

# SEC760: Advanced Exploit Development for Penetration Testers



# Sans Sec760 Advanced Exploit Development For Penetration Testers

**Allen Harper, Ryan Linn, Stephen  
Sims, Michael Baucom, Huascar  
Tejeda, Daniel Fernandez, Moses Frost**

## **Sans Sec760 Advanced Exploit Development For Penetration Testers:**

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

**Gray Hat Hacking: The Ethical Hacker's Handbook, Sixth Edition** Allen Harper, Ryan Linn, Stephen Sims, Michael Baucom, Huascar Tejada, Daniel Fernandez, Moses Frost, 2022-03-11 Up to date strategies for thwarting the latest most insidious network attacks This fully updated industry standard security resource shows step by step how to fortify computer networks by learning and applying effective ethical hacking techniques Based on curricula developed by the authors at major security conferences and colleges the book features actionable planning and analysis methods as well as practical steps for identifying and combating both targeted and opportunistic attacks Gray Hat Hacking The Ethical Hacker s Handbook Sixth Edition clearly explains the enemy s devious weapons skills and tactics and offers field tested remedies case studies and testing labs You will get complete coverage of Internet of Things mobile and Cloud security along with penetration testing malware analysis and reverse engineering techniques State of the art malware ransomware and system exploits are thoroughly explained Fully

revised content includes 7 new chapters covering the latest threats Includes proof of concept code stored on the GitHub repository Authors train attendees at major security conferences including RSA Black Hat Defcon and Besides

**Metasploit Toolkit for Penetration Testing, Exploit Development, and Vulnerability Research** David Maynor, 2011-04-18 Metasploit Toolkit for Penetration Testing Exploit Development and Vulnerability Research is the first book available for the Metasploit Framework MSF which is the attack platform of choice for one of the fastest growing careers in IT security Penetration Testing The book will provide professional penetration testers and security researchers with a fully integrated suite of tools for discovering running and testing exploit code This book discusses how to use the Metasploit Framework MSF as an exploitation platform The book begins with a detailed discussion of the three MSF interfaces msfweb msfconsole and msfcli This chapter demonstrates all of the features offered by the MSF as an exploitation platform With a solid understanding of MSF s capabilities the book then details techniques for dramatically reducing the amount of time required for developing functional exploits By working through a real world vulnerabilities against popular closed source applications the reader will learn how to use the tools and MSF to quickly build reliable attacks as standalone exploits The section will also explain how to integrate an exploit directly into the Metasploit Framework by providing a line by line analysis of an integrated exploit module Details as to how the Metasploit engine drives the behind the scenes exploitation process will be covered and along the way the reader will come to understand the advantages of exploitation frameworks The final section of the book examines the Meterpreter payload system and teaches readers to develop completely new extensions that will integrate fluidly with the Metasploit Framework A November 2004 survey conducted by CSO Magazine stated that 42% of chief security officers considered penetration testing to be a security priority for their organizations The Metasploit Framework is the most popular open source exploit platform and there are no competing books

*Improving your Penetration Testing Skills* Gilberto Najera-Gutierrez, Juned Ahmed Ansari, Daniel Teixeira, Abhinav Singh, 2019-07-18 Evade antiviruses and bypass firewalls with the most widely used penetration testing frameworks Key Features Gain insights into the latest antivirus evasion techniques Set up a complete pentesting environment using Metasploit and virtual machines Discover a variety of tools and techniques that can be used with Kali Linux Book Description Penetration testing or ethical hacking is a legal and foolproof way to identify vulnerabilities in your system With thorough penetration testing you can secure your system against the majority of threats This Learning Path starts with an in depth explanation of what hacking and penetration testing is You ll gain a deep understanding of classical SQL and command injection flaws and discover ways to exploit these flaws to secure your system You ll also learn how to create and customize payloads to evade antivirus software and bypass an organization s defenses Whether it s exploiting server vulnerabilities and attacking client systems or compromising mobile phones and installing backdoors this Learning Path will guide you through all this and more to improve your defense against online attacks By the end of this Learning Path you ll have the knowledge and skills you

