the hacker playbook 2 practical guide to penetration testing

The Hacker Playbook 2 Practical Guide To Penetration Testing The Hacker Playbook 2: Practical Guide to Penetration Testing is a comprehensive resource that has become an essential manual for cybersecurity professionals, ethical hackers, and penetration testers worldwide. Building upon the foundation set by its predecessor, this book offers practical, real-world tactics, techniques, and methodologies to simulate cyberattacks effectively. It emphasizes a hands-on approach, guiding readers through the entire lifecycle of a penetration test—from reconnaissance and scanning to exploitation, post-exploitation, and reporting. This article delves into the core concepts, methodologies, and practical insights presented in The Hacker Playbook 2, aiming to equip readers with the knowledge needed to conduct efficient and effective penetration tests. Overview of The Hacker Playbook 2 Purpose and Audience The Hacker Playbook 2 is tailored for cybersecurity professionals seeking to enhance their offensive security skills. Whether you're a penetration tester, security analyst, or a security enthusiast, the book provides actionable tactics to identify and exploit vulnerabilities responsibly. Its goal is to bridge the gap between theoretical knowledge and practical application, making it invaluable for training and real-world engagements. Structure and Content The book is organized into several sections that mirror the typical phases of a penetration test: - Reconnaissance and Information Gathering - Scanning and Enumeration - Exploitation - Post-Exploitation and Pivoting - Maintaining Access - Covering Tracks - Reporting and Documentation Each section contains detailed techniques, command-line examples, and real-world scenarios, making it a practical guide rather than just a theoretical manual. Core Principles of Penetration Testing in The Hacker Playbook 2 Adopt a Methodical Approach One of the key lessons emphasized throughout the book is the importance of following a structured methodology. This ensures thorough coverage and minimizes the chances of missing critical vulnerabilities. 2 Leverage Open Source Tools The book advocates for the extensive use of open-source tools such as Nmap, Metasploit, Burp Suite, and others, emphasizing their effectiveness in various phases of testing. Understand the Target Environment Successful penetration testing hinges on understanding the target's architecture, technologies, and defenses. This knowledge guides the selection of appropriate techniques. Maintain Ethical Standards While the book details offensive techniques, it underscores the importance

of ethical conduct, obtaining proper authorization, and reporting vulnerabilities responsibly. Practical Techniques and Methodologies Reconnaissance and Information Gathering This initial phase involves collecting as much information as possible about the target. Techniques include: Passive Reconnaissance: Using publicly available information, OSINT tools, and social engineering. Active Reconnaissance: Conducting network scans, DNS enumeration, and service fingerprinting. Tools such as Recon-ng, Maltego, and theHarvester are frequently recommended for gathering intelligence. Scanning and Enumeration Once initial information is obtained, the next step is identifying live hosts, open ports, and services: Ping sweeps to identify active hosts.1. Port scanning with Nmap to discover open services and versions.2. Service enumeration to identify potential vulnerabilities.3. The book discusses techniques to evade detection during scanning, such as using decoys and timing options. 3 Exploitation Exploitation involves leveraging identified vulnerabilities to gain access: Using Metasploit Framework for rapid development and deployment of exploits. Custom scripting and manual exploitation for vulnerabilities not covered by automated tools. Web application attacks, including SQL injection, Cross-Site Scripting (XSS), and file inclusion vulnerabilities. Practical advice includes pivoting to other systems post-exploitation and escalating privileges. Post-Exploitation and Pivoting After gaining initial access, attackers often seek to expand their control: Maintaining access via backdoors and persistence mechanisms.1. Escalating privileges to system or administrator level.2. Pivoting to other network segments to expand the attack surface.3. The book emphasizes stealth and maintaining operational security during these activities. Covering Tracks and Persistence While offensive operations often aim to remain undetected, penetration testers may also simulate attacker behaviors: Cleaning logs and evidence of exploitation. Implementing persistence methods to maintain access. Understanding these techniques helps defenders recognize signs of compromise. Advanced Topics and Techniques Social Engineering The Hacker Playbook 2 covers social engineering tactics, including phishing, pretexting, and baiting, illustrating how human factors can be exploited to gain access. Bypassing Security Controls Techniques such as evading antivirus detection, bypassing Web Application Firewalls (WAFs), and exploiting misconfigurations are discussed in detail. 4 Automating Attacks Automation is vital for efficiency: Using scripting languages like Python and PowerShell for custom exploits. Automating reconnaissance and scanning processes. Reporting and Documentation A crucial aspect of penetration testing is delivering clear, comprehensive reports: - Summarize findings with actionable recommendations. - Document methodologies, tools used, and vulnerabilities identified. - Prioritize vulnerabilities based on risk assessment. The book advocates for transparent communication to facilitate remediation. Hands-On Exercises and Labs The Hacker Playbook 2 provides practical exercises to reinforce learning: - Setting up lab environments using virtual machines. - Simulating attack scenarios. - Testing various attack vectors in controlled environments. These labs

