

Ethical Hacking And Penetration Testing By Rafay Baloch

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.

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.

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.

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.

The Basics of Hacking and Penetration Testing

Ethical Hacker's Certification Guide (CEHv11)

Penetration Testing

Python Ethical Hacking from Scratch

Linux Basics for Hackers

Ethical Hacking and Penetration Testing Guide

Professional Penetration Testing

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.

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

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.

CISO's Guide to Penetration Testing: A Framework to Plan, Manage, and Maximize Benefits details the methodologies, framework, and unwritten conventions penetration tests should cover to provide the most value to

your organization and your customers. Discussing the process from both a consultative and technical perspective, it provides an overview o

Essential Guide To Ethical Hacking and Penetration Testing Made Easy

Kali Linux Hacking

Learning Kali Linux

Getting Started with Networking, Scripting, and Security in Kali

Ethical Hacking & Penetration Testing

Hands-On Penetration Testing on Windows

The Ultimate Guide to Using Penetration Testing to Audit and Improve the Cybersecurity of Computer Networks for Beginners, Including Tips on Social Engineering

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 twining, 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

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

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.

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.

Penetration Testing for Jobseekers

Learn Ethical Hacking from Scratch

The Beginner's Guide to Ethical Hacking and Penetration Testing

Security Testing, Penetration Testing, and Ethical Hacking

Hacking the World's Most Secure Networks

Advanced Guide on Ethical Hacking and Penetration Testing with Kali. Practical Approach with Tools to Understand in

Detail Cybersecurity and Computer Hacking with Examples

Learn the Basics of Ethical Hacking and Penetration Testing

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

The Hacker Ethos is a condensed, easy-to-read guidebook on the subject of Ethical Hacking and Penetration Testing, the legal procedure for testing computer security by simulating real cyber attacks. Written by an expert in Computer Science and Information Security with ten years of experience in his field at the time of writing, The Hacker Ethos was specifically designed to be put in the hands of the beginner-level hacker, IT professional, and hopeful IT security researcher. This book covers the fundamental concepts of computer science and introduces the core knowledge that is required by all security professionals in the IT industry. The primary goal of the book is to instill what is known as the "Hacker Ethic" into the reader, a philosophy based on the ideal of free information, knowledge, and speech. Its very foundation is the principle of what it means to be a true hacker, an expert in computers at the most primal level, ready to explore new concepts and techniques without ever losing the hunger for knowledge. The reader is encouraged to understand that Hacking is not easy, not is it a singular concept. It encompasses a vast library, covering every field of technology that includes programming, exploitation, web security and design, application security, viruses and malware, networking, wireless technology, telecommunication, phone technology, cellular technology, robotics, and everything that can be classified under the school of computing. Hackers are jacks of all trades, masters of none, but always striving to become so. Contained in this book are the topics of hacker ethics, and details the unwritten law of the Hacker Underground. It casts a bright spotlight on the Hacker Mythos, the subculture of hacking, and dispels the mystique of the Deep Web. It teaches the core techniques of hacking, and what is known as the Hacker Methodology, the list of techniques used by professional security testers and cyber-criminals alike to attack their targets. It teaches critical research techniques, heavily

emphasizing self-study, and provides dozens of free resources on the various subjects and schools of hacking, including: programming, web hacking, service and application exploitation, malware development, password cracking, Denial-of-Service, Wireless and physical network penetration, cryptography. Lastly, the book provides a massive toolkit of professional and privately used hacking tools, all completely free, and teaches the reader how to acquire new tools for themselves. This book has been hailed by readers as "the best and easiest beginner's guide to hacking of the millennium," meticulously having collected and organized every necessary tool, technique, and tutorial that beginners of the IT Security field absolutely must know. Its primary lesson is "teach you how to teach yourself," an invaluable skill that drives the field of technology and security more than any other. That a hacker who cannot learn on his own will never last. This book requires strong dedication and an insatiable desire to learn. Make no mistake, its contents will not be simple by any means, as much as it strives to make them easy to understand. There is no "hacking tools that does it all" and there is no magic trick to learning everything. Should you choose to continue, be prepared to adopt the true meaning of The Hacker Ethos, our creed: Information is meant to be free for everyone. Privacy is a right, hard earned; not a commodity, cheaply bought. Censorship is a tyranny delivered by silence. The Internet embodies freedom. Immerse yourself in it. Never stop learning; never stop teaching. Don't learn to hack; hack to learn. "We Are All Alike" Good luck on your Journey, - True Demon

