessing your current skillset and finding a starting place to begin growing your knowledge and skills. Finally, find out how to become employed as a pentester by using social media, networking strategies, and community involvement. Perfect for IT workers and entry-level information security professionals, The Pentester BluePrint also belongs on the bookshelves of anyone seeking to transition to the exciting and in-demand field of penetration testing. Written in a highly approachable and accessible style, The Pentester BluePrint avoids unnecessarily technical lingo in favor of concrete advice and practical strategies to help you get your start in pentesting. This book will teach you: The foundations of pentesting, including basic IT skills like operating systems, networking, and security systems The development of hacking skills and a hacker mindset Where to find educational options, including college and university classes, security training providers, volunteer work, and self-study Which certifications and degrees are most useful for gaining employment as a pentester How to get experience in the pentesting field, including labs, CTFs, and bug bounties

Hands-On Ethical Hacking and Network Defense, Second Edition provides an in-depth understanding of how to effectively protect computer networks. This book describes the tools and penetration testing methodologies used by ethical hackers and provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Readers are provided with updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also included is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking. With cyber-terrorism and corporate espionage threatening the fiber of our world, the need for trained network security professionals continues to grow. Hands-On Ethical Hacking and Network Defense, Second Edition provides a structured knowledge base to prepare readers to be security professionals who understand how to protect a network by using the skills and tools of an ethical hacker. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Herein, you will find a comprehensive, beginner-friendly book designed to teach you the basics of hacking. Learn the mindset, the tools, the techniques, and the ETHOS of hackers. The book is written so that anyone can understand the material and grasp the fundamental techniques of hacking. Its content is tailored specifically for the beginner, pointing you in the right direction, to show you the path to becoming an elite and powerful hacker. You will gain access and instructions to tools used by industry professionals in the field of penetration testing and ethical hacking and by some of the best hackers in the world. ----- If you are curious about the FREE version of this book, you can read the original, first-draft of this book for free on Google Drive! https://drive.google.com/open?id=0B78IWIY3bU_8RnZmOXczTUFEM1U

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.

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.

This Book Bundle Includes 7 Books: Book 1 - 25 Most Common Security Threats & How To Avoid Them Book 2 - 21 Steps For Implementing The Nist Cybersecurity Framework Book 3 - Cryptography Fundamentals & Network Security Book 4 - How to Get Into Cybersecurity Without Technical Background Book 5 - Wireless Technology Fundamentals Book 6 - Learn Fast How To Hack Any Wireless Networks Book 7 - Learn Fast How To Hack Like A Pro Both Wired and Wireless Pen Testing has become a key skill amongst professional hackers using Kali Linux. If you want to become a Cybersecurity Professional, Ethical Hacker, or a Penetration Tester, BUY THIS BOOK NOW AND GET STARTED TODAY! Book 1 will cover: -Software Bugs and Buffer Overflow, Weak Passwords, Path Traversal, SQL Injection-Cross Site Scripting, Cross-site forgery request, Viruses & Malware-ARP Poisoning, Rogue Access Points, Man in the Middle on Wireless Networks-De-Authentication Attack, Wireless Collision Attack, Wireless Replay Attacks and more... Book 2 will cover: -Basic Cybersecurity concepts, How to write a security policy, IT staff and end-user education-Patch Management Deployment, HTTP, HTTPS, SSL & TLS, Scanning with NMAP-Access Control Deployments, Data in Transit Security, IDS & IPS Systems & Proxy Servers-Data Loss Prevention & RAID, Incremental VS Differential Backup, and more... Book 3 will cover: -Cryptography Basics, Hashing & MD5 Checksum, Hash Algorithms and Encryption Basics-Cipher Text, Encryption Keys, and Digital Signatures, Stateless Firewalls and Stateful Firewalls-AAA, ACS, ISE and 802.1X Authentication, Syslog, Reporting, Netflow & SNMP-BYOD Security, Email Security and Blacklisting, Data Loss Prevention and more... Book 4 will cover: -You will learn the pros and cons of Cybersecurity Jobs, so you can have a better understanding of this industry. -You will learn what salary you can expect in the field of Cybersecurity. -You will learn how you can get working experience and references while you can also get paid. -You will learn how to create a Professional LinkedIn Profile step by step that will help you get noticed, and begin socializing with other Cybersecurity Professionals and more... Book 5 will cover: -Electromagnetic Spectrum, RF Basics, Antenna Types-Influencing RF Signals, Path Loss aka Attenuation, Signal to Interference Ratio-Beacons, Active & Passive Scanning, Frame Types-802.11 a/b/g/n/ac /ax/ WiFi 6 / 5G networks and more. Book 6 will cover: -PenTest Tools / Wireless Adapters & Wireless Cards for Penetration Testing-How to implement MITM Attack with Ettercap, How to deploy Rogue Access Point using MITM Attack-How to deploy Evil Twin Deauthentication Attack with mdk3, How to deploy DoS Attack with MKD3-4-Way Handshake & Fast Roaming Process, Data Protection and Data Tampering and more... Book 7 will cover: -Pen Testing @ Stage 1, Stage 2 and Stage 3, What Penetration Testing Standards exist-Burp Suite Proxy setup and Spidering hosts, How to deploy SQL Injection-How to implement Dictionary Attack with Airodump-ng, How to deploy ARP Poisoning with EtterCAP-How to implement MITM Attack with Ettercap & SSLstrip, How to Manipulate Packets with Scapy-How to deploy Deauthentication Attack, How to capture IPv6 Packets with Parasite6 and more. BUY THIS BOOK NOW AND GET STARTED TODAY!

