Second Edition

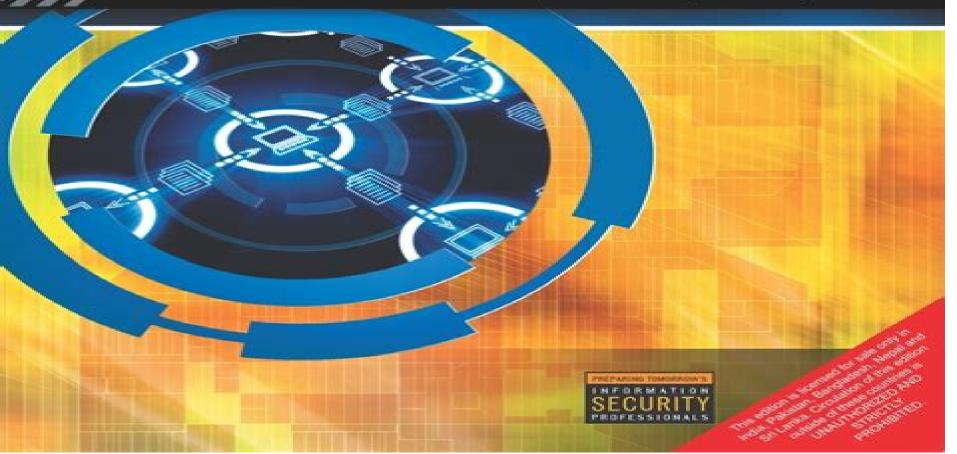# COMPUTER SECURITY AND PENETRATION TESTING

Alfred Basta, Nadine Basta, and Mary Brown

Computer Security And Penetration Testing

Juned Ahmed Ansari

Computer Security And Penetration Testing:

   Professional Penetration Testing Thomas Wilhelm,2025-01-21 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   **Penetration Testing Fundamentals** William Easttom II,2018-03-06 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   <u>From Hacking to Report Writing</u> Robert Svensson,2016-12-12 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   **Penetration Testing Basics** Ric Messier,2016-07-22 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 Web 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 Testing: A Survival Guide** Wolf Halton,Bo Weaver,Juned Ahmed Ansari,Srinivasa Rao Kotipalli,Mohammed A. Imran,2017-01-18 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 Web 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 *Soil Science and Management* Plaster,2013 **Penetration Testing** Georgia Weidman,2014-06-14 Penetration testers simulate cyber attacks to find security weaknesses in networks operating systems and applications Information security experts worldwide use penetration techniques to evaluate enterprise defenses In Penetration Testing security expert researcher and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs Using a virtual machine based lab that includes Kali Linux and vulnerable operating systems you ll run through a series of practical lessons with tools like Wireshark Nmap and Burp Suite As you follow along with the labs and launch attacks you ll experience the key stages of an actual assessment including information gathering finding exploitable

vulnerabilities gaining access to systems post exploitation and more Learn how to Crack passwords and wireless network keys with brute forcing and wordlists Test web applications for vulnerabilities Use the Metasploit Framework to launch exploits and write your own Metasploit modules Automate social engineering attacks Bypass antivirus software Turn access to one machine into total control of the enterprise in the post exploitation phase You ll even explore writing your own exploits Then it s on to mobile hacking Weidman s particular area of research with her tool the Smartphone Pentest Framework With its collection of hands on lessons that cover key tools and strategies Penetration Testing is the introduction that every aspiring hacker needs   The Penetration Tester's Guide to Web Applications Serge Borso,2019-06-30 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 Web 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   **The Basics of Hacking and Penetration Testing** Patrick Engebretson,2013-06-24 The Basics of Hacking and Penetration Testing Second Edition serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end The book teaches students how to properly utilize and interpret the results of the modern day hacking tools required to complete a penetration test It provides a simple and clean explanation of how to effectively utilize these tools along with a four step methodology for conducting a penetration test or hack thus equipping students with the know how required to jump start their careers and gain a better understanding of offensive security Each chapter contains hands on examples and exercises that are designed to teach learners how to interpret results and utilize those results in later phases Tool coverage includes Backtrack Linux Google reconnaissance MetaGooFil dig Nmap Nessus Metasploit Fast Track Autopwn Netcat and Hacker Defender rootkit This is complemented by PowerPoint slides for use in class This book is an ideal resource for security consultants beginning InfoSec professionals and students 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 Kali Linux distribution and focuses on the seminal tools required to complete a penetration test   **Python: Penetration**