need to invade a system and identify all its vulnerabilities This Learning Path includes content from the following Packt products Web Penetration Testing with Kali Linux Third Edition by Juned Ahmed Ansari and Gilberto Najera GutierrezMetasploit Penetration Testing Cookbook Third Edition by Abhinav Singh Monika Agarwal et alWhat you will learnBuild and analyze Metasploit modules in RubyIntegrate Metasploit with other penetration testing toolsUse server side attacks to detect vulnerabilities in web servers and their applicationsExplore automated attacks such as fuzzing web applicationsIdentify the difference between hacking a web application and network hackingDeploy Metasploit with the Penetration Testing Execution Standard PTES Use MSFvenom to generate payloads and backdoor files and create shellcodeWho this book is for This Learning Path is designed for security professionals web programmers and pentesters who want to learn vulnerability exploitation and make the most of the Metasploit framework Some understanding of penetration testing and Metasploit is required but basic system administration skills and the ability to read code are a must

**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 *Hands-On Penetration Testing with Python* Furqan Khan,2019-01-31 Implement defensive techniques in your ecosystem successfully with Python Key FeaturesIdentify and expose vulnerabilities in your infrastructure with PythonLearn custom exploit development Make robust and powerful cybersecurity tools with PythonBook Description With the current technological and infrastructural shift penetration testing is no longer a process oriented activity Modern day penetration testing demands lots of automation and innovation the only language that dominates all its peers is Python Given the huge number of tools written in Python and its popularity in the penetration testing space this language has always been the first choice for penetration testers Hands On Penetration Testing with Python walks you through advanced Python programming constructs Once you are familiar with the

core concepts you'll explore the advanced uses of Python in the domain of penetration testing and optimization. You'll then move on to understanding how Python data science and the cybersecurity ecosystem communicate with one another. In the concluding chapters you'll study exploit development, reverse engineering, and cybersecurity use cases that can be automated with Python. By the end of this book you'll have acquired adequate skills to leverage Python as a helpful tool to pentest and secure infrastructure while also creating your own custom exploits. What you will learn: Get to grips with Custom vulnerability scanner development. Familiarize yourself with web application scanning automation and exploit development. Walk through day to day cybersecurity scenarios that can be automated with Python. Discover enterprise or organization specific use cases and threat hunting automation. Understand reverse engineering, fuzzing, buffer overflows, key logger development, and exploit development for buffer overflows. Understand web scraping in Python and use it for processing web responses. Explore Security Operations Centre (SOC) use cases. Get to understand Data Science. Python and cybersecurity all under one hood. Who this book is for: If you are a security consultant, developer, or a cyber security enthusiast with little or no knowledge of Python and want in depth insight into how the pen testing ecosystem and python combine to create offensive tools, exploits, automate cyber security use cases, and much more, then this book is for you. Hands On Penetration Testing with Python guides you through the advanced uses of Python for cybersecurity and pen testing, helping you to better understand security loopholes within your infrastructure.

**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.

**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 Features: Map your client's attack surface with Kali Linux. Discover the craft of shellcode injection and managing multiple compromises in the environment. Understand both the attacker and the defender mindset. Book 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 learn Get to know advanced pen testing techniques with Kali Linux Gain an understanding of Kali Linux tools and methods from behind the scenes Get to grips with the exploitation of Windows and Linux clients and servers Understand advanced Windows concepts and protection and bypass them with Kali and living off the land methods Get the hang of sophisticated attack frameworks such as Metasploit and Empire Become adept in generating and analyzing shellcode Build and tweak attack scripts and modules Who 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