help readers develop real-world skills and confidence. Ethical and Legal Considerations While the book delves into offensive techniques, it emphasizes: - Obtaining explicit permission before testing. - Respecting privacy and confidentiality. - Understanding legal boundaries and compliance requirements. Conclusion The Hacker Playbook 2 serves as an invaluable resource for those looking to master penetration testing through practical, real-world guidance. Its structured approach, comprehensive techniques, and focus on hands-on exercises make it an ideal manual for aspiring and experienced cybersecurity professionals alike. By adopting its methodologies, practitioners can better understand attacker behaviors, identify vulnerabilities more effectively, and contribute to building more secure systems. As cybersecurity threats evolve, continuous learning and adaptation remain essential, and The Hacker Playbook 2 provides a solid foundation upon which to build advanced offensive security skills. QuestionAnswer 5 What are the key differences between The Hacker Playbook 1 and The Hacker Playbook 2? The Hacker Playbook 2 expands on practical penetration testing techniques with a focus on real- world scenarios, advanced exploitation methods, and comprehensive coverage of testing tools and methodologies, whereas the first edition laid the foundational concepts of penetration testing. How does The Hacker Playbook 2 approach the reconnaissance phase in penetration testing? The book emphasizes active and passive reconnaissance techniques, including open-source intelligence (OSINT), network scanning, and enumeration, providing detailed step-by-step methods to gather valuable information before exploitation. What tools and techniques are primarily covered in The Hacker Playbook 2 for exploiting vulnerabilities? It covers a range of tools such as Metasploit, Burp Suite, Nmap, and custom scripts, along with techniques like privilege escalation, web application exploitation, and lateral movement to simulate real attack scenarios. Does The Hacker Playbook 2 include practical exercises or labs for hands-on learning? Yes, the book features practical exercises, real-world examples, and step-by-step guides to help readers practice and reinforce their penetration testing skills in a controlled environment. Is The Hacker Playbook 2 suitable for beginners or advanced penetration testers? While it is accessible to those new to penetration testing, the book is particularly valuable for intermediate and advanced practitioners due to its in- depth coverage of complex attack techniques and advanced penetration testing strategies. How does The Hacker Playbook 2 address post-exploitation and maintaining access? It provides detailed guidance on post-exploitation activities such as establishing persistence, privilege escalation, data exfiltration, and covering tracks to simulate real attacker behaviors. Can The Hacker Playbook 2 be used as a training resource for cybersecurity teams? Absolutely, the book serves as an effective training resource for cybersecurity professionals, offering practical insights, structured methodologies, and real- world scenarios to enhance team skills in penetration testing and security assessment. Hacker Playbook 2: Practical Guide to Penetration Testing — An In-Depth Review In the rapidly evolving landscape