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 don't 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.

It's no secret that computers are insecure. Stories like the recent Facebook hack and the hacking of government agencies are just the tip of the iceberg because hacking is taking over the world. With more and more people are moving online and doing almost any task that they can there, it is likely that hacking is just going to increase over time. Our personal, financial, and business information is all found online, and this is a big goldmine for hackers all throughout the world. Would you like to be able to protect your system and learn more about the different methods hackers can use to get onto your computer through your network and wireless network? This guidebook is going to provide us with all of the information that we need to know about Hacking with Kali Linux, the most complete tool to protect the network, to make sure that hackers are not able to get onto your computer and cause trouble or steal your personal information. 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. We will also learn how to complete a penetration test to find out where the vulnerabilities of our system lie, and how to handle our wireless network to make sure that we are going to keep our information safe. Some of the topics that we are going to take a look at here include:

- The different types of hackers that we may encounter.
- 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.
- The consequences of a cyber-attack and why we need to prevent it.
- How to install Kali Linux onto your operating system to get started.
- Some of the commands that you can send over to your terminal.
- Some of the basics of the Kali Linux network and the stages that we need to follow to make penetration testing happen.
- The basic steps you need to take in order to scan your own network and keep hackers out.
- How a man in the middle, DoS, Trojans, viruses, and phishing can all be tools of the hacker.
- The dark web and the Tor program, and how these can help a hacker stay anonymous.
- The importance of the VPN, or virtual private networks, and firewalls, and how those can keep the hacker hidden from view.
- Some of the simple hacking techniques that a hacker could use against a network or a system.
- How to set up our methodology with wireless hacking and organizing all of the tools that we need.
- Getting ourselves pass all of the different types of encryption online.
- How to exploit a wireless network.
- How to handle a wireless denial of service attack.
- And so much more.

When you are ready to learn more about....