### **Advanced Penetration Testing for Highly-Secured Environments** Lee

Allen, Kevin Cardwell, 2016-03-29 Employ the most advanced pentesting techniques and tools to build highly secured systems and environments About This Book Learn how to build your own pentesting lab environment to practice advanced techniques Customize your own scripts and learn methods to exploit 32 bit and 64 bit programs Explore a vast variety of stealth techniques to bypass a number of protections when penetration testing Who This Book Is For This book is for anyone who wants to improve their skills in penetration testing As it follows a step by step approach anyone from a novice to an experienced security tester can learn effective techniques to deal with highly secured environments Whether you are brand new or a seasoned expert this book will provide you with the skills you need to successfully create customize and plan an advanced penetration test What You Will Learn A step by step methodology to identify and penetrate secured environments Get to know the process to test network services across enterprise architecture when defences are in place Grasp different web application testing methods and how to identify web application protections that are deployed Understand a variety of concepts to exploit software Gain proven post exploitation techniques to exfiltrate data from the target Get to grips with various stealth techniques to remain undetected and defeat the latest defences Be the first to find out the latest methods to bypass firewalls Follow proven approaches to record and save the data from tests for analysis In Detail The defences continue to improve and become more and more common but this book will provide you with a number of proven techniques

to defeat the latest defences on the networks The methods and techniques contained will provide you with a powerful arsenal of best practices to increase your penetration testing successes The processes and methodology will provide you techniques that will enable you to be successful and the step by step instructions of information gathering and intelligence will allow you to gather the required information on the targets you are testing The exploitation and post exploitation sections will supply you with the tools you would need to go as far as the scope of work will allow you The challenges at the end of each chapter are designed to challenge you and provide real world situations that will hone and perfect your penetration testing skills You will start with a review of several well respected penetration testing methodologies and following this you will learn a step by step methodology of professional security testing including stealth methods of evasion and obfuscation to perform your tests and not be detected The final challenge will allow you to create your own complex layered architecture with defences and protections in place and provide the ultimate testing range for you to practice the methods shown throughout the book The challenge is as close to an actual penetration test assignment as you can get Style and approach The book follows the standard penetration testing stages from start to finish with step by step examples The book thoroughly covers penetration test expectations proper scoping and planning as well as enumeration and foot printing

*Penetration Testing with Shellcode* Hamza Megahed, 2018-02-14 Master Shellcode to leverage the buffer overflow concept Key Features Understand how systems can be bypassed both at the operating system and network level with shellcode assembly and Metasploit Learn to write and modify 64 bit shellcode along with kernel level shellcode concepts A step by step guide that will take you from low level security skills to covering loops with shellcode Book Description Security has always been a major concern for your application your system or your environment This book s main goal is to build your skills for low level security exploits finding vulnerabilities and covering loopholes with shellcode assembly and Metasploit This book will teach you topics ranging from memory management and assembly to compiling and extracting shellcode and using syscalls and dynamically locating functions in memory This book also covers techniques to compile 64 bit shellcode for Linux and Windows along with Metasploit shellcode tools Lastly this book will also show you to how to write your own exploits with intermediate techniques using real world scenarios By the end of this book you will have become an expert in shellcode and will understand how systems are compromised both at the operating system and network level What you will learn Create an isolated lab to test and inject shellcodes Windows and Linux Understand both Windows and Linux behavior Learn the assembly programming language Create shellcode using assembly and Metasploit Detect buffer overflows Debug and reverse engineer using tools such as GDB edb and Immunity Windows and Linux Exploit development and shellcodes injections Windows Linux Prevent and protect against buffer overflows and heap corruption Who this book is for This book is intended to be read by penetration testers malware analysts security researchers forensic practitioners exploit developers C language programmers software testers and students in the security field Readers should have a basic understanding of OS internals Windows and Linux



Some knowledge of the C programming language is essential and a familiarity with the Python language would be helpful