of cybersecurity, staying ahead of malicious actors requires not only vigilance but also a comprehensive understanding of offensive security techniques. Among the plethora of resources available, The Hacker Playbook 2: Practical Guide to Penetration Testing stands out as a definitive manual for security professionals, penetration testers, and cybersecurity enthusiasts eager to deepen their offensive skills. Authored by Peter Kim, a seasoned security researcher and penetration tester, the book offers pragmatic insights, real-world scenarios, and systematic methodologies that bridge theoretical knowledge with practical application. This article aims to provide an in-depth The Hacker Playbook 2 Practical Guide To Penetration Testing 6 review of The Hacker Playbook 2, analyzing its structure, core content, and practical value. Whether you're a seasoned security professional or a newcomer to penetration testing, this guide aims to shed light on how the book's approach can enhance your offensive security toolkit. --- Overview of The Hacker Playbook 2 The Hacker Playbook 2 is a follow-up to the original, expanding on previous concepts with more detailed techniques, updated tactics, and a clearer focus on real-world application. Spanning over 400 pages, the book is organized systematically to guide readers through the entire penetration testing lifecycle — from reconnaissance to post-exploitation. The book adopts a "playbook" approach, framing each phase of attack as a series of plays, strategies, and countermeasures. This analogy resonates well with security professionals familiar with sports tactics, emphasizing planning, adaptation, and execution. Key features include: - Step-by-step methodologies for conducting penetration tests. - Hands- on techniques for exploiting vulnerabilities. - Coverage of modern attack vectors including web applications, networks, wireless, and social engineering. - Tools and scripts that can be employed in real-world scenarios. - Emphasis on stealth and operational security to avoid detection. --- Core Sections and Their Practical Significance The book is divided into multiple sections, each focusing on a critical phase of penetration testing. Below, we analyze these sections in detail, emphasizing their practical utility. 1. Reconnaissance and Footprinting Overview: This initial phase centers around gathering as much intelligence as possible about the target. The book covers techniques for passive and active reconnaissance, including open-source intelligence (OSINT), network scanning, and information harvesting. Practical Insights: - Using tools like Recon-ng, theHarvester, and Nmap for comprehensive data collection. - Techniques for extracting information from social media, DNS records, and public databases. - Automating reconnaissance to speed up the process and uncover hidden vectors. Expert Tip: Effective reconnaissance sets the foundation for the entire attack. The book emphasizes meticulous data collection, which can reveal overlooked vulnerabilities or entry points. 2. Scanning and Enumeration Overview: Once initial information is obtained, the next step is identifying live hosts, open ports, and services running on target systems. Practical Insights: - Deep dives into port scanning techniques, including TCP connect scans, SYN scans, and version detection. - The Hacker Playbook 2 Practical

Guide To Penetration Testing 7 Enumeration strategies for extracting detailed service information, user accounts, and configurations. - Use of tools like Nmap, Nikto, Masscan, and custom scripts. Expert Tip: The chapter underscores the importance of stealth; aggressive scanning can trigger alarms. Timing and technique choices are crucial to avoid detection. 3. Exploitation and Gaining Access Overview: This core section details how to leverage identified vulnerabilities to compromise systems. Practical Insights: - Exploit development and usage of pre-built exploits with frameworks like Metasploit. - Web application attacks, including SQL injection, Cross-Site Scripting (XSS), and file inclusion vulnerabilities. - Exploiting misconfigurations, weak passwords, and unpatched software. Tools and Scripts: - Metasploit modules for rapid exploitation. - Custom scripts for bypassing filters or exploiting specific vulnerabilities. - Techniques for privilege escalation post-compromise. Expert Tip: The book advocates for a methodical, controlled approach—testing exploits carefully to ensure stability and avoid detection. 4. Maintaining Access and Covering Tracks Overview: After gaining initial access, maintaining persistence is critical. This section explores methods to establish backdoors and evade detection. Practical Insights: - Deploying web shells, reverse shells, and implanting persistent backdoors. - Using tools like Meterpreter, PowerShell, and custom implants. - Clearing logs and covering tracks to prolong access. Expert Tip: Operational security (OpSec) is emphasized; understanding how to minimize forensic footprints can extend engagement duration. 5. Post-Exploitation and Lateral Movement Overview: The focus here is on extracting valuable data, escalating privileges, and moving laterally within the network to target high-value assets. Practical Insights: - Credential harvesting techniques, including Pass-the-Hash and Kerberos attacks. - Pivoting through compromised hosts using proxies and tunneling. - Gathering sensitive data such as databases, emails, and internal documents. Tools Highlighted: - BloodHound for Active Directory enumeration. - CrackMapExec for post-exploit automation. - Custom scripts for lateral movement. Expert Tip: Effective lateral movement requires patience, stealth, and a thorough understanding of the network topology. 6. Reporting and Clean-up Overview: Concluding a penetration test involves documenting findings, providing actionable recommendations, and ensuring cleanup to remove traces. Practical Insights: - Writing clear, concise reports that translate technical findings into business risks. - The Hacker Playbook 2 Practical Guide To Penetration Testing 8 Techniques for cleaning logs and removing artifacts. - Providing remediation strategies to mitigate vulnerabilities. Expert Tip: Professionalism in reporting ensures clients understand the risks and take necessary action, solidifying the tester’s role as a trusted advisor. --- Tools and Techniques Emphasized in the Book The Hacker Playbook 2 is notable for its pragmatic approach, emphasizing tools that are accessible and effective. Some of the key tools and techniques include: - Metasploit Framework: For rapid exploitation and post-exploitation activities. - Nmap and Masscan: For network scanning at scale. - Burp Suite and OWASP ZAP: For web

