

# **SEC560 - Network Penetration Testing and Ethical Hacking**



# Sec560 Network Penetration Testing And Ethical Hacking

**RS Peters**



## **Sec560 Network Penetration Testing And Ethical Hacking:**

**Cybersecurity: The Beginner's Guide** Dr. Erdal Ozkaya, 2019-05-27 Understand the nitty gritty of Cybersecurity with ease Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Align your security knowledge with industry leading concepts and tools Acquire required skills and certifications to survive the ever changing market needs Learn from industry experts to analyse implement and maintain a robust environment Book DescriptionIt s not a secret that there is a huge talent gap in the cybersecurity industry Everyone is talking about it including the prestigious Forbes Magazine Tech Republic CSO Online DarkReading and SC Magazine among many others Additionally Fortune CEO s like Satya Nadella McAfee s CEO Chris Young Cisco s CIO Colin Seward along with organizations like ISSA research firms like Gartner too shine light on it from time to time This book put together all the possible information with regards to cybersecurity why you should choose it the need for cyber security and how can you be part of it and fill the cybersecurity talent gap bit by bit Starting with the essential understanding of security and its needs we will move to security domain changes and how artificial intelligence and machine learning are helping to secure systems Later this book will walk you through all the skills and tools that everyone who wants to work as security personal need to be aware of Then this book will teach readers how to think like an attacker and explore some advanced security methodologies Lastly this book will deep dive into how to build practice labs explore real world use cases and get acquainted with various cybersecurity certifications By the end of this book readers will be well versed with the security domain and will be capable of making the right choices in the cybersecurity field What you will learn Get an overview of what cybersecurity is and learn about the various faces of cybersecurity as well as identify domain that suits you best Plan your transition into cybersecurity in an efficient and effective way Learn how to build upon your existing skills and experience in order to prepare for your career in cybersecurity Who this book is for This book is targeted to any IT professional who is looking to venture in to the world cyber attacks and threats Anyone with some understanding or IT infrastructure workflow will benefit from this book Cybersecurity experts interested in enhancing their skill set will also find this book useful

**The Hacker Mindset: Unleashing Creativity and Problem-Solving in the Digital Age** Mel Hunter, 2025-04-03 Prepare to unlock the secrets of the enigmatic hacker mindset a powerful blend of ingenuity and analytical prowess This captivating book unravels the unconventional thought processes and techniques employed by hackers enabling you to harness their innovative spirit and exceptional problem solving abilities Within these pages you ll delve into the intriguing world of information security where hackers operate Through engaging examples and real world scenarios you ll explore the intricacies of hacking and the challenges it presents Yet amidst the perceived threat this book uncovers the transformative potential of the hacker mindset revealing how its principles can empower you to become an innovative thinker and adept problem solver in the digital age This book is meticulously crafted for individuals seeking to enhance their creativity embrace challenges and cultivate a deep understanding of information

security Whether you aspire to excel in cybersecurity software development or any field that demands out of the box thinking this guide provides invaluable insights and actionable strategies Embark on an enlightening journey to master the hacker mindset expanding your horizons sharpening your problem solving skills and unlocking new possibilities for personal and professional growth

**Cybersecurity** Thomas J. Mowbray,2013-10-18 A must have hands on guide for working in the cybersecurity profession Cybersecurity involves preventative methods to protect information from attacks It requires a thorough understanding of potential threats such as viruses and other malicious code as well as system vulnerability and security architecture This essential book addresses cybersecurity strategies that include identity management risk management and incident management and also serves as a detailed guide for anyone looking to enter the security profession Doubling as the text for a cybersecurity course it is also a useful reference for cybersecurity testing IT test development and system network administration Covers everything from basic network administration security skills through advanced command line scripting tool customization and log analysis skills Dives deeper into such intense topics as wireshark tcpdump filtering Google hacks Windows Linux scripting Metasploit command line and tool customizations Delves into network administration for Windows Linux and VMware Examines penetration testing cyber investigations firewall configuration and security tool customization Shares techniques for cybersecurity testing planning and reporting

**Cybersecurity Managing Systems Conducting Testing and Investigating Intrusions** is a comprehensive and authoritative look at the critical topic of cybersecurity from start to finish

