Sec560 Network Penetration Testing And Ethical Hacking

Penetration Testing For DummiesThe Basics of Hacking and Penetration TestingBuilding Virtual Pentesting Labs for Advanced Penetration TestingPenetration Testing and Network DefenseTechnical Guide to Information Security Testing and AssessmentPython Penetration Testing CookbookPenetration Testing FundamentalsPenetration Testing with Kali LinuxPenetration Testing: A Survival GuideSocial Engineering Penetration TestingFrom Hacking to Report WritingLearn Penetration TestingProfessional Penetration TestingHands-on Penetration Testing for Web ApplicationsWriting an Effective Penetration Testing ReportExpert Hacking Skills: A Practical Guide to Advanced Penetration Testing and Purple Team StrategiesWindows and Linux Penetration Testing from ScratchPen Testing from Contract to ReportThe Penetration Tester's Guide to Web ApplicationsHands-On Penetration Testing on Windows Robert Shimonski Patrick Engebretson Kevin Cardwell Andrew Whitaker Karen Scarfone Rejah Rehim William Easttom II Pranav Joshi Wolf Halton Gavin Watson Robert Svensson Rishalin Pillay Thomas Wilhelm Richa Gupta Semi Yulianto Jimmie Pratt Phil Bramwell Alfred Basta Serge Borso Phil Bramwell

Penetration Testing For Dummies The Basics of Hacking and Penetration Testing Building Virtual Pentesting Labs for Advanced Penetration Testing Penetration Testing and Network Defense Technical Guide to Information Security Testing and Assessment Python Penetration Testing Cookbook Penetration Testing Fundamentals Penetration Testing with Kali Linux Penetration Testing: A Survival Guide Social Engineering Penetration Testing From Hacking to Report Writing Learn Penetration Testing Professional Penetration Testing Hands-on Penetration Testing for Web Applications Writing an Effective Penetration Testing Report Expert Hacking Skills: A Practical Guide to Advanced Penetration Testing and Purple Team Strategies Windows and Linux Penetration Testing from Scratch Pen Testing from Contract to Report The Penetration Tester's Guide to Web Applications Hands-On Penetration Testing on Windows *Robert Shimonski Patrick Engebretson Kevin Cardwell Andrew Whitaker Karen Scarfone Rejah Rehim William Easttom II Pranav Joshi Wolf Halton Gavin Watson Robert Svensson Rishalin Pillay Thomas Wilhelm Richa Gupta Semi Yulianto Jimmie Pratt Phil Bramwell Alfred Basta Serge Borso Phil Bramwell*

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

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 writen 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 linus distribution and focuses on the seminal tools required to complete a penetration test

learn how to build complex virtual architectures that allow you to perform virtually any required testing methodology and perfect it about this book explore and build intricate architectures that allow you to emulate an enterprise network test and enhance your security skills against complex and hardened virtual architecture learn methods to bypass common enterprise defenses and leverage them to test the most secure environments who this book is for while the book targets advanced penetration testing the process is systematic and as such will provide even beginners with a solid methodology and approach to testing you are expected to have network and security knowledge the book is intended for anyone who wants to build and enhance their existing professional security and penetration testing methods and skills what you will learn learning proven security testing and penetration testing techniques building multi layered complex architectures to test the latest network designs applying a professional testing methodology determining whether there are filters between you and the target and how to penetrate them deploying and finding weaknesses in common firewall architectures learning advanced techniques to deploy against hardened environments learning methods to circumvent endpoint protection controls in detail security flaws and new hacking techniques emerge overnight security professionals need to make sure they always have a way to keep with this practical guide learn how to build your own virtual pentesting lab environments to practice and develop your security skills create challenging environments to test your abilities and overcome them with proven processes and methodologies used by global penetration testing teams get to grips with the techniques needed to build complete virtual machines perfect for pentest training construct and attack layered architectures and plan specific attacks based on the platforms you re going up against find new vulnerabilities for different kinds of systems and networks and what these mean for your clients driven by a proven penetration testing methodology that has trained thousands of testers building virtual labs for advanced penetration testing second edition will prepare you for participation in professional security teams style and approach the book is written in an easy to follow format that provides a step by step process centric approach additionally there are numerous hands on examples and additional references for readers who might want to learn even more the process developed throughout the book has been used to train and build teams all around the world as professional security and penetration testers