- 1) Hacking with Kali Linux and how this can benefit your own network and computer
- 2) Penetration Testing with Kali Linux
- 3) Wireless hacking and how to keep your own network safe

...make sure to check out this guidebook to help you

Originally, the term "hacker" referred to a programmer who was skilled in computer operating systems and machine code. Today, it refers to anyone who performs hacking activities. Hacking is the act of changing a system's features to attain a goal that is not within the original purpose of the creator. The word "hacking" is usually perceived negatively especially by people who do not understand the job of an ethical hacker. In the hacking world, ethical hackers are good guys. What is their role? They use their vast knowledge of computers for good instead of malicious reasons. They look for vulnerabilities in the computer security of organizations and businesses to prevent bad actors from taking advantage of them. For someone that loves the world of technology and computers, it would be wise to consider an ethical hacking career. You get paid (a good amount) to break into systems. Getting started will not be a walk in the park—just as with any other career. However, if you are determined, you can skyrocket yourself into a lucrative career. When you decide to get started on this journey, you will have to cultivate patience. The first step for many people is usually to get a degree in computer science. You can also get an A+ certification (CompTIA)—you must take and clear two different exams. To be able to take the qualification test, you need to have not less than 500 hours of experience in practical computing. Experience is required, and a CCNA or Network+ qualification to advance your career. 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 penetration 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 (FREE Bonus Included) Learn the Basics of Ethical Hacking and Penetration Testing If you've ever read about computer hacking, you might be surprised to learn that companies actually pay people to try to hack into their systems. It's called "ethical hacking". Should you decide to learn to conduct ethical hacking, you will be responsible for helping organizations to protect their assets and information systems from malicious hackers, who would like to take advantage of any information they can get their hands on. It's quite an interesting field of work, learning to legally hack into the systems of organizations like utility companies, banks and even government agencies. You will use the same skills as malicious hackers, but you will be using them for a much nobler purpose. Instead of trying to rip companies off, or steal secrets, you will be reporting the problems in their systems, so that they can repair them. Ethical hacking pays well, and it can easily be a full time job. Courses are available in various locations. You can research courses online and register for classes that will qualify you to be a certified ethical hacker. Here is what you will learn after reading this book: White hat hacking versus black hat and gray hat hacking How to hack into computer systems Reporting vulnerabilities to business management Becoming CEH certified as an ethical hacker Performing penetration testing Helping IT management to protect their sensitive information Getting Your FREE Bonus Read this book, and find "BONUS: Your FREE Gift" chapter right after the introduction or after the conclusion.

Get to grips with security assessment, vulnerability exploitation, workload security, and encryption with this guide to ethical hacking and learn to secure your AWS environment Key Features Perform cybersecurity events such as red or blue team activities and functional testing Gain an overview and understanding of AWS penetration testing and security Make the most of your AWS cloud infrastructure by learning about AWS fundamentals and exploring pentesting best practices Book Description Cloud security has always been treated as the highest priority by AWS while designing a robust cloud infrastructure. AWS has now extended its support to allow users and security experts to perform penetration tests on its environment. This has not only revealed a number of loopholes and brought vulnerable points in their existing system to the fore, but has also opened up opportunities for organizations to build a secure cloud environment. This book teaches you how to perform penetration tests in a controlled AWS environment. You'll begin by performing security assessments of major AWS resources such as Amazon EC2 instances, Amazon S3, Amazon API Gateway, and AWS Lambda. Throughout the course of this book, you'll also learn about specific tests such as exploiting applications, testing permissions flaws, and discovering weak policies. Moving on, you'll discover how to establish private-cloud access through backdoor Lambda functions. As you advance, you'll explore the no-go areas where users can't make changes due to vendor restrictions and find out how you can avoid being flagged to AWS in these cases. Finally, this book will take you through tips and tricks for securing your cloud environment in a professional way. By the end of this penetration testing book, you'll have become well-versed in a variety of ethical hacking techniques for securing your AWS environment against modern cyber threats. What you will learn Set up your AWS account and get well-versed in various pentesting services Delve into a variety of cloud pentesting tools and methodologies Discover how to exploit vulnerabilities in both AWS and applications Understand the legality of pentesting and learn how to stay in scope Explore cloud pentesting best practices, tips, and tricks Become competent at using tools such as Kali Linux, Metasploit, and Nmap Get to grips with post-exploitation procedures and find out how to write pentesting reports Who this book is for If you are a network engineer, system administrator, or system operator looking to secure your AWS environment against external cyberattacks, then this book is for you. Ethical hackers, penetration testers, and security consultants who want to enhance their cloud security skills will also find this book useful. No prior experience in penetration testing is required; however, some understanding of cloud computing or AWS cloud is recommended.