Applied Incident Response Steve Anson,2020-01-13 Incident response is critical for the active defense of any network and incident responders need up to date immediately applicable techniques with which to engage the adversary Applied Incident Response details effective ways to respond to advanced attacks against local and remote network resources providing proven response techniques and a framework through which to apply them As a starting point for new incident handlers or as a technical reference for hardened IR veterans this book details the latest techniques for responding to threats against your network including Preparing your environment for effective incident response Leveraging MITRE ATT CK and threat intelligence for active network defense Local and remote triage of systems using PowerShell WMIC and open source tools Acquiring RAM and disk images locally and remotely Analyzing RAM with Volatility and Rekall Deep dive forensic analysis of system drives using open source or commercial tools Leveraging Security Onion and Elastic Stack for network security monitoring Techniques for log analysis and aggregating high value logs Static and dynamic analysis of malware with YARA rules FLARE VM and Cuckoo Sandbox Detecting and responding to lateral movement techniques including pass the hash pass the ticket Kerberoasting malicious use of PowerShell and many more Effective threat hunting techniques Adversary emulation with Atomic Red Team Improving preventive and detective controls

**Cybersecurity Career Master Plan** Dr. Gerald Auger,Jaclyn "Jax" Scott,Jonathan Helmus,Kim Nguyen,Heath "The Cyber Mentor" Adams,2021-09-13 Start your Cybersecurity career with expert advice on

how to get certified find your first job and progress Purchase of the print or Kindle book includes a free eBook in PDF format

**Key Features** Learn how to follow your desired career path that results in a well paid rewarding job in cybersecurity Explore expert tips relating to career growth and certification options Access informative content from a panel of experienced cybersecurity experts

**Book Description** Cybersecurity is an emerging career trend and will continue to become increasingly important Despite the lucrative pay and significant career growth opportunities many people are unsure of how to get started This book is designed by leading industry experts to help you enter the world of cybersecurity with confidence covering everything from gaining the right certification to tips and tools for finding your first job The book starts by helping you gain a foundational understanding of cybersecurity covering cyber law cyber policy and frameworks Next you ll focus on how to choose the career field best suited to you from options such as security operations penetration testing and risk analysis The book also guides you through the different certification options as well as the pros and cons of a formal college education versus formal certificate courses Later you ll discover the importance of defining and understanding your brand Finally you ll get up to speed with different career paths and learning opportunities By the end of this cyber book you will have gained the knowledge you need to clearly define your career path and develop goals relating to career progression What you will learn Gain an understanding of cybersecurity essentials including the different frameworks and laws and specialties Find out how to land your first job in the cybersecurity industry Understand the difference between college education and certificate courses Build goals and timelines to encourage a work life balance while delivering value in your job Understand the different types of cybersecurity jobs available and what it means to be entry level Build affordable practical labs to develop your technical skills Discover how to set goals and maintain momentum after landing your first cybersecurity job Who this book is for This book is for college graduates military veterans transitioning from active service individuals looking to make a mid career switch and aspiring IT professionals Anyone who considers cybersecurity as a potential career field but feels intimidated overwhelmed or unsure of where to get started will also find this book useful No experience or cybersecurity knowledge is needed to get started

[The Basics of Hacking and Penetration Testing](#) Patrick Engebretson,2011-07-21 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 **Penn State Alumni Directory** ,2010 Professional Penetration Testing Thomas Wilhelm,2013-06-27 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 *Ethical Hacking and Penetration Testing Guide* Rafay Baloch,2017-09-29 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* Phillip L. Wylie, Kim Crawley, 2020-10-30 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 Basics of Hacking and Penetration Testing** Thomas Wilhelm, Patrick Engubretson, 2026-03-18 The Basics of Hacking and Penetration Testing Third 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 readers 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 clear explanation of how to effectively utilize these tools along with a four step methodology for conducting a penetration test or hack thus equipping readers 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 This new edition includes six all new chapters and has been completely updated to the most current industry standard tools testing methodologies and exploitable targets New chapters on setting up a Pen Testing Lab and Hacking Careers have been added to expand and update the book This is complemented by videos for in class use Presents hands on labs that reinforce concepts and build applied skills used in later test phases Written by authors who work in the field as Penetration Testers and who teach

Offensive Security Penetration Testing Ethical Hacking and Exploitation classes Focuses on the seminal industry standard tools required to complete a penetration test Penetration Testing Georgia Weidman,2014-06-14 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