application testing. - PowerShell and Python: For scripting custom exploits and automation. - Social Engineering Tactics: Phishing, pretexting, and physical security bypasses. The book also discusses the importance of customizing tools and scripts to adapt to specific environments, highlighting a flexible mindset over reliance on canned exploits. --- Strengths of The Hacker Playbook 2 - Practical Focus: The book is rich with real-world scenarios, making it invaluable for hands-on learners. - Structured Approach: The playbook analogy simplifies complex processes into manageable steps. - Updated Content: It reflects modern attack vectors and defensive measures. - Tool Familiarity: It familiarizes readers with industry-standard tools, many of which are open source. - Operational Security Emphasis: Recognizing that stealth is vital, the book offers tips on avoiding detection. --- Limitations and Considerations While The Hacker Playbook 2 is comprehensive, some limitations include: - Technical Depth: It provides a broad overview but may lack deep dives into highly specialized topics like advanced malware analysis or zero-day exploits. - Assumes Basic Knowledge: Readers should have foundational knowledge of networking, operating systems, and scripting. - Focus on Offensive Techniques: Defensive strategies are less emphasized, which could be valuable for defenders. --- Final Thoughts: Is It Worth It? The Hacker Playbook 2 remains a cornerstone resource in the offensive security community. Its pragmatic approach, combined with clear explanations and practical tools, makes it an excellent guide for aspiring penetration testers and security professionals seeking to refine their skills. For organizations and individuals committed to understanding attacker methodologies, this book provides a roadmap that demystifies complex techniques and offers a tested playbook for penetration testing engagements. Its focus on real-world applicability ensures that readers can translate knowledge into The Hacker Playbook 2 Practical Guide To Penetration Testing 9 effective security assessments. In conclusion, whether you're starting your journey in penetration testing or looking to sharpen your offensive toolkit, The Hacker Playbook 2 proves to be a valuable, comprehensive, and practical resource that aligns well with the current cybersecurity landscape. --- Disclaimer: Always ensure you have explicit permission before conducting any penetration testing activities. Unauthorized hacking is illegal and unethical. penetration testing, cybersecurity, ethical hacking, network security, attack techniques, vulnerability assessment, exploit development, penetration testing tools, security testing, offensive security

Penetration TestingStudy Guide to Penetration TestingFrom Hacking to Report WritingPython Penetration Testing CookbookThe Basics of Hacking and Penetration TestingWindows and Linux Penetration Testing from ScratchPenetration Testing For DummiesPenetration Testing FundamentalsHacking kompaktHands-On Web Penetration Testing with MetasploitCISO's Guide to Penetration TestingPenetration Tester werden für DummiesPenetration Testing mit MetasploitEinstieg in Ethical