the practical guide to simulating detecting and responding to network attacks create step by step testing plans learn to perform social engineering and host reconnaissance evaluate session hijacking methods exploit web server vulnerabilities detect attempts to breach

database security use password crackers to obtain access information circumvent intrusion prevention systems ips and firewall protections and disrupt the service of routers and switches scan and penetrate wireless networks understand the inner workings of trojan horses viruses and other backdoor applications test unix microsoft and novell servers for vulnerabilities learn the root cause of buffer overflows and how to prevent them perform and prevent denial of service attacks penetration testing is a growing field but there has yet to be a definitive resource that instructs ethical hackers on how to perform a penetration test with the ethics and responsibilities of testing in mind penetration testing and network defense offers detailed steps on how to emulate an outside attacker in order to assess the security of a network unlike other books on hacking this book is specifically geared towards penetration testing it includes important information about liability issues and ethics as well as procedures and documentation using popular open source and commercial applications the book shows you how to perform a penetration test on an organization s network from creating a test plan to performing social engineering and host reconnaissance to performing simulated attacks on both wired and wireless networks penetration testing and network defense also goes a step further than other books on hacking as it demonstrates how to detect an attack on a live network by detailing the method of an attack and how to spot an attack on your network this book better prepares you to guard against hackers you will learn how to configure record and thwart these attacks and how to harden a system to protect it against future internal and external attacks full of real world examples and step by step procedures this book is both an enjoyable read and full of practical advice that will help you assess network security and develop a plan for locking down sensitive data and company resources this book goes to great lengths to explain the various testing approaches that are used today and gives excellent insight into how a responsible penetration testing specialist executes his trade bruce murphy vice president world wide security services cisco systems

an info security assessment isa is the process of determining how effectively an entity being assessed e g host system network procedure person meets specific security objectives this is a guide to the basic tech aspects of conducting isa it presents tech testing and examination methods and techniques that an org might use as part of an isa and offers insights to assessors on their execution and the potential impact they may have on systems and networks for an isa to be successful elements beyond the execution of testing and examination must support the tech process suggestions for these activities including a robust planning process root cause analysis and tailored reporting are also presented in this guide illus

over 50 hands on recipes to help you pen test networks using python discover vulnerabilities and find a recovery path about this book learn to detect and avoid various types of attack that put system privacy at risk enhance your knowledge of wireless application concepts and information gathering through practical recipes learn a pragmatic way to penetration test using python build efficient code and save time who this book is for if you are a developer with prior knowledge of using python for penetration testing and if you want an overview of scripting tasks to consider while penetration testing this book will give you a lot of useful code for your toolkit what you will learn learn to configure python in different environment setups find an ip address from a web page using beautifulsoup and scrapy discover different types of packet sniffing script to sniff network packets master layer 2 and tcp ip attacks master techniques for exploit development for windows and linux incorporate various network and packet sniffing techniques using raw sockets and scrapy in detail penetration testing is the use of tools and code to attack a system in order to assess its vulnerabilities to external threats python allows pen testers to create their own tools since python is a highly valued pen testing language there are many native libraries and python bindings available specifically for pen testing tasks python penetration testing cookbook begins by teaching you how to extract information from web pages you will learn how to build an intrusion detection system using network sniffing

techniques next you will find out how to scan your networks to ensure performance and quality and how to carry out wireless pen testing on your network to avoid cyber attacks after that we ll discuss the different kinds of network attack next you ll get to grips with designing your own torrent detection program we ll take you through common vulnerability scenarios and then cover buffer overflow exploitation so you can detect insecure coding finally you ll master pe code injection methods to safeguard your network style and approach this book takes a recipe based approach to solving real world problems in pen testing it is structured in stages from the initial assessment of a system through exploitation to post exploitation tests and provides scripts that can be used or modified for in depth penetration testing