A hands-on guide to hacking computer systems from the ground up, from capturing traffic to crafting sneaky, successful trojans. A crash course in modern hacking techniques, Ethical Hacking is already being used to prepare the next generation of offensive security experts. In its many hands-on labs, you'll explore crucial skills for any aspiring penetration tester, security researcher, or malware analyst. You'll begin with the basics: capturing a victim's network traffic with an ARP spoofing attack and then viewing it in Wireshark. From there, you'll deploy reverse shells that let you remotely run commands on a victim's computer, encrypt files by writing your own ransomware in Python, and fake emails like the ones used in phishing attacks. In advanced chapters, you'll learn how to fuzz for new vulnerabilities, craft trojans and rootkits, exploit websites with SQL injection, and escalate your privileges to extract credentials, which you'll use to traverse a private network. You'll work with a wide range of professional penetration testing tools—and learn to write your own tools in Python—as you practice tasks like: • Deploying the Metasploit framework's reverse shells and embedding them in innocent-seeming files • Capturing passwords in a corporate Windows network using Mimikatz • Scanning (almost) every device on the internet to find potential victims • Installing Linux rootkits that modify a victim's operating system • Performing advanced Cross-Site Scripting (XSS) attacks that execute sophisticated JavaScript payloads Along the way, you'll gain a foundation in the relevant computing technologies. Discover how advanced fuzzers work behind the scenes, learn how internet traffic gets encrypted, explore the inner mechanisms of nation-state malware like Drovorub, and much more. Developed with feedback from cybersecurity students, Ethical Hacking addresses contemporary issues in the field not often covered in other books and will prepare you for a career in penetration testing. Most importantly, you'll be able to think like an ethical hacker?: someone who can carefully analyze systems and creatively gain access to them.

This book is a blend of penetration testing and best practices industrial automation in cybersecurity space with Python. This book will enable pentesters to take their skills to the next level by leveraging the power of Python and explaining the core concepts that will come in handy when making robust cybersecurity tools and custom exploits.

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 organization. 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 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. You will learn how to properly utilize and interpret the results of modern day hacking tools, which are required to complete a penetration test. Tool coverage includes Backtrack and Kali Linux, Google reconnaissance, MetaGooFil, DNS interrogation, Nmap, Nessus, Metasploit, the Social Engineer Toolkit (SET), w3af, Netcat, post exploitation tactics, the Hacker Defender rootkit, and more. The book provides a simple and clean explanation of how to effectively utilize the tools and introduces a four-step methodology for conducting a penetration test or hack. You will be provided with the know-how required to jump start your career or gain a better understanding of offensive security. The book walks through each of the steps and tools in a structured, orderly manner, allowing readers to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process allows readers to clearly see how the tools and phases function and relate.-The second edition includes updated information covering Kali Linux as well as focusing on the seminal tools required to complete a penetration test New tools added including the Social Engineer Toolkit, Meterpreter, w3af and more!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

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!

The Basics of Hacking and Penetration Testing serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end. This book makes ethical hacking and penetration testing easy - no prior hacking experience is required. It shows how to properly utilize and interpret the results of the modern-day hacking tools required to complete a penetration test. With a simple and clean explanation of how to effectively utilize these tools - as well as the introduction to a four-step methodology for conducting a penetration test or hack - the book provides students with the know-how required to jump start their careers and gain a better understanding of offensive security. The book is organized into 7 chapters that cover hacking tools such as Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. 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. PowerPoint slides are available for use in class. This book is an ideal reference for security consultants, beginning InfoSec professionals, and students. Named a 2011 Best Hacking and Pen Testing Book by InfoSec Reviews 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 Backtrack Linux distribution and focuses on the seminal tools required to complete a penetration test.