HackingBuilding Virtual Pentesting Labs for Advanced Penetration TestingHands-on Penetration Testing for Web ApplicationsPenetration Testing mit mimikatzProfessional Penetration TestingPenetration Testing mit MetasploitThe Penetration Tester's Guide to Web Applications Georgia Weidman Cybellium Robert Svensson Rejah Rehim Patrick Engebretson Phil Bramwell Robert Shimonski Chuck Easttom Holger Reibold Harpreet Singh James S. Tiller Robert Shimonski Frank Neugebauer Jürgen Ebner Kevin Cardwell Richa Gupta Sebastian Brabetz Thomas Wilhelm Sebastian Brabetz Serge Borso Penetration Testing Study Guide to Penetration Testing From Hacking to Report Writing Python Penetration Testing Cookbook The Basics of Hacking and Penetration Testing Windows and Linux Penetration Testing from Scratch Penetration Testing For Dummies Penetration Testing Fundamentals Hacking kompakt Hands-On Web Penetration Testing with Metasploit CISO's Guide to Penetration Testing Penetration Tester werden für Dummies Penetration Testing mit Metasploit Einstieg in Ethical Hacking Building Virtual Pentesting Labs for Advanced Penetration Testing Hands-on Penetration Testing for Web Applications Penetration Testing mit mimikatz Professional Penetration Testing Penetration Testing mit Metasploit The Penetration Tester's Guide to Web Applications *Georgia Weidman Cybellium Robert Svensson Rejah Rehim Patrick Engebretson Phil Bramwell Robert Shimonski Chuck Easttom Holger Reibold Harpreet Singh James S. Tiller Robert Shimonski Frank Neugebauer Jürgen Ebner Kevin Cardwell Richa Gupta Sebastian Brabetz Thomas Wilhelm Sebastian Brabetz Serge Borso*

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

designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world expert insights our books provide deep actionable insights that bridge the gap between theory and practical application up to date content stay current with the latest advancements trends and best practices in it al cybersecurity business economics and science each guide is regularly updated to reflect the newest developments and challenges comprehensive coverage whether you re a beginner or an advanced learner cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise become part of a global network of learners and professionals who trust cybellium to guide their educational journey cybellium com

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

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 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

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

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

leading security expert researcher instructor and author chuck easttom ii has brought together all the essential knowledge in a single comprehensive guide that covers the entire penetration testing lifecycle easttom integrates concepts terminology challenges and theory and walks you through every step from planning to effective post test reporting he presents a start to finish sample project relying on free open source tools as well as quizzes labs and review sections throughout penetration testing fundamentals is also the only book to cover pentesting standards from nsa pci and nist

fast täglich kann man den medien berichte über hacker attacken entnehmen prominente angriffe wie der auf den des deutschen bundestags sind nur die spitze des eisbergs täglich werden in deutschland tausende unternehmen attackiert meist geht es dabei um wirtschaftsspionage it und systemadministratoren müssen heute die immer komplexer werdende infrastrukturen auf schwachstellen und sicherheitslücken überprüfen und zwar kontinuierlich das aufdecken von schwachstellen das testen von anfälligkeiten und das schließen der lücken sind heute essentielle administrative aufgaben nur so kann man sich erfolgreich vor attacken schützen wenn auch sie für die sicherheit eines netzwerks zuständig sind müssen sie dieses kontinuierlich auf verwundbarkeiten überprüfen fachleute sprechen von penetration testing ihr ziel muss es sein potenziellen hackern zuvorzukommen das vorliegende buch zeigt ihnen wie hacker arbeiten mit dem entsprechenden know how sind sie diesen immer einen schritt voraus inhaltsverzeichnis vorwort 1 einstieg in das penetration testing 1 1 die richtige hard und software 1 1 1 kali linux in betrieb nehmen 1 1 2 windows als penetration plattform 1 2 sammeln von informationen 2 schwachstellen aufdecken 2 1 security scanner im einsatz 2 2 ein erster sicherheitscheck 2 3 berichte interpretieren 2 4 scan konfiguration 2 5 administrative aufgaben 3 angriffspunkte ports 3 1 alles wichtige über nmap 3 2 mit zenmap arbeiten 3 3 scannen und auswerten 3 4