the perfect introduction to pen testing for all it professionals and students clearly explains key concepts terminology challenges tools and skills covers the latest penetration testing standards from nsa pci and nist welcome to today s most useful and practical introduction to penetration testing chuck easttom brings together up to the minute coverage of all the concepts terminology challenges and skills you ll need to be effective drawing on decades of experience in cybersecurity and related it fields easttom integrates theory and practice covering the entire penetration testing life cycle from planning to reporting you ll gain practical experience through a start to finish sample project relying on free open source tools throughout quizzes projects and review sections deepen your understanding and help you apply what you ve learned including essential pen testing standards from nsa pci and nist penetration testing fundamentals will help you protect your assets and expand your career options learn how to understand what pen testing is and how it s used meet modern standards for comprehensive and effective testing review cryptography essentials every pen tester must know perform reconnaissance with nmap google searches and shodanhq use malware as part of your pen testing toolkit test for vulnerabilities in windows shares scripts wmi and the registry pen test websites and web communication recognize sql injection and cross site scripting attacks scan for vulnerabilities with owasp zap vega nessus and mbsa identify linux vulnerabilities and password cracks use kali linux for advanced pen testing apply general hacking technique ssuch as fake wi fi hotspots and social engineering systematically test your environment with metasploit write or customize sophisticated metasploit exploits

perform effective and efficient penetration testing in an enterprise scenario key features understand the penetration testing process using a highly customizable modular framework exciting use cases demonstrating every action of penetration testing on target systems equipped with proven techniques and best practices from seasoned pen testing practitioners experience driven from actual penetration testing activities from multiple mncs covers a distinguished approach to assess vulnerabilities and extract insights for further investigation description this book is designed to introduce the topic of penetration testing using a structured and easy to learn process driven framework understand the theoretical aspects of penetration testing and create a penetration testing lab environment consisting of various targets to learn and practice your skills learn to comfortably navigate the kali linux and perform administrative activities get to know shell scripting and write simple scripts to effortlessly run complex commands and automate repetitive testing tasks explore the various phases of the testing framework while practically demonstrating the numerous tools and techniques available within kali linux starting your journey from gathering initial information about the targets and performing enumeration to identify potential weaknesses and sequentially building upon this knowledge to refine the attacks and utilize weaknesses to fully compromise the target machines the authors of the book lay a particularly strong emphasis on documentation and the importance of generating crisp and concise reports which keep the various stakeholders requirements at the center stage what you will learn understand the penetration testing process and its various phases perform practical penetration testing using the various tools available in kali linux get to know the process of penetration testing and set up the kali linux virtual

environment perform active and passive reconnaissance learn to execute deeper analysis of vulnerabilities and extract exploit codes learn to solve challenges while performing penetration testing with expert tips who this book is for this book caters to all it professionals with a basic understanding of operating systems networking and linux can use this book to build a skill set for performing real world penetration testing table of contents 1 the basics of penetration testing 2 penetration testing lab 3 finding your way around kali linux 4 understanding the pt process and stages 5 planning and reconnaissance 6 service enumeration and scanning 7 vulnerability research 8 exploitation 9 post exploitation 10 reporting

a complete pentesting guide facilitating smooth backtracking for working hackers about this book conduct network testing surveillance pen testing and forensics on ms windows using kali linux gain a deep understanding of the flaws in web applications and exploit them in a practical manner pentest android apps and perform various attacks in the real world using real case studies who this book is for this course is for anyone who wants to learn about security basic knowledge of android programming would be a plus what you will learn exploit several common windows network vulnerabilities recover lost files investigate successful hacks and discover hidden data in innocent looking files expose vulnerabilities present in web servers and their applications using server side attacks use sql and cross site scripting xss attacks check for xss flaws using the burp suite proxy acquaint yourself with the fundamental building blocks of android apps in the right way take a look at how your personal data can be stolen by malicious attackers see how developers make mistakes that allow attackers to steal data from phones in detail the need for penetration testers has grown well over what the it industry ever anticipated running just a vulnerability scanner is no longer an effective method to determine whether a business is truly secure this learning path will help you develop the most effective penetration testing skills to protect your windows web applications and android devices the first module focuses on the windows platform which is one of the most common oses and managing its security spawned the discipline of it security kali linux is the premier platform for testing and maintaining windows security employs the most advanced tools and techniques to reproduce the methods used by sophisticated hackers in this module first you ll be introduced to kali s top ten tools and other useful reporting tools then you will find your way around your target network and determine known vulnerabilities so you can exploit a system remotely you ll not only learn to penetrate in the machine but will also learn to work with windows privilege escalations the second module will help you get to grips with the tools used in kali linux 2 0 that relate to web application hacking you will get to know about scripting and input validation flaws ajax and security issues related to ajax you will also use an automated technique called fuzzing so you can identify flaws in a web application finally you ll understand the web application vulnerabilities and the ways they can be exploited in the last module you ll get started with android security android being the platform with the largest consumer base is the obvious primary target for attackers you ll begin this journey with the absolute basics and will then slowly gear up to the concepts of android rooting application security assessments malware infecting apk files and fuzzing you ll gain the skills necessary to perform android application vulnerability assessments and to create an android pentesting lab this learning path is a blend of content from the following packt products kali linux 2 windows penetration testing by wolf halton and bo weaver penetration testing with kali linux second edition by juned ahmed ansari hacking android by srinivasa rao kotipalli and mohammed a imran style and approach this course uses easy to understand yet professional language for explaining concepts to test your network s security