**The Basics of Hacking and Penetration Testing** Patrick Engebretson, 2011-07-21 The Basics of Hacking and Penetration Testing serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end This book makes ethical hacking and penetration testing easy no prior hacking experience is required It shows how to properly utilize and interpret the results of the modern day hacking tools required to complete a penetration test With a simple and clean explanation of how to effectively utilize these tools as well as the introduction to a four step methodology for conducting a penetration test or hack the book provides students with the know how required to jump start their careers and gain a better understanding of offensive security The book is organized into 7 chapters that cover hacking tools such as Backtrack Linux Google reconnaissance MetaGooFil dig Nmap Nessus Metasploit Fast Track Autopwn Netcat and Hacker Defender rootkit Each chapter contains hands on examples and exercises that are designed to teach learners how to interpret results and utilize those results in later phases PowerPoint slides are available for use in class This book is an ideal reference for security consultants beginning InfoSec professionals and students Named a 2011 Best Hacking and Pen Testing Book by InfoSec Reviews Each chapter contains hands on examples and exercises that are designed to teach you how to interpret the results and utilize those results in later phases Written by an author who works in the field as a Penetration Tester and who teaches Offensive Security Penetration Testing and Ethical Hacking and Exploitation classes at Dakota State University Utilizes the Backtrack Linux distribution and focuses on the seminal tools required to complete a penetration test

[Improving Your Penetration Testing Skills](#) Gilberto Najera-Gutierrez, Juned Ahmed Ansari, Daniel Teixeira, 2019-06-18

**Mastering Metasploit**, Nipun Jaswal, 2018-05-28 Discover the next level of network defense with the Metasploit framework Key Features Gain the skills to carry out penetration testing in complex and highly secured environments Become a master using the Metasploit framework develop exploits and generate modules for a variety of real world scenarios Get this completely updated edition with new useful methods and techniques to make your network robust and resilient Book Description We start by reminding you about the basic functionalities of Metasploit and its use in the most traditional ways You ll get to know about the basics of programming Metasploit modules as a refresher and then dive into carrying out exploitation as well building and porting exploits of various kinds in Metasploit In the next section you ll develop the ability to perform testing on various services such as databases Cloud environment IoT mobile tablets and similar more services After this training we jump into real world sophisticated scenarios where performing penetration tests are a challenge With real life case studies we take you on a journey through client side attacks using Metasploit and various scripts built on the Metasploit framework By the end of the book you will be trained specifically on time saving techniques using Metasploit What you will learn Develop advanced and sophisticated auxiliary modules Port exploits from PERL Python and many more programming languages Test services such as databases SCADA and many more Attack the client side with

highly advanced techniques Test mobile and tablet devices with Metasploit Bypass modern protections such as an AntiVirus and IDS with Metasploit Simulate attacks on web servers and systems with Armitage GUI Script attacks in Armitage using CORTANA scripting Who this book is for This book is a hands on guide to penetration testing using Metasploit and covers its complete development It shows a number of techniques and methodologies that will help you master the Metasploit framework and explore approaches to carrying out advanced penetration testing in highly secured environments

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

**Building Virtual Pentesting Labs for Advanced Penetration Testing** Kevin Cardwell, 2016-08-30 Learn how to build complex virtual architectures that allow you to perform virtually any required testing methodology and perfect it About This Book Explore and build intricate architectures that allow you to emulate an enterprise network Test and enhance your security skills against complex and hardened virtual architecture Learn methods to bypass common enterprise defenses and leverage them to test the most secure environments Who This Book Is For While the book targets advanced penetration testing the process is systematic and as such will provide even beginners with a solid methodology and approach to testing You are expected to have network and security knowledge The book is intended for anyone who wants to build and enhance their existing professional security and penetration testing methods and skills What You Will Learn Learning proven security testing and penetration testing techniques Building multi layered complex architectures to test the latest network designs Applying a professional testing methodology Determining whether there are filters between you and the target and how to penetrate them Deploying and finding weaknesses in common firewall architectures Learning advanced techniques to deploy against hardened environments Learning methods to circumvent endpoint protection controls In Detail Security flaws and new hacking techniques emerge overnight security professionals need to make sure they always have a way to keep With this practical guide learn how to build your own virtual pentesting lab environments to practice and develop your security skills Create challenging environments to test your abilities and overcome them with proven processes and methodologies used by global penetration testing teams Get to grips with the techniques needed to build complete virtual machines perfect for pentest training Construct and attack layered architectures and plan specific attacks based on the platforms you re going up against Find new vulnerabilities for different kinds of systems and networks and what these mean for your clients Driven by a proven penetration testing methodology that has trained thousands of testers Building Virtual Labs for Advanced Penetration Testing Second Edition will prepare you for participation in professional security teams Style and approach The book is written in an easy to follow format that provides a step by step process centric approach Additionally there are numerous hands on examples and additional references for readers who might want to learn even more The process developed throughout the book has been used to train and build teams all around the world as professional security and penetration testers