netzwerktopologien 3 5 der profileditor 3 6 erweiterte zenmap funktionen 4 schwachstellen prÜfen 4 1 das grundprinzip 4 2 erste schritte mit metasploit 4 3 aktive und passive exploits 4 4 daten sammeln 4 5 attack management mit armitage 4 6 versionswirrwarr 5 scannen von web applikationen 5 1 application security scanner 5 2 must have die burp suite 5 3 burp suite für einsteiger 5 4 der workflow mit der burp suite 5 5 das target tool in der praxis 5 6 verwundbarkeiten testen 5 7 praxisbeispiele mit der burp suite 5 7 1 brute force attacke eines login dialogs 5 7 2 injection schwachstellen aunutzen 5 7 3 mangelhafte sicherheitskonfigurationen aufdecken 5 7 4 cross site scripting attacken mit burp 6 wlan sicherheit prÜfen 6 1 unsicherheiten in wlans 6 2 wlan authentifizierung umgehen 6 2 1 versteckte wlans aufspüren 6 2 2 mac filter aushebeln 6 2 3 schlüsselauthentifizierung umgehen 6 3 verschlüsselungslücken ausnutzen 6 4 wpa sicherung aushebeln 6 5 wep und wpa pakete entschlüsseln 6 6 verbindung herstellen 7 werkzeugkasten weitere hacker tools 7 1 zugangsdaten 7 2 passwörter wlan schlüssel und mehr erlangen 7 3 rechte ausweiten 8 social engineering und informationsverknÜpfung 8 1 daten kombinieren 8 2 weitere möglichkeiten 9 dokumentation 9 1 die ideale lösung docear 9 2 erste schritte 9 3 informationen filtern 9 4 weitere besonderheiten 9 5 sicherheit und datenaustausch anhang a more info anhang b eigene testumgebung

identify exploit and test web application security with ease key featuresget up to speed with metasploit and discover how to use it for pentestingunderstand how to exploit and protect your web environment effectivelylearn how an exploit works and what causes vulnerabilitiesbook description metasploit has been a crucial security tool for many years however there are only a few modules that metasploit has made available to the public for pentesting web applications in this book you ll explore another aspect of the framework web applications which is not commonly used you ll also discover how metasploit when used with its inbuilt gui simplifies web application penetration testing the book starts by focusing on the metasploit setup along with covering the life cycle of the penetration testing process then you will explore metasploit terminology and the web gui which is available in the metasploit community edition next the book will take you through pentesting popular content management systems such as drupal wordpress and joomla which will also include studying the latest cves and understanding the root cause of vulnerability in detail later you ll gain insights into the vulnerability assessment and exploitation of technological platforms such as jboss jenkins and tomcat finally you ll learn how to fuzz web applications to find logical security vulnerabilities using third party tools by the end of this book you ll have a solid understanding of how to exploit and validate vulnerabilities by working with various tools and techniques what you will learnget up to speed with setting up and installing the metasploit frameworkgain first hand experience of the metasploit web interfaceuse metasploit for web application reconnaissanceunderstand how to

pentest various content management systemspentest platforms such as jboss tomcat and jenkinsbecome well versed with fuzzing web applicationswrite and automate penetration testing reportswho this book is for this book is for web security analysts bug bounty hunters security professionals or any stakeholder in the security sector who wants to delve into web application security testing professionals who are not experts with command line tools or kali linux and prefer metasploit s graphical user interface gui will also find this book useful no experience with metasploit is required but basic knowledge of linux and web application pentesting will be helpful