social engineering attacks target the weakest link in an organization s security human beings everyone knows these attacks are effective and everyone knows they are on the rise now social engineering penetration testing gives you the practical methodology and everything you need to plan and execute a social engineering penetration test and assessment you will gain

fascinating insights into how social engineering techniques including email phishing telephone pretexting and physical vectors can be used to elicit information or manipulate individuals into performing actions that may aid in an attack using the book s easy to understand models and examples you will have a much better understanding of how best to defend against these attacks the authors of social engineering penetration testing show you hands on techniques they have used at randomstorm to provide clients with valuable results that make a real difference to the security of their businesses you will learn about the differences between social engineering pen tests lasting anywhere from a few days to several months the book shows you how to use widely available open source tools to conduct your pen tests then walks you through the practical steps to improve defense measures in response to test results understand how to plan and execute an effective social engineering assessment learn how to configure and use the open source tools available for the social engineer identify parts of an assessment that will most benefit time critical engagements learn how to design target scenarios create plausible attack situations and support various attack vectors with technology create an assessment report then improve defense measures in response to test results

this book will teach you everything you need to know to become a professional security and penetration tester it simplifies hands on security and penetration testing by breaking down each step of the process so that finding vulnerabilities and misconfigurations becomes easy the book explains how to methodically locate exploit and professionally report security weaknesses using techniques such as sql injection denial of service attacks and password hacking although from hacking to report writing will give you the technical know how needed to carry out advanced security tests it also offers insight into crafting professional looking reports describing your work and how your customers can benefit from it the book will give you the tools you need to clearly communicate the benefits of high quality security and penetration testing to it management executives and other stakeholders embedded in the book are a number of on the job stories that will give you a good understanding of how you can apply what you have learned to real world situations we live in a time where computer security is more important than ever staying one step ahead of hackers has never been a bigger challenge from hacking to report writing clarifies how you can sleep better at night knowing that your network has been thoroughly tested what you ll learn clearly understand why security and penetration testing is important how to find vulnerabilities in any system using the same techniques as hackers do write professional looking reports know which security and penetration testing method to apply for any given situation how to successfully hold together a security and penetration test project who this book is for aspiring security and penetration testers security consultants security and penetration testers it managers and security researchers

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 levelbecome well versed with basic tools for ethical hacking purposesexploit known vulnerable services with tools such as metasploitwho 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

professional penetration testing creating and learning in a hacking lab third edition walks the reader 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 chapters cover planning metrics and methodologies the details of running a pen test including identifying and verifying vulnerabilities and archiving reporting and management practices the material presented will be useful to beginners through advanced practitioners here author thomas wilhelm has delivered penetration testing training to countless security professionals and now through the pages of this book the reader can benefit from his years of experience as a professional penetration tester and educator after reading this book the reader will be able to create a personal penetration test lab that can deal with real world vulnerability scenarios this is a detailed and thorough examination of both the technicalities and the business of pen testing and an excellent starting point for anyone getting into the field network security helps users find out how to turn hacking and pen testing skills into a professional career covers how to conduct controlled attacks on a network through real world examples of vulnerable and exploitable servers presents metrics and reporting methodologies that provide experience crucial to a professional penetration tester includes test lab code that is available on the web