**Hands-On Penetration Testing on**

**Windows** Phil Bramwell, 2018-07-30 Master the art of identifying vulnerabilities within the Windows OS and develop the desired solutions for it using Kali Linux Key Features Identify the vulnerabilities in your system using Kali Linux 2018 02 Discover the art of exploiting Windows kernel drivers Get to know several bypassing techniques to gain control of your Windows environment Book Description Windows has always been the go to platform for users around the globe to perform administration and ad hoc tasks in settings that range from small offices to global enterprises and this massive footprint makes securing Windows a unique challenge This book will enable you to distinguish yourself to your clients In this book you

ll learn advanced techniques to attack Windows environments from the indispensable toolkit that is Kali Linux We ll work through core network hacking concepts and advanced Windows exploitation techniques such as stack and heap overflows precision heap spraying and kernel exploitation using coding principles that allow you to leverage powerful Python scripts and shellcode We ll wrap up with post exploitation strategies that enable you to go deeper and keep your access Finally we ll introduce kernel hacking fundamentals and fuzzing testing so you can discover vulnerabilities and write custom exploits By the end of this book you ll be well versed in identifying vulnerabilities within the Windows OS and developing the desired solutions for them What you will learn Get to know advanced pen testing techniques with Kali Linux Gain an understanding of Kali Linux tools and methods from behind the scenes See how to use Kali Linux at an advanced level Understand the exploitation of Windows kernel drivers Understand advanced Windows concepts and protections and how to bypass them using Kali Linux Discover Windows exploitation techniques such as stack and heap overflows and kernel exploitation through coding principles Who this book is for This book is for penetration testers ethical hackers and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps Prior experience with Windows exploitation Kali Linux and some Windows debugging tools is necessary Advanced Penetration Testing Wil Allsopp, 2017-02-22 Build a better defense against motivated organized professional attacks Advanced Penetration Testing Hacking the World s Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation Featuring techniques not taught in any certification prep or covered by common defensive scanners this book integrates social engineering programming and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments From discovering and creating attack vectors and moving unseen through a target enterprise to establishing command and exfiltrating data even from organizations without a direct Internet connection this guide contains the crucial techniques that provide a more accurate picture of your system s defense Custom coding examples use VBA Windows Scripting Host C Java JavaScript Flash and more with coverage of standard library applications and the use of scanning tools to bypass common defensive measures Typical penetration testing consists of low level hackers attacking a system with a list of known vulnerabilities and defenders preventing those hacks using an equally well known list of defensive scans The professional hackers and nation states on the forefront of today s threats operate at a much more complex level and this book shows you how to defend your high security network Use targeted social engineering pretexts to create the initial compromise Leave a command and control structure in place for long term access Escalate privilege and breach networks operating systems and trust structures Infiltrate further using harvested credentials while expanding control Today s threats are organized professionally run and very much for profit Financial institutions health care organizations law enforcement government agencies and other high value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals Advanced Penetration Testing goes beyond Kali linux and