A fast, hands-on introduction to offensive hacking techniques Hands-On Hacking teaches readers to see through the eyes of their adversary and apply hacking techniques to better understand real-world risks to computer networks and data. Readers will benefit from the author's years of experience in the field hacking into computer networks and ultimately training others in the art of

cyber-attacks. This book holds no punches and explains the tools, tactics and procedures used by ethical hackers and criminal crackers alike. We will take you on a journey through a hacker's perspective when focused on the computer infrastructure of a target company, exploring how to access the servers and data. Once the information gathering stage is complete, you'll look for flaws and their known exploits—including tools developed by real-world government financed state-actors.

- An introduction to the same hacking techniques that malicious hackers will use against an organization
- Written by infosec experts with proven history of publishing vulnerabilities and highlighting security flaws
- Based on the tried and tested material used to train hackers all over the world in the art of breaching networks
- Covers the fundamental basics of how computer networks are inherently vulnerable to attack, teaching the student how to apply hacking skills to uncover vulnerabilities

We cover topics of breaching a company from the external network perimeter, hacking internal enterprise systems and web application vulnerabilities. Delving into the basics of exploitation with real-world practical examples, you won't find any hypothetical academic only attacks here. From start to finish this book will take the student through the steps necessary to breach an organization to improve its security. Written by world-renowned cybersecurity experts and educators, Hands-On Hacking teaches entry-level professionals seeking to learn ethical hacking techniques. If you are looking to understand penetration testing and ethical hacking, this book takes you from basic methods to advanced techniques in a structured learning format.

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?

You will learn how to properly utilize and interpret the results of modern day hacking tools, which are required to complete a penetration test. Tool coverage includes Backtrack and Kali Linux, Google reconnaissance, MetaGooFil, DNS interrogation, Nmap, Nessus, Metasploit, the Social Engineer Toolkit (SET), w3af, Netcat, post exploitation tactics, the Hacker Defender rootkit, and more. The book provides a simple and clean explanation of how to effectively utilize the tools and introduces a four-step methodology for conducting a penetration test or hack. You will be provided with the know-how required to jump start your career or gain a better understanding of offensive security. The book walks through each of the steps and tools in a structured, orderly manner, allowing readers to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process allows readers to clearly see how the tools and phases function and relate.

The second edition includes updated information covering Kali Linux as well as focusing on the seminal tools required to complete a penetration test. New tools added including the Social Engineer Toolkit, Meterpreter, w3af and more! 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.

Giving an available prologue to infiltration testing and hacking, the book supplies you with a key comprehension of hostile security. In the wake of finishing the book you will be set up to go up against top to bottom and propelled subjects in hacking and entrance testing. The book strolls you through each of the means and apparatuses in an organized, systematic way enabling you to see how the yield from each instrument can be completely used in the ensuing periods of the infiltration test. This procedure will enable you to obviously perceive how the different instruments and stages identify with each other.

The Basics of Hacking and Penetration Testing

Ethical Hacking and Penetration Testing Made Easy

Elsevier

This book gives you the skills you need to use Python for penetration testing, with the help of detailed code examples. This book has been updated for Python 3.6.3 and Kali Linux 2018.1. Key Features

- Detect and avoid various attack types that put the privacy of a system at risk
- Leverage Python to build efficient code and eventually build a robust environment
- Learn about securing wireless applications and information gathering on a web server

Book Description This book gives you the skills you need to use Python for penetration testing (pentesting), with the help of detailed code examples. We start by exploring the basics of networking with Python and then proceed to network hacking. Then, you will delve into exploring Python libraries to perform various types of pentesting and ethical hacking techniques. Next, we delve into hacking the application layer, where we start by gathering information from a website. We then move on to concepts related to website hacking—such as parameter tampering, DDoS, XSS, and SQL injection. By reading this book, you will learn different techniques and methodologies that will familiarize you with Python pentesting techniques, how to protect yourself, and how to create automated programs to find the admin console, SQL injection, and XSS attacks. What you will learn

- The basics of network pentesting including network scanning and sniffing
- Wireless, wired attacks, and building traps for attack and torrent detection
- Web server footprinting and web application attacks, including the XSS and SQL injection attack
- Wireless frames and how to obtain information such as SSID, BSSID, and the channel number from a wireless frame using a Python script
- The importance of web server signatures, email gathering, and why knowing the server signature is the first step in hacking

Who this book is for If you are a Python programmer, a security researcher, or an ethical hacker and are interested in penetration testing with the help of Python, then this book is for you. Even if you are new to the field of ethical hacking, this book can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion.

