

Kali Linux 2 Assuring Security By Penetration Testing 3rd

Penetration Testing Kali Linux – Assuring Security by Penetration Testing Kali Linux 2 – Assuring Security by Penetration Testing Kali Linux 2018: Assuring Security by Penetration Testing Penetration Testing For Dummies Building Virtual Pentesting Labs for Advanced Penetration Testing Windows and Linux Penetration Testing from Scratch Penetration Testing Fundamentals Penetration Testing with Kali Linux Hands–on Penetration Testing for Web Applications The Basics of Hacking and Penetration Testing The Penetration Tester's Guide to Web Applications Penetration Testing Basics Writing an Effective Penetration Testing Report From Hacking to Report Writing Penetration Testing: A Survival Guide Python Penetration Testing Cookbook BackTrack 4 Hands–On Application Penetration Testing with Burp Suite Professional Penetration Testing Georgia Weidman Lee Allen Gerard Johansen Shiva V. N. Parasram Robert Shimonski Kevin Cardwell Phil Bramwell William Easttom II Pranav Joshi Richa Gupta Patrick Engebretson Serge Borso Ric Messier Semi Yulianto Robert Svensson Wolf Halton Rejah Rehim Shakeel Ali Carlos A. Lozano Thomas Wilhelm

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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

written as an interactive tutorial this book covers the core of kali linux with real world examples and step by step instructions to provide professional guidelines and recommendations for you the book is designed in a simple and intuitive manner that allows you to explore the whole kali linux testing process or study parts of it individually if you are an it security professional who has a basic knowledge of unix linux operating systems including an awareness of information security factors and want to use kali linux for penetration testing then this book is for you

achieve the gold standard in penetration testing with kali using this masterpiece now in its third edition about this book get a rock solid insight into penetration testing techniques and test your corporate network against threats like never before formulate your pentesting

strategies by relying on the most up to date and feature rich kali version in town kali linux 2 aka sana experience this journey with new cutting edge wireless penetration tools and a variety of new features to make your pentesting experience smoother who this book is for if you are an it security professional or a student with basic knowledge of unix linux operating systems including an awareness of information security factors and you want to use kali linux for penetration testing this book is for you what you will learn find out to download and install your own copy of kali linux properly scope and conduct the initial stages of a penetration test conduct reconnaissance and enumeration of target networks exploit and gain a foothold on a target system or network obtain and crack passwords use the kali linux nethunter install to conduct wireless penetration testing create proper penetration testing reports in detail kali linux is a comprehensive penetration testing platform with advanced tools to identify detect and exploit the vulnerabilities uncovered in the target network environment with kali linux you can apply appropriate testing methodology with defined business objectives and a scheduled test plan resulting in a successful penetration testing project engagement kali linux assuring security by penetration testing is a fully focused structured book providing guidance on developing practical penetration testing skills by demonstrating cutting edge hacker tools and techniques with a coherent step by step approach this book offers you all of the essential lab preparation and testing procedures that reflect real world attack scenarios from a business perspective in today s digital age style and approach this practical guide will showcase penetration testing through cutting edge tools and techniques using a coherent step by step approach

achieve the gold standard in penetration testing with kali using this masterpiece now in its fourth edition key featuresrely on the most updated version of kali to formulate your pentesting strategiestest your corporate network against threatsexplore new cutting edge wireless penetration tools and featuresbook description kali linux is a comprehensive penetration testing platform with advanced tools to identify detect and exploit the vulnerabilities uncovered in the target network environment with kali linux you can apply the appropriate testing methodology with defined business objectives and a scheduled test plan resulting in successful penetration testing project engagement this fourth edition of kali linux 2018 assuring security by penetration testing starts with the installation of kali linux you will be able to create a full test environment to safely practice scanning vulnerability assessment and exploitation you ll explore

the essentials of penetration testing by collecting relevant data on the target network with the use of several footprinting and discovery tools as you make your way through the chapters you'll focus on specific hosts and services via scanning and run vulnerability scans to discover various risks and threats within the target which can then be exploited in the concluding chapters you'll apply techniques to exploit target systems in order to gain access and find a way to maintain that access you'll also discover techniques and tools for assessing and attacking devices that are not physically connected to the network including wireless networks by the end of this book you will be able to use nethunter the mobile version of kali linux and write a detailed report based on your findings what you will learn conduct the initial stages of a penetration test and understand its scope perform reconnaissance and enumeration of target networks obtain and crack passwords use kali linux nethunter to conduct wireless penetration testing create proper penetration testing reports understand the pci dss framework and tools used to carry out segmentation scans and penetration testing carry out wireless auditing assessments and penetration testing understand how a social engineering attack such as phishing works who this book is for this fourth edition of kali linux 2018 assuring security by penetration testing is for pentesters ethical hackers and it security professionals with basic knowledge of unix linux operating systems prior knowledge of information security will help you understand the concepts in this book

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 enthusiasts at various levels with the basic knowledge of pen testing it is the go to book for those who have some 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

written in an easy to follow approach using hands on examples this book helps you create virtual environments for advanced penetration testing enabling you to build a multi layered architecture to include firewalls ids ips web application firewalls and endpoint protection which is essential in the penetration testing world if you are a penetration tester security consultant security test engineer or analyst who wants to practice and perfect penetration testing skills by building virtual pentesting labs in varying industry scenarios this is the book for you this book is ideal if you want to build and enhance your existing pentesting methods and skills basic knowledge of network security features is expected along with web application testing experience

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

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

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

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

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

learn how to break systems networks and software in order to determine where the bad guys might get in once the holes have been determined this short book discusses how they can be fixed until they have been located they are exposures to your organization by reading penetration testing basics you ll gain the foundations of a simple methodology used to perform penetration testing on systems and networks for which you are responsible what you will learn identify security vulnerabilities use some of the top security tools to identify holes read reports from testing tools spot and negate common attacks identify common based attacks and exposures as well as recommendations for closing those holes who this book is for anyone who has some familiarity with computers and an interest in information security and penetration testing

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

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

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 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

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

master the art of penetration testing with backtrack

test fuzz and break web applications and services using burp suite s powerful capabilities key featuresmaster the skills to perform various types of security tests on your web applicationsget hands on experience working with components like scanner proxy intruder and much morediscover the best way to penetrate and test web applicationsbook description burp suite is a set of graphic tools focused towards penetration testing of web applications burp suite is widely used for web penetration testing by many security

professionals for performing different web level security tasks the book starts by setting up the environment to begin an application penetration test you will be able to configure the client and apply target whitelisting you will also learn to setup and configure android and ios devices to work with burp suite the book will explain how various features of burp suite can be used to detect various vulnerabilities as part of an application penetration test once detection is completed and the vulnerability is confirmed you will be able to exploit a detected vulnerability using burp suite the book will also covers advanced concepts like writing extensions and macros for burp suite finally you will discover various steps that are taken to identify the target discover weaknesses in the authentication mechanism and finally break the authentication implementation to gain access to the administrative console of the application by the end of this book you will be able to effectively perform end to end penetration testing with burp suite what you will learn set up burp suite and its configurations for an application penetration test proxy application traffic from browsers and mobile devices to the server discover and identify application security issues in various scenarios exploit discovered vulnerabilities to execute commands exploit discovered vulnerabilities to gain access to data in various data stores write your own burp suite plugin and explore the infiltrator module write macros to automate tasks in burp suite who this book is for if you are interested in learning how to test web applications and the web part of mobile applications using burp then this is the book for you it is specifically designed to meet your needs if you have basic experience in using burp and are now aiming to become a professional burp user

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 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

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Introduction

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