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 Ethical Hacking and Penetration Testing Made Easy Elsevier

The Beginner's Guide To Ethical Hacking And Penetration Testing

Hacking Essentials

Hacking

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

Your stepping stone to penetration testing

Ethical Hacking and Penetration Testing Made Easy

A Complete Step by Step Guide to Learn the Fundamentals of Cyber Security, Hacking, and Penetration Testing. Includes Valuable Basic Networking Concepts.

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.

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 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 Proxychains 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!**

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 dont know where to start, this book will help take your hacking skills to the next level. The topics described in this book comply with international standards and with what is being taught in international certifications

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

A comprehensive guide on Penetration Testing including Network Hacking, Social Engineering, and Vulnerability Assessment (English Edition)

Enhance your ethical hacking skills to build automated and intelligent systems

Hands-On Penetration Testing with Python

Web Penetration Testing with Kali Linux

Hacking and Penetration Testing

A practical guide to ethical hacking and penetration testing using Python

The Ethical Hack

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 to provide a company with insight beyond a mere listing of security vulnerabilities. Now there is a resource that illustrates how an organization can gain as much value from an ethical hack as possible. The Ethical Hack: A Framework for Business Value Penetration Testing explains the methodologies, framework, and "unwritten conventions" that ethical hacks should employ to provide the maximum value to organizations that want to harden their security. This book is unique in that it goes beyond the technical aspects of penetration testing to address the processes and rules of engagement required for successful tests. It examines testing from a strategic perspective, shedding light on how testing ramifications affect an entire organization. Security practitioners can use this resource to reduce their exposure and deliver a focused, valuable service to customers. Organizations will learn how to align the information about tools, techniques, and vulnerabilities that they gathered from testing with their overall business objectives. 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

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Became an Ethical Hacker that can hack computer systems like Black Hat Hackers and secure them like security experts

Topics Covered

- Setting up a Hacking Lab-Lab overview and needed software-Install and configure VirtualBox-Installing Kali Linux as a Virtual Machine-Creating and Using Snapshot
- Network Hacking-Introduction to Network Penetration Testing / Hacking-Connecting a Wireless Adapter to Kali-What is MAC address and How to change it?-Wireless Modes (Managed and Monitor)
- Network Hacking: Pre-Connection Attacks-Packet Sniffing Basics-Wi-Fi Bands - 2.4 Ghz & 5 Ghz Frequencies-Targeted Packet Sniffing -Deauthentication Attack (Disconnecting Any Device From The Network)
- Network Hacking: Gaining Access - WEP Cracking-Theory Behind Cracking WEP Encryption-WEP Cracking Basics-Fake Authentication Attack-ARP Request Reply Attack
- Network Hacking: Gaining Access - WPA/WPA2/ Cracking-Introduction to WPA and WPA2 Cracking-Hacking WPA & WPA2 Without a Wordlist-Capturing The Handshake-Creating a Wordlist-Cracking WPA & WPA2 Using a Wordlist
- Attack
- Network Hacking: Post Connection Attacks-Introduction to Post Connection Attacks-Discovering Devices Connected to the Same Network-Gathering Sensitive Info About Connected Devices-Gathering More Sensitive Info(Running Services, Operating System.... etc.)
- Network Hacking: Post Connection Attacks - MITM attacks-ARP (Address Resolution Protocol) Poisoning-Intercepting Network Traffic-Bettercap Basics-ARP Spoofing Using Bettercap-Spying on Network Devices (Capturing Passwords, Visited websites etc.)-Creating Custom Spoofing Script-Understanding HTTPS & How to Bypass it-Bypassing HTTPS-Bypass HSTS (HTTP Strict Transport Security)-DNS Spoofing - Controlling DNS Requests on the Network-