Cybersecurity is undoubtedly one of the fastest-growing fields. However, there is an acute shortage of skilled workforce. The cybersecurity beginners guide aims at teaching security

enthusiasts all about organizational digital assets' security, give them an overview of how the field operates, applications of cybersecurity across sectors and industries, and skills and certifications one needs to build and scale up a career in this field.

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.

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

Explore the world of practical ethical hacking by developing custom network scanning and remote access tools that will help you test the system security of your organization Key Features Get hands-on with ethical hacking and learn to think like a real-life hacker Build practical ethical hacking tools from scratch with the help of real-world examples Leverage Python 3 to develop malware and modify its complexities Book Description Penetration testing enables you to evaluate the security or strength of a computer system, network, or web application that an attacker can exploit. With this book, you'll understand why Python is one of the fastest-growing programming languages for penetration testing. You'll find out how to harness the power of Python and pentesting to enhance your system security. Developers working with Python will be able to put their knowledge and experience to work with this practical guide. Complete with step-by-step explanations of essential concepts and practical examples, this book takes a hands-on approach to help you build your own pentesting tools for testing the security level of systems and networks. You'll learn how to develop your own ethical hacking tools using Python and explore hacking techniques to exploit vulnerabilities in networks and systems. Finally, you'll be able to get remote access to target systems and networks using the tools you develop and modify as per your own requirements. By the end of this ethical hacking book, you'll have developed the skills needed for building cybersecurity tools and learned how to secure your systems by thinking like a hacker. What you will learn Understand the core concepts of ethical hacking Develop custom hacking tools from scratch to be used for ethical hacking purposes Discover ways to test the cybersecurity of an organization by bypassing protection schemes Develop attack vectors used in real cybersecurity tests Test the system security of an organization or subject by identifying and exploiting its weaknesses Gain and maintain remote access to target systems Find ways to stay undetected on target systems and local networks Who this book is for If you want to learn ethical hacking by developing your own tools instead of just using the prebuilt tools, this book is for you. A solid understanding of fundamental Python concepts is expected. Some complex Python concepts are explained in the book, but the goal is to teach ethical hacking, not Python.

Your one-stop guide to using Python, creating your own hacking tools, and making the most out of resources available for this programming language Key Features Comprehensive information on building a web application penetration testing framework using Python Master web application penetration testing using the multi-paradigm programming language Python Detect vulnerabilities in a system or application by writing your own Python scripts Book Description Python is an easy-to-learn and cross-platform programming language that has unlimited third-party libraries. Plenty of open source hacking tools are written in Python, which can be easily integrated within your script. This book is packed with step-by-step instructions and working examples to make you a skilled penetration tester. It is divided into clear bite-sized chunks, so you can learn at your own pace and focus on the areas of most interest to you. This book will teach you how to code a reverse shell and build an anonymous shell. You will also learn how to hack passwords and perform a privilege escalation on Windows with practical examples. You will set up your own virtual hacking environment in VirtualBox, which will help you run multiple operating systems for your testing environment. By the end of this book, you will have learned how to code your own scripts and mastered ethical hacking from scratch. What you will learn Code your own reverse shell (TCP and HTTP) Create your own anonymous shell by interacting with Twitter, Google Forms, and SourceForge Replicate Metasploit features and build an advanced shell Hack passwords using multiple techniques (API hooking, keyloggers, and clipboard hijacking) Exfiltrate data from your target Add encryption (AES, RSA, and XOR) to your shell to learn how cryptography is being abused by malware Discover privilege escalation on Windows with practical examples Countermeasures against most attacks Who this book is for This book is for ethical hackers; penetration testers; students preparing for OSCP, OSCE, GPEN, GXPN, and CEH; information security professionals; cybersecurity consultants; system and network security administrators; and programmers who are keen on learning all about penetration testing. Have you always been curious about hacking? Have you also had a misconception about the term Ethical Hacking? Would you like to learn more about ethical hacking using a powerful operating system called Kali Linux? Do you aspire to start an ethical hacking career someday? Then this is the right book to help you get started. This book will prove to be a valuable source