description hands on penetration testing for applications offers readers with the knowledge and skillset to identify exploit and control the security vulnerabilities present in commercial web applications including online banking mobile payments and e commerce applications covering a diverse array of topics this book provides a comprehensive overview of web application security testing methodologies each chapter offers key insights and practical applications that align with the objectives of the course students will explore critical areas such as vulnerability identification penetration testing techniques using open source pen test management and reporting tools testing applications hosted on cloud and automated security testing tools throughout the book readers will encounter essential concepts and tools such as owasp top 10 vulnerabilities sql injection cross site scripting xss authentication and authorization testing and secure configuration practices with a focus on real world applications students will develop critical thinking skills problem solving abilities and a security first mindset required to address the challenges of modern web application threats with a deep understanding of security vulnerabilities and testing solutions students will have the confidence to explore new opportunities drive innovation and make informed decisions in the rapidly evolving field of cybersecurity key features exciting coverage on vulnerabilities and security loopholes in modern web applications practical exercises and case scenarios on performing pen testing and identifying security breaches this new edition brings enhanced cloud security coverage and comprehensive penetration test management using attackforge for streamlined vulnerability documentation and remediation what you will learn navigate the complexities of web application security testing an overview of the modern application vulnerabilities detection techniques tools and web penetration testing methodology framework contribute meaningfully

to safeguarding digital systems address the challenges of modern web application threats this edition includes testing modern web applications with emerging trends like devsecops api security and cloud hosting this edition brings devsecops implementation using automated security approaches for continuous vulnerability remediation who this book is for the target audience for this book includes students security enthusiasts penetration testers and web application developers individuals who are new to security testing will be able to build an understanding about testing concepts and find this book useful people will be able to gain expert knowledge on pentesting tools and concepts table of contents 1 introduction to security threats 2 application security essentials 3 pentesting methodology 4 testing authentication failures 5 testing secure session management 6 testing broken access control 7 testing sensitive data exposure 8 testing secure data validation 9 techniques to attack application users 10 testing security misconfigurations 11 automating security attacks 12 penetration testing tools 13 pen test management and reporting 14 defense in depth 15 security testing in cloud

penetration test or pentest is a typical security assessment which is the process to gain access to specific information assets eq computer systems network infrastructure or application penetration test simulates the attack performed internally or externally by the attackers which has the intention to find security weaknesses or vulnerabilities and validate the potential impacts and risks should those vulnerabilities being exploited security issues found through penetration test are presented to the system s owner data owner or risk owner effective penetration test will support this information with accurate assessment of the potential impacts to the organization and range of technical and procedural safeguards should be planned and executed to mitigate risks many penetration testers are in fact very good in technical since they have skills needed to perform all of the tests but they are lack of report writing methodology and approach which create a very big gap in penetration testing cycle a penetration test is useless without something tangible to give to a client or senior management report writing is a crucial part for any service providers eq it service advisory a report should detail the outcome of the test and if you are making recommendations document the recommendations to secure any high risk systems the target audience of a penetration testing report will vary technical report will be read by it or any responsible information security people while executive summary will definitely be read by the senior management writing an effective penetration testing report is an art that needs to be learned and to make sure that the report will deliver the right information to the targeted audience after reading the book you will be able to understand on how to create a good and effective penetration testing report understand the mechanism to provide an effective deliverables apply risk management knowledge skills and blend them in your deliverables

are you ready to elevate your cybersecurity expertise from theoretical knowledge to real world application this comprehensive guide serves as your hands on companion to mastering advanced penetration testing and collaborative security approaches go beyond the basics as you explore sophisticated techniques used by ethical hackers to identify and exploit vulnerabilities in modern systems and networks you ll gain practical experience with a wide array of tools and methodologies from reconnaissance and social engineering to web application hacking and post exploitation this book acknowledges that simply finding vulnerabilities is no longer enough organizations need skilled professionals who can not only uncover weaknesses but also work collaboratively to strengthen their security posture that s why this book dives deep into the world of purple teaming a collaborative approach that brings together red and blue teams for a more holistic security strategy this book is ideally suited for aspiring penetration testers cybersecurity professionals looking to advance their skills and organizations striving to build more resilient systems whether you are a student security enthusiast or seasoned professional this book equips you with the practical skills and knowledge needed to thrive in the ever evolving landscape of cybersecurity