Testing for Developers Christopher Duffy,Mohit,,Cameron Buchanan,Terry Ip,Andrew Mabbitt,Benjamin May,Dave Mound,2016-10-21 Unleash the power of Python scripting to execute effective and efficient penetration tests About This Book Sharpen your pentesting skills with Python Develop your fluency with Python to write sharper scripts for rigorous security testing Get stuck into some of the most powerful tools in the security world Who This Book Is For If you are a Python programmer or a security researcher who has basic knowledge of Python programming and wants to learn about penetration testing with the help of Python this course is ideal for you Even if you are new to the field of ethical hacking this course can help you find the vulnerabilities in your system so that you are ready to tackle any kind of attack or intrusion What You Will Learn Familiarize yourself with the generation of Metasploit resource files and use the Metasploit Remote Procedure Call to automate exploit generation and execution Exploit the Remote File Inclusion to gain administrative access to systems with Python and other scripting languages Crack an organization s Internet perimeter and chain exploits to gain deeper access to an organization s resources Explore wireless traffic with the help of various programs and perform wireless attacks with Python programs Gather passive information from a website using automated scripts and perform XSS SQL injection and parameter tampering attacks Develop complicated header based attacks through Python In Detail Cybercriminals are always one step ahead when it comes to tools and techniques This means you need to use the same tools and adopt the same mindset to properly secure your software This course shows you how to do just that demonstrating how effective Python can be for powerful pentesting that keeps your software safe Comprising of three key modules follow each one to push your Python and security skills to the next level In the first module we ll show you how to get to grips with the fundamentals This means you ll quickly find out how to tackle some of the common challenges facing pentesters using custom Python tools designed specifically for your needs You ll also learn what tools to use and when giving you complete confidence when deploying your pentester tools to combat any potential threat In the next module you ll begin hacking into the application layer Covering everything from parameter tampering DDoS XXS and SQL injection it will build on the knowledge and skills you learned in the first module to make you an even more fluent security expert Finally in the third module you ll find more than 60 Python pentesting recipes We think this will soon become your trusted resource for any pentesting situation This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning Penetration Testing with Python by Christopher Duffy Python Penetration Testing Essentials by Mohit Python Web Penetration Testing Cookbook by Cameron Buchanan Terry Ip Andrew Mabbitt Benjamin May and Dave Mound Style and approach This course provides a quick access to powerful modern tools and customizable scripts to kick start the creation of your own Python web penetration testing toolbox *PowerShell for Penetration Testing* Dr. Andrew Blyth,2024-05-24 A practical guide to vulnerability assessment and mitigation with PowerShell Key Features Leverage PowerShell s unique capabilities at every stage of the Cyber Kill Chain maximizing your effectiveness Perform