of knowledge, especially when you want to learn a lot about ethical hacking in a short amount of time. This treasure trove of knowledge will teach you about the power of Kali Linux and how its tools can help you during every stage of the penetration testing lifecycle. If you want to launch yourself into the world of ethical hacking and want to use Kali Linux as the most used tool in your toolkit, this book will definitely serve as your launchpad. The book is designed to consider first time Kali Linux users and will take you through a step by step guide on how to download and install Kali Linux. The book is also designed to help existing Kali Linux users learn advanced techniques concerning the use of Kali Linux in the penetration testing lifecycle and the ethical hacking domain. The tools surrounding the Kali Linux operating system in this course will help you get a first impression of the ethical hacking profile and will also serve as a platform to launch you into the world of information security. The book will take you through: An overview of hacking Terminologies of hacking Steps to download and install Kali Linux The penetration testing lifecycle Dedicated chapters on the five stages of the penetration testing lifecycle viz. Reconnaissance, Scanning, Exploitation, Maintaining Access, and Reporting And a bonus chapter on Email Hacking The book has been designed for you to understand hacking and Kali Linux from its foundation. You will not need to complete the entire book to start with a practical performance on Kali Linux. Every chapter of the penetration testing life cycle is a module in itself, and you will be in a position to try out the tools listed in them as you finish each chapter. There are step-by-step instructions and code snippets throughout the book that will help you get your hands dirty on a real Kali Linux system with the completion of each chapter. So here's hoping that this book helps you find the appetite to become an ethical hacker someday soon! Click the Buy Now button to get started now.

Simulate real-world attacks using tactics, techniques, and procedures that adversaries use during cloud breaches Key Features Understand the different Azure attack techniques and methodologies used by hackers Find out how you can ensure end-to-end cybersecurity in the Azure ecosystem Discover various tools and techniques to perform successful penetration tests on your Azure infrastructure Book Description Security professionals working with Azure will be able to put their knowledge to work with this practical guide to penetration testing. The book provides a hands-on approach to exploring Azure penetration testing methodologies that will help you get up and running in no time with the help of a variety of real-world examples, scripts, and ready-to-use source code. As you learn about the Microsoft Azure platform and understand how hackers can attack resources hosted in the Azure cloud, you'll find out how to protect your environment by identifying vulnerabilities, along with extending your pentesting tools and capabilities. This book starts by taking you through the prerequisites for pentesting Azure and shows you how to set up a pentesting lab. You'll then simulate attacks on Azure assets such as web applications and virtual machines from anonymous and authenticated perspectives. Finally, you'll learn about the opportunities for privilege escalation in Azure tenants and ways in which an attacker can create persistent access to an environment. By the end of this book, you'll be able to leverage your ethical hacking skills to identify and implement different tools and techniques to perform successful penetration tests on your own Azure infrastructure. What you will learn Identify how administrators misconfigure Azure services, leaving them open to exploitation Understand how to detect cloud infrastructure, service, and application misconfigurations Explore processes and techniques for exploiting common Azure security issues Use on-premises networks to pivot and escalate access within Azure Diagnose gaps and weaknesses in Azure security implementations Understand how attackers can escalate privileges in Azure AD Who this book is for This book is for new and experienced infosec enthusiasts who want to learn how to simulate real-world Azure attacks using tactics, techniques, and procedures (TTPs) that adversaries use in cloud breaches. Any technology professional working with the Azure platform (including Azure administrators, developers, and DevOps engineers) interested in learning how attackers exploit vulnerabilities in Azure hosted infrastructure, applications, and services will find this book useful.

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!