*Injecting JavaScript Code-Wireshark- Basic Overview & How to Use it with MITM attacks-
Wireshark - Using Filters, Tracing & Dissecting Packets-Wireshark - Capturing Passwords &
Anything Send by Any Device In the network.-Creating a Fake Access Point (Honeypot) -
Theory-Creating a Fake Access Point (Honeypot) - PracticalGaining Access to Computers:
Server-Side Attacks-Installing Metasploitable As a Virtual Machine-Basic Information
Gathering & Exploitation-Hacking a Remote Server Using a Basic Metasploite Exploite-
Exploiting a Code Execution Vulnerability to Hack into a Remote Server-Nexpose -
Installing Nexpose-Nexpose - Scanning a Target Server for Vulnerabilities-Nexpose -
Analyzing Scan Results & Generating ReportsGaining Access: Client-Side Attacks-Installing
Veil Framework-Veil Overview and Payloads Basics-Generating an Undetectable Backdoor-
Listening for Incoming Connections-Using a Basic Delivery Method to Test the Backdoor &
Hack Windows 10-Hacking Windows 10 Using Fake Update-Backdooring Downloads on the Fly to
Hack windows 10Gaining Access: Client-Side Attacks-Backdooring Any File Types (Images,
PDF's ...etc.)-Compiling and Changing Trojan's Icon-Spoofing .exe Extension to any
Extension-Spoofing Emails - Setting Up an SMTP Server-Email Spoofing - Sending Emails as
any Email Account-BeEF Overview & Basic Hook Method-BeEF - Running Basic Commands on
Target-BeEF - Stealing Password Using a Fake Login Prompt-BeEF - Hacking Windows 10 Using
a Fake Update PromptGaining Access: Using the Above Attacks Outside the Local Network-
Overview of the Setup-Example 1 - Generating a Backdoor that Works Outside the Network-
Configuring the Router to Forward Connections to Kali-Example 2 - Using BeEF Outside the
NetworkPost Exploitation-Meterpreter Basics-File System Commands-Maintaining Access -
Basic Method-Maintaining Access - Using a Reliable & Undetectable Method-Spying -
Capturing Key Strikes & Taking Screenshots-Pivoting - Using a Hacked System to Hack into
other SystemsWebsite Hacking*

*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.

*Certified Ethical Hacker (CEH) Preparation Guide
Hands on Hacking*

*Explore the methods and tools of ethical hacking with Kali Linux, 3rd Edition
Starting a Career as an Ethical Hacker
Hacking With Kali Linux*

Lesson-Based Review of Ethical Hacking and Penetration Testing

The word root to the data? No, this is much more than that. Ethical hacking is to scan vulnerabilities and find the threats in a network. An ethical hacker finds the weak points or loopholes in a computer, web applications or network and reports them to the organization. So, let's explore more about Ethical Hacking today.

Build your defense against web attacks with Kali Linux, including command injection flaws, crypto implementation layers, and web application security holes Key Features Know how to set up your lab with Kali Linux Discover the core concepts of web penetration testing Get the tools and techniques you need with Kali Linux Book Description Web Penetration Testing with Kali Linux - Third Edition shows you how to set up a lab, helps you understand the

