
Ethical Hacking And Penetration Testing Guide

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Ethical Hacking And Penetration Testing Guide

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Hacking With Kali Linux John Wiley & Sons

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. This book should be your start into the world of ethical hacking.

Ethical Hacking & Penetration Testing Elsevier

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 FeaturesGet hands-on with ethical hacking and learn to think like a real-life hackerBuild practical ethical hacking tools from scratch with the help of real-world examplesLeverage Python 3 to develop malware and modify its complexitiesBook 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 learnUnderstand the core concepts of ethical hackingDevelop custom hacking tools from scratch to be used for ethical hacking purposesDiscover ways to test the cybersecurity of an organization by bypassing protection schemesDevelop attack vectors used in real cybersecurity testsTest the system security of an organization or subject by identifying and exploiting its weaknessesGain 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.

Advance Ethical Hacking and Penetration Testing Guide Independently Published

If you want to lean 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 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!**

The Ethical Hack John Wiley & Sons

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.

Ethical Hacking and Penetration Testing Guide Newnes

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

Linux Basics for Hackers BPB Publications

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 Testing Azure for Ethical Hackers Createspace Independent Publishing Platform

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

Penetration Testing Packt Publishing Ltd

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

Python for Offensive PenTest CRC Press

Ever feel like you don't even own the hardware and software you paid dearly for? Ever get the impression that you have to 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.

Hacking With Kali Linux Independently Published

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.

The Pentester BluePrint No Starch Press

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

The Ethical Hacking Bible: a Practical Step-By-Step Guide and Exam Preparation for Cyber Security, Ethical Hacking, and Penetration Testing

Createspace Independent Publishing Platform

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.

Ethical Hacking and Penetration Testing Guide BPB Publications

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.

Advanced Penetration Testing No Starch Press

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

Ethical Hacker's Certification Guide (CEHv11) Apress

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

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The New Penetrating Testing for Beginners CRC Press

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.

Ethical Hacking and Penetration Testing Guide John Wiley & Sons

To crack passwords or to steal data? No, it is much more than that. Ethical hacking is to scan vulnerabilities and to find potential threats on a computer or networks. 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 step-by-step.

The Ethical Hack Independently Published

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

CEH Certified Ethical Hacker Study Guide Packt Publishing Ltd

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.

Python Penetration Testing Essentials John Wiley & Sons

This book will address tasks, such as penetrating networks, exploiting systems, breaking into computers, compromising routers, among other cyber security issues. The purpose of this material is strictly for educational reasons as the demand for cyber security personnel increases due to the increasing challenges of the contemporary need for information technology application and use. The contents and practical lab exercises in this text are substantial supplementary materials geared toward Cyber Security, Ethical Hacking, & Penetration Testing professionals for their careers and for the following Exams preparation: CSA+ - CompTIA Cybersecurity Analyst CISSP - Certified Information Systems Security Professional CISM - Certified Information Security Manager GSEC - GIAC Security Essentials Certification CRISC - Certified in Risk and Information Systems Control CEH - Certified Ethical Hacker ECSA - EC-Council Certified Security Analyst GPEN - GIAC Penetration Tester SSCP - Systems Security Certified Practitioner