Know the basic principles of ethical hacking. This book is designed to provide you with the knowledge, tactics, and tools needed to prepare for the Certified Ethical Hacker(CEH) exam—a qualification that tests the cybersecurity professional's baseline knowledge of security threats, risks, and countermeasures through lectures and hands-on labs. You will review the organized certified hacking mechanism along with: stealthy network re-con; passive traffic detection; privilege escalation, vulnerability recognition, remote access, spoofing; impersonation, brute force threats, and cross-site scripting. The book covers policies for penetration testing and requirements for documentation. This book uses a unique “lesson” format with objectives and instruction to succinctly review each major topic, including: footprinting and reconnaissance and scanning networks, system hacking, sniffers and social engineering, session hijacking, Trojans and backdoor viruses and worms, hacking web servers, SQL injection, buffer overflow, evading IDS, firewalls, and honeypots, and much more. What You Will learn Understand the concepts associated with Footprinting Perform active and passive reconnaissance Identify enumeration countermeasures Be familiar with virus types, virus detection methods, and virus countermeasures Know the proper order of steps used to conduct a session hijacking attack Identify defensive strategies against SQL injection attacks Analyze internal and external network traffic using an intrusion detection system Who This Book Is For Security professionals looking to get this credential, including systems administrators, network administrators, security administrators, junior IT auditors/penetration testers, security specialists, security consultants, security engineers, and more

There are many books that detail tools and techniques of penetration testing, but none of these effectively communicate how the information gathered from tests should be analyzed and implemented. Until recently, there was very little strategic information available to explain the value of ethical hacking and how tests should be performed in order t

Requiring no prior hacking experience, Advance 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 don't 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

If you want to learn advanced ethical hacking and penetration testing concepts, then keep reading... Does the concept of ethical hacking fascinate you? Do you know what penetration testing means? Do you want to learn about ethical hacking and penetration testing? Do you want to learn all this, but aren't sure where to begin? If YES, then this is the perfect book for you! Welcome to the advanced guide on ethical hacking and penetration testing with Kali Linux guide. Ethical Hacking is essentially the art of protecting a system and its resources and what you will be going through in this book is the techniques, tactics and strategies which will help you understand and execute ethical hacking in a controlled environment as well as the real world. You will also be learning about Kali Linux which is the choice of an operating system that is preferred by ethical hackers all over the world. You will also get exposure to tools that are a part of Kali Linux and how you can combine this operating system and its tools with the Raspberry Pi to turn into a complete toolkit for ethical hacking. You will be getting your hands dirty with all these tools and will be using the tools practically to understand how ethical hackers and security admins work together in an organization to make their systems attack proof. As an ethical hacker, hacking tools are your priority and we will be covering tools such as NMap and Proxycchains which are readily available in the Kali Linux setup. These two tools together will help us setup a system wherein we will target another system and not allow the target system to understand the source IP from where the attack is originating. We will write some basic scripts and automate those scripts to attack on a network at regular intervals to fetch us data describing the vulnerabilities of that network such as open ports, DNS server details. We will also be working with techniques and strategies for Web Application Firewall testing. This will include topics such as Cross Site Scripting and SQL injections. Then comes Social Engineering. This focuses more on the technical aspect of gathering information which will help us to prepare for an attack and not social engineering concerned with making fraudulent phone calls or pretending to be a person to get the password from an individual. We will also talk about Virtual Private Networks (VPN) and how it is important in the domain of ethical hacking. We will discuss how virtual private networks are used by employees of an organization to protect their connection to their corporate network from attackers who might try to steal their data by using man in the middle attacks. We will also understand cryptography in brief and how it plays a role in hacking operations. How various cryptography puzzles can train an ethical hacker to improve their thought process and help them in the technical aspects of hacking. In this book, you will learn about: Various hacking tools, Writing and automating scripts, Techniques used for firewall testing, Basics of social engineering, Virtual private networks, Cryptography and its role in hacking, and much more! So, what are you waiting for? Grab your copy today **CLICKING BUY NOW BUTTON!**

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

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

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