**Learn Penetration Testing** Rishalin Pillay,2019-05-31 Get up to speed with various penetration testing techniques and resolve security threats of varying complexity Key FeaturesEnhance your penetration testing skills to tackle security threatsLearn to gather information find vulnerabilities and exploit enterprise defensesNavigate secured systems with the most up to date version of Kali Linux 2019 1 and Metasploit 5 0 0 Book Description Sending information via the internet is not entirely private as evidenced by the rise in hacking malware attacks and security threats With the help of this book you ll learn crucial penetration testing techniques to help you evaluate enterprise defenses You ll start by understanding each stage of pentesting and deploying target virtual machines including Linux and Windows Next the book will guide you through performing intermediate penetration testing in a controlled environment With the help of practical use cases you ll also be able to implement your learning in real world scenarios By studying everything from setting up your lab information gathering and password attacks through to social engineering and post exploitation you ll be able to successfully overcome security threats The book will even help you leverage the best tools such as Kali Linux Metasploit Burp Suite and other open source pentesting tools to perform these techniques Toward the later chapters you ll focus on best practices to quickly resolve security threats By the end of this book you ll be well versed with various penetration testing techniques so as to be able to tackle security threats effectively What you will learnPerform entry level penetration tests by learning various concepts and techniquesUnderstand both common and not so common vulnerabilities from an attacker s perspectiveGet familiar with intermediate attack methods that can be used in real world scenariosUnderstand how vulnerabilities are

created by developers and how to fix some of them at source code level Become well versed with basic tools for ethical hacking purposes Exploit known vulnerable services with tools such as Metasploit Who this book is for If you re just getting started with penetration testing and want to explore various security domains this book is for you Security professionals network engineers and amateur ethical hackers will also find this book useful Prior knowledge of penetration testing and ethical hacking is not necessary

**Penetration Testing For Dummies** Robert Shimonski, 2020-04-01 Target test analyze and report on security vulnerabilities with pen testing Pen Testing is necessary for companies looking to target test analyze and patch the security vulnerabilities from hackers attempting to break into and compromise their organizations data It takes a person with hacking skills to look for the weaknesses that make an organization susceptible to hacking Pen Testing For Dummies aims to equip IT enthusiasts at various levels with the basic knowledge of pen testing It is the go to book for those who have some IT experience but desire more knowledge of how to gather intelligence on a target learn the steps for mapping out a test and discover best practices for analyzing solving and reporting on vulnerabilities The different phases of a pen test from pre engagement to completion Threat modeling and understanding risk When to apply vulnerability management vs penetration testing Ways to keep your pen testing skills sharp relevant and at the top of the game Get ready to gather intelligence discover the steps for mapping out tests and analyze and report results

*Perspectives on Ethical Hacking and Penetration Testing* Kaushik, Keshav, Bhardwaj, Akashdeep, 2023-09-11 Cybersecurity has emerged to address the need for connectivity and seamless integration with other devices and vulnerability assessment to find loopholes However there are potential challenges ahead in meeting the growing need for cybersecurity This includes design and implementation challenges application connectivity data gathering cyber attacks and cyberspace analysis Perspectives on Ethical Hacking and Penetration Testing familiarizes readers with in depth and professional hacking and vulnerability scanning subjects The book discusses each of the processes and tools systematically and logically so that the reader can see how the data from each tool may be fully exploited in the penetration test s succeeding stages This procedure enables readers to observe how the research instruments and phases interact This book provides a high level of understanding of the emerging technologies in penetration testing cyber attacks and ethical hacking and offers the potential of acquiring and processing a tremendous amount of data from the physical world Covering topics such as cybercrimes digital forensics and wireless hacking this premier reference source is an excellent resource for cybersecurity professionals IT managers students and educators of higher education librarians researchers and academicians

**The Ethical Hack** James S. Tiller, 2004-09-29 This book 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 It goes beyond the technical aspects of penetration testing to address the processes and rules of engagement for successful tests The text examines testing from a strategic perspective to show how testing ramifications affect an entire organization Security practitioners can use this book to reduce their exposure

and deliver better service while organizations will learn how to align the information about tools techniques and vulnerabilities that they gather from testing with their business objectives

**Ethical Hacker's Certification Guide (CEHv11)** Mohd Sohaib,2021-10-27 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 *Advanced Penetration Testing* Wil Allsopp,2017-02-22 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 *Python Penetration Testing Essentials* Mohit Raj,2018-05-30 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 Penetration Testing for Jobseekers Debasish Mandal,2022-04-19 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

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