network enumeration techniques and exploit weaknesses with PowerShell s built in and custom tools Learn how to conduct penetration testing on Microsoft Azure and AWS environments Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionPowerShell for Penetration Testing is a comprehensive guide designed to equip you with the essential skills you need for conducting effective penetration tests using PowerShell You ll start by laying a solid foundation by familiarizing yourself with the core concepts of penetration testing and PowerShell scripting In this part you ll get up to speed with the fundamental scripting principles and their applications across various platforms You ll then explore network enumeration port scanning exploitation of web services databases and more using PowerShell tools Hands on exercises throughout the book will solidify your understanding of concepts and techniques Extending the scope to cloud computing environments particularly MS Azure and AWS this book will guide you through conducting penetration tests in cloud settings covering governance reconnaissance and networking intricacies In the final part post exploitation techniques including command and control structures and privilege escalation using PowerShell will be explored This section encompasses post exploitation activities on both Microsoft Windows and Linux systems By the end of this book you ll have covered concise explanations real world examples and exercises that will help you seamlessly perform penetration testing techniques using PowerShell What you will learn Get up to speed with basic and intermediate scripting techniques in PowerShell Automate penetration tasks build custom scripts and conquer multiple platforms Explore techniques to identify and exploit vulnerabilities in network services using PowerShell Access and manipulate web based applications and services with PowerShell Find out how to leverage PowerShell for Active Directory and LDAP enumeration and exploitation Conduct effective pentests on cloud environments using PowerShell s cloud modules Who this book is for This book is for aspiring and intermediate pentesters as well as other cybersecurity professionals looking to advance their knowledge Anyone interested in PowerShell scripting for penetration testing will also find this book helpful A basic understanding of IT systems and some programming experience will help you get the most out of this book   Kali Linux 2 – Assuring Security by Penetration Testing Gerard Johansen,Lee Allen,Tedi Heriyanto,Shakeel Ali,2016-09-22 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 **Unauthorised Access** Wil Allsopp,2009-09-21 The first guide to planning and performing a physical penetration test on your computer s security Most IT security teams concentrate on keeping networks and systems safe from attacks from the outside but what if your attacker was on the inside While nearly all IT teams perform a variety of network and application penetration testing procedures an audit and test of the physical location has not been as prevalent IT teams are now increasingly requesting physical penetration tests but there is little available in terms of training The goal of the test is to demonstrate any deficiencies in operating procedures concerning physical security Featuring a Foreword written by world renowned hacker Kevin D Mitnick and lead author of The Art of Intrusion and The Art of Deception this book is the first guide to planning and performing a physical penetration test Inside IT security expert Wil Allsopp guides you through the entire process from gathering intelligence getting inside dealing with threats staying hidden often in plain sight and getting access to networks and data Teaches IT security teams how to break into their own facility in order to defend against such attacks which is often overlooked by IT security teams but is of critical importance Deals with intelligence gathering such as getting access building blueprints and satellite imagery hacking security cameras planting bugs and eavesdropping on security channels Includes safeguards for consultants paid to probe facilities unbeknown to staff Covers preparing the report and presenting it to management In order to defend data you need to think like a thief let Unauthorised Access show you how to get inside **Coding for Penetration Testers** Jason Andress,Ryan Linn,2016-09-03 Coding for Penetration Testers Building Better Tools Second Edition provides readers with an understanding of the scripting languages that are commonly used when developing tools for penetration testing also guiding users through specific examples of custom tool development and the situations where such tools might be used While developing a better understanding of each language the book presents real world scenarios and tool development that can be incorporated into a tester s toolkit This completely updated edition focuses on an expanded discussion on the use of Powershell and includes practical updates to all tools and coverage Discusses the use of various scripting languages in penetration testing Presents step by step instructions on how to build customized

penetration testing tools using Perl Ruby Python and other languages Provides a primer on scripting including but not limited to web scripting scanner scripting and exploitation scripting Includes all new coverage of Powershell   **Windows and Linux Penetration Testing from Scratch** Phil Bramwell,2022-08-30 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

   Penetration Testing Essentials Sean-Philip Oriyano,2016-11-15 Your pen testing career begins here with a solid foundation in essential skills and concepts Penetration Testing Essentials provides a starting place for professionals and beginners looking to learn more about penetration testing for cybersecurity Certification eligibility requires work experience but before you get that experience you need a basic understanding of the technical and behavioral ways attackers compromise security and the tools and techniques you ll use to discover the weak spots before others do You ll learn information gathering techniques scanning and enumeration how to target wireless networks and much more as you build your pen tester skill set You ll learn how to break in look around get out and cover your tracks all without ever being noticed