nature and mechanics of attacking websites, and explains classical attacks in great depth. This edition is heavily updated for the latest Kali Linux changes and the most recent attacks. Kali Linux shines when it comes to client-side attacks and fuzzing in particular. From the start of the book, you'll be given a thorough grounding in the concepts of hacking and penetration testing, and you'll see the tools used in Kali Linux that relate to web application hacking. You'll gain a deep understanding of classical SQL, command-injection flaws, and the many ways to exploit these flaws. Web penetration testing also needs a general overview of client-side attacks, which is rounded out by a long discussion of scripting and input validation flaws. There is also an important chapter on cryptographic implementation flaws, where we discuss the most recent problems with cryptographic layers in the networking stack. The importance of these attacks cannot be overstated, and defending against them is relevant to most internet users and, of course, penetration testers. At the end of the book, you'll use an automated technique called fuzzing to identify flaws in a web application. Finally, you'll gain an understanding of web application vulnerabilities and the ways they can be exploited using the tools in Kali Linux. What you will learn

- Learn how to set up your lab with Kali Linux
- Understand the core concepts of web penetration testing
- Get to know the tools and techniques you need to use with Kali Linux
- Identify the difference between hacking a web application and network hacking
- Expose vulnerabilities present in web servers and their applications using server-side attacks
- Understand the different techniques used to identify the flavor of web applications
- See standard attacks such as exploiting cross-site request forgery and cross-site scripting flaws
- Get an overview of the art of client-side attacks
- Explore automated attacks such as fuzzing web applications

Who this book is for Since this book sets out to cover a large number of tools and security fields, it can work as an introduction to practical security skills for beginners in security. In addition, web programmers and also system administrators would benefit from this rigorous introduction to web penetration testing. Basic system administration skills are necessary, and the ability to read code is a must.

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?

Understand and Conduct Ethical Hacking and Security Assessments **KEY FEATURES** Practical guidance on discovering, assessing, and mitigating web, network, mobile, and wireless vulnerabilities. Experimentation with Kali Linux, Burp Suite, MobSF, Metasploit and Aircrack-suite. In-depth explanation of topics focusing on how to crack ethical hacking interviews. **DESCRIPTION** Penetration Testing for Job Seekers is an attempt to discover the way to a spectacular career in cyber security, specifically penetration testing. This book offers a practical approach by discussing several computer and network fundamentals before delving into various penetration testing approaches, tools, and techniques. Written by a veteran security professional, this book provides a detailed look at the dynamics that form a person's career as a penetration tester. This book is divided into ten chapters and covers numerous facets of penetration testing, including web application, network, Android application, wireless penetration testing, and creating excellent penetration test reports. This book also shows how to set up an in-house hacking lab from scratch to improve your skills. A penetration tester's professional path, possibilities, average day, and day-to-day obstacles are all outlined to help readers better grasp what they may anticipate from a cybersecurity career. Using this book, readers will be able to boost their employability and job market relevance, allowing them to sprint towards a lucrative career as a penetration tester. **WHAT YOU WILL LEARN** Perform penetration testing on web apps, networks, android apps, and wireless networks. Access to the most widely used penetration testing methodologies and standards in the industry. Use an artistic approach to find security holes in source code. Learn how to put together a high-quality penetration test report. Popular technical interview questions on ethical hacker and pen tester job roles. Exploration of different career options, paths, and possibilities in cyber security. **WHO THIS BOOK IS FOR** This book is for aspiring security analysts, pen testers, ethical hackers, anyone who wants to learn how to become a successful pen tester. A fundamental understanding of network principles and workings is helpful but not required. **TABLE OF CONTENTS** 1. Cybersecurity, Career Path, and Prospects 2. Introduction to Penetration Testing 3. Setting Up Your Lab for Penetration Testing 4. Web Application and API Penetration Testing 5. The Art of Secure Source Code Review 6. Penetration Testing Android Mobile Applications 7. Network Penetration Testing 8. Wireless Penetration Testing 9. Report Preparation and Documentation 10. A Day in the Life of a Pen Tester Creating and Learning in a Hacking Lab

Advance Ethical Hacking and Penetration Testing Guide

CISO's Guide to Penetration Testing

Kali Linux Penetration Testing Bible

A Hands-On Introduction to Hacking

Penetration Testing Azure for Ethical Hackers

The Advanced Penetrating Testing

Ever feel like you don't even own the hardware and software you paid dearly for? Ever get the impression that you ask for permission before installing or changing a program on your device? Ever feel like Facebook and Instagram are listening to your conversations to show you relevant ads? You're not alone.