ciso s guide to penetration testing a framework to plan manage and maximize benefits details the methodologies framework and unwritten conventions penetration tests should cover to provide the most value to your organization and your customers discussing the process from both a consultative and technical perspective it provides an overview of the common tools and exploits used by attackers along with the rationale for why they are used from the first meeting to accepting the deliverables and knowing what to do with the results james tiller explains what to expect from all phases of the testing life cycle he describes how to set test expectations and how to identify a good test from a bad one he introduces the business characteristics of testing the imposed and inherent limitations and describes how to deal with those limitations the book outlines a framework for protecting confidential information and security professionals during testing it covers social engineering and explains how to tune the plethora of options to best use this investigative tool within your own environment ideal for senior security management and anyone else responsible for ensuring a sound security posture this reference depicts a wide range of possible attack scenarios it illustrates the complete cycle of attack from the hacker s perspective and presents a comprehensive framework to help you meet the objectives of penetration testing including deliverables and the final report

pentests sind für unternehmen unverzichtbar geworden denn nur wer die schwachstellen kennt kann auch dagegen vorgehen robert shimonski erklärt ihnen in diesem buch alles was sie brauchen um selbst pentests durchzuführen von den nötigen vorbereitungen über risikoanalyse und rechtliche belange bis hin zur eigentlichen durchführung und späteren auswertung ist alles dabei versetzen sie sich in hacker hinein und lernen sie wo unternehmen angreifbar sind werden sie selbst zum penetration tester

erste schritte von der einrichtung der testumgebung bis zu den linux grundlagen die wichtigsten angriffstechniken und linux

tools für das penetration testing professionelle arbeitsabläufe für security audits und penetrationstests denken wie ein angreifer dieses buch richtet sich an it sicherheitsexperten und alle die es werden wollen um die systeme von unternehmen vor cyberangriffen zu schützen müssen sie wie ein angreifer denken spüren sie sicherheitslücken in webanwendungen und netzwerken auf hacken sie passwörter und nutzen sie das schwächste glied in der sicherheitskette um in systeme einzudringen den menschen penetration testing mit kali linux richten sie eine sichere testumgebung mit kali linux ein und lernen sie die bandbreite der mitgelieferten und installierbaren hacking tools kennen openvas medusa metasploit john the ripper armitage netcat u v m vertrauenswürdig sicher und professionell lernen sie wie ein professioneller penetration test abläuft und welche richtlinien eingehalten werden müssen um ihre auftraggeber zufriedenzustellen und legal sowie ethisch zu hacken

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

learn how to build an end to end application security testing framework Ê key featuresÊÊ exciting coverage on vulnerabilities and security loopholes in modern web applications practical exercises and case scenarios on performing pentesting and identifying security breaches cutting edge offerings on implementation of tools including nmap burp suite and wireshark descriptionÊ hands on penetration testing for applications offers readers with 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 we begin with exposure to modern application vulnerabilities present in web applications you will learn and gradually practice the core concepts of penetration testing and owasp top ten vulnerabilities including injection broken authentication and access control security misconfigurations and cross site scripting xss you will then gain advanced skillset by exploring the methodology of security testing and how to work around security testing as a true security professional this book also brings cutting edge coverage on exploiting and detecting vulnerabilities such as authentication flaws session flaws access control flaws input validation flaws etc you will discover an end to end implementation of tools such as nmap burp suite and

wireshark you will then learn to practice how to execute web application intrusion testing in automated testing tools and also to analyze vulnerabilities and threats present in the source codes by the end of this book you will gain in depth knowledge of web application testing framework and strong proficiency in exploring and building high secured web applications what you will learn complete overview of concepts of web penetration testing learn to secure against owasp top 10 web vulnerabilities practice different techniques and signatures for identifying vulnerabilities in the source code of the web application discover security flaws in your web application using most popular tools like nmap and wireshark learn to respond modern automated cyber attacks with the help of expert led tips and tricks exposure to analysis of vulnerability codes security automation tools and common security flaws who this book is forÊÊ this book is for penetration testers ethical hackers and web application developers people who are new to security testing will also find this book useful basic knowledge of html javascript would be an added advantage table of contents 1 why application security 2 modern application vulnerabilities 3 pentesting methodology 4 testing authentication 5 testing session management 6 testing secure channels 7 testing secure access control 8 sensitive data and information disclosure 9 testing secure data validation 10 attacking application users other techniques 11 testing configuration and deployment 12 automating custom attacks 13 pentesting tools 14 static code analysis 15 mitigations and core defense mechanisms