master the art of identifying and exploiting vulnerabilities with metasploit empire powershell and python turning kali linux into your fighter cockpit key featuresmap your client s attack surface with kali linuxdiscover the craft of shellcode injection and managing multiple compromises in the environmentunderstand both the attacker and the defender mindsetbook description let s be honest security testing can get repetitive if you re ready to break out of the routine and embrace the art of penetration testing this book will help you to distinguish yourself to your clients this pen testing book is your guide to learning advanced techniques to attack windows and linux environments from the indispensable platform kali linux you ll work through core network hacking concepts and advanced exploitation techniques that leverage both technical and human factors to maximize success you ll also explore how to leverage public resources to learn more about your target discover potential targets analyze them and gain a foothold using a variety of exploitation techniques while dodging defenses like antivirus and firewalls the book focuses on leveraging target resources such as powershell to execute powerful and difficult to detect attacks along the way you ll enjoy reading about how these methods work so that you walk away with the necessary knowledge to explain your findings to clients from all backgrounds wrapping up with post exploitation strategies you ll be able to go deeper and keep your access by the end of this book you ll be well versed in identifying vulnerabilities within your clients environments and providing the necessary insight for proper remediation what you will learnget to know advanced pen testing techniques with kali linuxgain an understanding of kali linux tools and methods from behind the scenesget to grips with the exploitation of windows and linux clients and serversunderstand advanced windows concepts and protection and bypass them with kali and living off the land methodsget the hang of sophisticated attack frameworks such as metasploit and empirebecome adept in generating and analyzing shellcodebuild and tweak attack scripts and moduleswho this book is for this book is for penetration testers information technology professionals cybersecurity professionals and students and individuals breaking into a pentesting role after demonstrating advanced skills in boot camps prior experience with windows linux and networking is necessary

protect your system or web application with this accessible guide penetration tests also known as pen tests are a means of assessing the security of a computer system by simulating a cyber attack these tests can be an essential tool in detecting exploitable vulnerabilities in a computer system or web application averting potential user data breaches privacy violations losses of system function and more with system security an increasingly fundamental part of a connected world it has never been more important that cyber professionals understand the pen test and its potential applications pen testing from contract to report offers a step by step overview of the subject built around a new concept called the penetration testing life cycle it breaks the process into phases guiding the reader through each phase and its potential to expose and address system vulnerabilities the result is an essential tool in the ongoing fight against harmful system intrusions in pen testing from contract to report readers will also find content mapped to certification exams such as the comptia pentest detailed techniques for evading intrusion detection systems firewalls honeypots and more accompanying software designed to enable the reader to practice the concepts outlined as well as end of chapter questions and case studies pen testing from contract to report is ideal for any cyber security professional or advanced student of cyber security

this innovative new resource provides both professionals and aspiring professionals with clear guidance on how to identify and exploit common web application vulnerabilities the book focuses on offensive security and how to attack web applications it describes each of the open application security project owasp top ten vulnerabilities including broken authentication cross site scripting and insecure deserialization and details how to identify and exploit each weakness readers learn to bridge the gap between high risk vulnerabilities and exploiting flaws to get shell access the book demonstrates how to work in a professional services space to

produce quality and thorough testing results by detailing the requirements of providing a best of class penetration testing service it offers insight into the problem of not knowing how to approach a web app pen test and the challenge of integrating a mature pen testing program into an organization based on the author s many years of first hand experience this book provides examples of how to break into user accounts how to breach systems and how to configure and wield penetration testing tools

master the art of identifying vulnerabilities within the windows os and develop the desired solutions for it using kali linux key features identify the vulnerabilities in your system using kali linux 2018 02 discover the art of exploiting windows kernel drivers get to know several bypassing techniques to gain control of your windows environment book description windows has always been the go to platform for users around the globe to perform administration and ad hoc tasks in settings that range from small offices to global enterprises and this massive footprint makes securing windows a unique challenge this book will enable you to distinguish yourself to your clients in this book you ll learn advanced techniques to attack windows environments from the indispensable toolkit that is kali linux we ll work through core network hacking concepts and advanced windows exploitation techniques such as stack and heap overflows precision heap spraying and kernel exploitation using coding principles that allow you to leverage powerful python scripts and shellcode we ll wrap up with post exploitation strategies that enable you to go deeper and keep your access finally we ll introduce kernel hacking fundamentals and fuzzing testing so you can discover vulnerabilities and write custom exploits by the end of this book you ll be well versed in identifying vulnerabilities within the windows os and developing the desired solutions for them what you will learn get to know advanced pen testing techniques with kali linux gain an understanding of kali linux tools and methods from behind the scenes see how to use kali linux at an advanced level understand the exploitation of windows kernel drivers understand advanced windows concepts and protections and how to bypass them using kali linux discover windows exploitation techniques such as stack and heap overflows and kernel exploitation through coding principles who this book is for this book is for penetration testers ethical hackers and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps prior experience with windows exploitation kali linux and some windows debugging tools is necessary

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