Pen testers are tremendously important to data security so they need to be sharp and well versed in technique but they also need to work smarter than the average hacker This book set you on the right path with expert instruction from a veteran IT security expert with multiple security certifications IT Security certifications have stringent requirements and demand a complex body of knowledge This book lays the groundwork for any IT professional hoping to move into a cybersecurity career by developing a robust pen tester skill set Learn the fundamentals of security and cryptography Master breaking entering and maintaining access to a system Escape and evade detection while covering your tracks Build your pen testing lab and the essential toolbox Start developing the tools and mindset you need to become experienced in pen testing today **Hacking with Kali** James Broad,Andrew Bindner,2013-12-05 Hacking with Kali introduces you the most current distribution of the de facto standard tool for Linux pen testing Starting with use of the Kali live CD and progressing through installation on hard drives thumb drives and SD cards author James Broad walks you through creating a custom version of the Kali live distribution You ll learn how to configure networking components storage devices and system services such as DHCP and web services Once you re familiar with the basic components of the software you ll learn how to use Kali through the phases of the penetration testing lifecycle one major tool from each phase is explained The book culminates with a chapter on reporting that will provide examples of documents used prior to during and after the pen test This guide will benefit information security professionals of all levels hackers systems administrators network administrators and beginning and intermediate professional pen testers as well as students majoring in information security Provides detailed explanations of the complete penetration testing lifecycle Complete linkage of the Kali information resources and distribution downloads Hands on exercises reinforce topics Web Penetration Testing with Kali Linux - Second Edition Juned Ahmed Ansari,2015-11-26 Build your defense against web attacks with Kali Linux 2 0About This Book Gain a deep understanding of the flaws in web applications and exploit them in a practical manner Get hands on web application hacking experience with a range of tools in Kali Linux 2 0 Develop the practical skills required to master multiple tools in the Kali Linux 2 0 toolkitWho This Book Is ForIf you are already working as a network penetration tester and want to expand your knowledge of web application hacking then this book tailored for you Those who are interested in learning more about the Kali Sana tools that are used to test web applications will find this book a thoroughly useful and interesting guide What You Will Learn Set up your lab with Kali Linux 2 0 Identify the difference between hacking a web application and network hacking Understand the different techniques used to identify the flavor of web applications 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 Find out about the mitigation techniques used to negate the effects of the Injection and Blind SQL attacksIn DetailKali Linux 2 0 is the new generation of the industry leading BackTrack Linux penetration testing and security auditing Linux distribution It contains several hundred tools aimed at various information security tasks such as penetration testing