penetration tests mit mimikatz von pass the hash über kerberoasting bis hin zu golden tickets funktionsweise und schwachstellen der windows local security authority lsa und des kerberos protokolls alle angriffe leicht verständlich und schritt für schritt erklärt mimikatz ist ein extrem leistungsstarkes tool für angriffe auf das active directory hacker können damit auf klartextpasswörter passwort hashes sowie kerberos tickets zugreifen die dadurch erworbenen rechte in fremden systemen ausweiten und so die kontrolle über ganze firmennetzwerke übernehmen aus diesem grund ist es wichtig auf angriffe mit mimikatz vorbereitet zu sein damit sie die techniken der angreifer verstehen und erkennen können zeigt ihnen it security spezialist sebastian brabetz in diesem buch wie sie penetration tests mit mimikatz in einer sicheren testumgebung durchführen der autor beschreibt alle angriffe schritt für schritt und erläutert ihre funktionsweisen leicht verständlich dabei setzt er nur grundlegende it security kenntnisse voraus sie lernen insbesondere folgende angriffe kennen klartextpasswörter aus dem ram extrahieren authentifizierung ohne klartextpasswort mittels pass the hash ausnutzen von kerberos mittels overpass the hash pass the key und pass the ticket dumpen von active directory credentials aus domänencontrollern erstellen von silver tickets und golden tickets cracken der passwort hashes von service accounts mittels kerberoasting auslesen und cracken von domain cached

credentials darüber hinaus erfahren sie wie sie die ausführung von mimikatz sowie die spuren von mimikatz angriffen erkennen so sind sie bestens gerüstet um ihre windows domäne mit mimikatz auf schwachstellen zu testen und entsprechenden angriffen vorzubeugen

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

penetrationstests mit metasploit als effektiver teil der it sicherheitsstrategie der komplette workflow portscanning mit nmap hacking mit metasploit schwachstellen scannen mit nessus die techniken der angreifer verstehen und geeignete gegenmaßnahmen ergreifen metasploit ist ein mächtiges werkzeug mit dem auch unerfahrene administratoren gängige angriffsmethoden verstehen und nachstellen können um sicherheitslücken im system aufzuspüren der autor erläutert in diesem buch gezielt alle funktionen von metasploit die relevant für verteidiger sogenannte blue teams sind und zeigt wie sie im alltag der it security wirkungsvoll eingesetzt werden können als grundlage erhalten sie das basiswissen zu exploits und penetration testing und setzen eine kali linux umgebung auf mit dem kostenlos verfügbaren portscanner nmap scannen sie systeme auf angreifbare dienste ab schritt für schritt lernen sie die durchführung eines typischen hacks mit metasploit kennen und erfahren wie sie mit einfachen techniken in kürzester zeit höchste berechtigungsstufen in den zielumgebungen erlangen schließlich zeigt der autor wie sie metasploit von der meldung einer sicherheitsbedrohung über das patchen bis hin zur validierung in der

verteidigung von it systemen und netzwerken einsetzen dabei gibt er konkrete tipps zur erhöhung ihres it sicherheitslevels zusätzlich lernen sie schwachstellen mit dem schwachstellenscanner nessus zu finden auszuwerten und auszugeben so wird metasploit ein effizienter bestandteil ihrer it sicherheitsstrategie sie können schwachstellen in ihrem system finden und angriffstechniken unter sicheren rahmenbedingungen selbst anwenden sowie fundierte entscheidungen für gegenmaßnahmen treffen und prüfen ob diese erfolgreich sind

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

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