Implement defensive techniques in your ecosystem successfully with Python Key Features Identify and expose vulnerabilities in your infrastructure with Python Learn custom exploit development .Make robust and powerful cybersecurity tools Python Book Description With the current technological and infrastructural shift, penetration testing is no longer a point-oriented activity. Modern-day penetration testing demands lots of automation and innovation; the only language that dominates all its peers is Python. Given the huge number of tools written in Python, and its popularity in the penetration testing space, this language has always been the first choice for penetration testers. Hands-On Penetration Testing Python walks you through advanced Python programming constructs. Once you are familiar with the core concepts, explore the advanced uses of Python in the domain of penetration testing and optimization. You'll then move on to understanding how Python, data science, and the cybersecurity ecosystem communicate with one another. In the coming chapters, you'll study exploit development, reverse engineering, and cybersecurity use cases that can be automated with Python. By the end of this book, you'll have acquired adequate skills to leverage Python as a helpful tool to pentest secure infrastructure, while also creating your own custom exploits. What you will learn Get to grips with Custom vulnerability scanner development Familiarize yourself with web application scanning automation and exploit development Walk through day-to-day cybersecurity scenarios that can be automated with Python Discover enterprise organization-specific use cases and threat-hunting automation Understand reverse engineering, fuzzing, buffer overflow logger development, and exploit development for buffer overflows. Understand web scraping in Python and use it for processing web responses Explore Security Operations Centre (SOC) use cases Get to understand Data Science, Python and cybersecurity all under one hood Who this book is for If you are a security consultant , developer or a cyber security enthusiast with little or no knowledge of Python and want in-depth insight into how the pen-testing ecosystem and automation combine to create offensive tools , exploits , automate cyber security use-cases and much more then this book is for

Hands-On Penetration Testing with Python guides you through the advanced uses of Python for cybersecurity and penetration testing, helping you to better understand security loopholes within your infrastructure .

There are many books that detail tools and techniques of penetration testing, but none of these effectively communicate 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 to

With more than 600 security tools in its arsenal, the Kali Linux distribution can be overwhelming. Experienced and advanced 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

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

Metasploit Use cracking tools to see if passwords meet complexity requirements Test wireless capabilities by injecting and cracking passwords Assess web application vulnerabilities with automated or proxy-based tools Create advanced

techniques by extending Kali tools or developing your own Use Kali Linux to generate reports once testing is complete

The New Penetrating Testing for Beginners

Perform Ethical Hacking across Web Apps, Networks, Mobile Devices using Kali Linux, Burp Suite, MobSF, and Metasploit (English Edition)

A Framework for Business Value Penetration Testing

Step-By-Step Guide To Ethical Hacking and Penetration Testing Made Easy

Think like an ethical hacker, avoid detection, and successfully develop, deploy, detect, and avoid malware

Develop practical skills to perform pentesting and risk assessment of Microsoft Azure environments

Advanced Penetration Testing

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 "If you're looking for this book, you need it." — 5* Amazon Review Curious about how safe Azure really is? Put your knowledge to work with this practical guide to penetration

testing. This book offers a no-faff, hands-on approach to exploring Azure penetration testing methodologies, which will get up and running in no time with the help 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. First, you'll be taken through the prerequisites for pentesting Azure and shown 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. In the later chapters, 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.

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 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.

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

A Framework to Plan, Manage, and Maximize Benefits

The Hacker Ethos

Python for Offensive PenTest

Ethical Hacking

The Pentester BluePrint

A Hands-on Introduction to Breaking In

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.

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 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.

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