forensics and reverse engineering At the beginning of the book you will be introduced to the concepts of hacking and penetration testing and will get to know about the tools used in Kali Linux 2 0 that relate to web application hacking Then you will gain a deep understanding of SQL and command injection flaws and ways to exploit the flaws Moving on you will get to know more about scripting and input validation flaws AJAX and the security issues related to AJAX At the end of the book you will use an automated technique called fuzzing to be able to identify flaws in a web application Finally you will understand the web application vulnerabilities and the ways in which they can be exploited using the tools in Kali Linux 2 0 Style and approachThis step by step guide covers each topic with detailed practical examples Every concept is explained with the help of illustrations using the tools available in Kali Linux 2 0   Learning Penetration Testing with Python Christopher Duffy,2015-09-30 Utilize Python scripting to execute effective and efficient penetration tests About This Book Understand how and where Python scripts meet the need for penetration testing Familiarise yourself with the process of highlighting a specific methodology to exploit an environment to fetch critical data Develop your Python and penetration testing skills with real world examples Who This Book Is For If you are a security professional or researcher with knowledge of different operating systems and a conceptual idea of penetration testing and you would like to grow your knowledge in Python then this book is ideal for you What You Will Learn Familiarise yourself with the generation of Metasploit resource files Use the Metasploit Remote Procedure Call MSFRPC to automate exploit generation and execution Use Python s Scapy network socket office Nmap libraries and custom modules Parse Microsoft Office spreadsheets and eXtensible Markup Language XML data files Write buffer overflows and reverse Metasploit modules to expand capabilities Exploit Remote File Inclusion RFI to gain administrative access to systems with Python and other scripting languages Crack an organization s Internet perimeter Chain exploits to gain deeper access to an organization s resources Interact with web services with Python In Detail Python is a powerful new age scripting platform that allows you to build exploits evaluate services automate and link solutions with ease Python is a multi paradigm programming language well suited to both object oriented application development as well as functional design patterns Because of the power and flexibility offered by it Python has become one of the most popular languages used for penetration testing This book highlights how you can evaluate an organization methodically and realistically Specific tradecraft and techniques are covered that show you exactly when and where industry tools can and should be used and when Python fits a need that proprietary and open source solutions do not Initial methodology and Python fundamentals are established and then built on Specific examples are created with vulnerable system images which are available to the community to test scripts techniques and exploits This book walks you through real world penetration testing challenges and how Python can help From start to finish the book takes you through how to create Python scripts that meet relative needs that can be adapted to particular situations As chapters progress the script examples explain new concepts to enhance your foundational knowledge culminating with you being able to build multi threaded security tools link security

tools together automate reports create custom exploits and expand Metasploit modules Style and approach This book is a practical guide that will help you become better penetration testers and or Python security tool developers Each chapter builds on concepts and tradecraft using detailed examples in test environments that you can simulate **Kali Linux 2: Windows Penetration Testing** Wolf Halton,Bo Weaver,2016-06-28 Kali Linux a complete pentesting toolkit facilitating smooth backtracking for working hackers About This Book Conduct network testing surveillance pen testing and forensics on MS Windows using Kali Linux Footprint monitor and audit your network and investigate any ongoing infestations Customize Kali Linux with this professional guide so it becomes your pen testing toolkit Who This Book Is For If you are a working ethical hacker who is looking to expand the offensive skillset with a thorough understanding of Kali Linux then this is the book for you Prior knowledge about Linux operating systems and the BASH terminal emulator along with Windows desktop and command line would be highly beneficial What You Will Learn Set up Kali Linux for pen testing Map and enumerate your Windows network Exploit several common Windows network vulnerabilities Attack and defeat password schemes on Windows Debug and reverse engineer Windows programs Recover lost files investigate successful hacks and discover hidden data in innocent looking files Catch and hold admin rights on the network and maintain backdoors on the network after your initial testing is done In Detail Microsoft Windows is one of the two most common OS and managing its security has spawned the discipline of IT security Kali Linux is the premier platform for testing and maintaining Windows security Kali is built on the Debian distribution of Linux and shares the legendary stability of that OS This lets you focus on using the network penetration password cracking forensics tools and not the OS This book has the most advanced tools and techniques to reproduce the methods used by sophisticated hackers to make you an expert in Kali Linux penetration testing First you are 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 to be able to exploit a system remotely Next you will prove that the vulnerabilities you have found are real and exploitable You will learn to use tools in seven categories of exploitation tools Further you perform web access exploits using tools like websploit and more Security is only as strong as the weakest link in the chain Passwords are often that weak link Thus you learn about password attacks that can be used in concert with other approaches to break into and own a network Moreover you come to terms with network sniffing which helps you understand which users are using services you can exploit and IP spoofing which can be used to poison a system s DNS cache Once you gain access to a machine or network maintaining access is important Thus you not only learn penetrating in the machine you also learn Windows privilege s escalations With easy to follow step by step instructions and support images you will be able to quickly pen test your system and network Style and approach This book is a hands on guide for Kali Linux pen testing This book will provide all the practical knowledge needed to test your network s security using a proven hacker s methodology The book uses easy to understand yet professional language for explaining concepts

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Computer Security And Penetration Testing Introduction

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