Metasploit and to provide you advanced pen testing for high security networks      Web Penetration Testing with Kali Linux  
Gilberto Najera-Gutierrez,Juned Ahmed Ansari,2018-02-28 Build your defense against web attacks with Kali Linux including command injection flaws crypto implementation layers and web application security holes Key Features Know how to set up your lab with Kali Linux Discover the core concepts of web penetration testing Get the tools and techniques you need with Kali Linux Book Description Web Penetration Testing with Kali Linux Third Edition shows you how to set up a lab helps you understand the nature and mechanics of attacking websites and explains classical attacks in great depth This edition is heavily updated for the latest Kali Linux changes and the most recent attacks Kali Linux shines when it comes to client side attacks and fuzzing in particular From the start of the book you ll be given a thorough grounding in the concepts of hacking and penetration testing and you ll see the tools used in Kali Linux that relate to web application hacking You ll gain a deep understanding of classicalSQL command injection flaws and the many ways to exploit these flaws Web penetration testing also needs a general overview of client side attacks which is rounded out by a long discussion of scripting and input validation flaws There is also an important chapter on cryptographic implementation flaws where we discuss the most recent problems with cryptographic layers in the networking stack The importance of these attacks cannot be overstated and defending against them is relevant to most internet users and of course penetration testers At the end of the book you ll use an automated technique called fuzzing to identify flaws in a web application Finally you ll gain an understanding of web application vulnerabilities and the ways they can be exploited using the tools in Kali Linux What you will learn Learn how to set up your lab with Kali Linux Understand the core concepts of web penetration testing Get to know the tools and techniques you need to use with Kali Linux Identify the difference between hacking a web application and network hacking Expose vulnerabilities present in web servers and their applications using server side attacks Understand the different techniques used to identify the flavor of web applications See standard attacks such as exploiting cross site request forgery and cross site scripting flaws Get an overview of the art of client side attacks Explore automated attacks such as fuzzing web applications Who this book is for Since this book sets out to cover a large number of tools and security fields it can work as an introduction to practical security skills for beginners in security In addition web programmers and also system administrators would benefit from this rigorous introduction to web penetration testing Basic system administration skills are necessary and the ability to read code is a must      **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     Advanced Penetration Testing for Highly-Secured Environments, Second Edition Lee Allen, Kevin Cardwell, 2016-03-29 Employ the most advanced pentesting techniques and tools to build highly secured systems and environments About This Book Learn how to build your own pentesting lab environment to practice advanced techniques Customize your own scripts and learn methods to exploit 32 bit and 64 bit programs Explore a vast variety of stealth techniques to bypass a number of protections when penetration testing Who This Book Is For This book is for anyone who wants to improve their skills in penetration testing As it follows a step by step approach anyone from a novice to an

experienced security tester can learn effective techniques to deal with highly secured environments Whether you are brand new or a seasoned expert this book will provide you with the skills you need to successfully create customize and plan an advanced penetration test What You Will Learn A step by step methodology to identify and penetrate secured environments Get to know the process to test network services across enterprise architecture when defences are in place Grasp different web application testing methods and how to identify web application protections that are deployed Understand a variety of concepts to exploit software Gain proven post exploitation techniques to exfiltrate data from the target Get to grips with various stealth techniques to remain undetected and defeat the latest defences Be the first to find out the latest methods to bypass firewalls Follow proven approaches to record and save the data from tests for analysisIn DetailThe defences continue to improve and become more and more common but this book will provide you with a number of proven techniques to defeat the latest defences on the networks The methods and techniques contained will provide you with a powerful arsenal of best practices to increase your penetration testing successes The processes and methodology will provide you techniques that will enable you to be successful and the step by step instructions of information gathering and intelligence will allow you to gather the required information on the targets you are testing The exploitation and post exploitation sections will supply you with the tools you would need to go as far as the scope of work will allow you The challenges at the end of each chapter are designed to challenge you and provide real world situations that will hone and perfect your penetration testing skills You will start with a review of several well respected penetration testing methodologies and following this you will learn a step by step methodology of professional security testing including stealth methods of evasion and obfuscation to perform your tests and not be detected The final challenge will allow you to create your own complex layered architecture with defences and protections in place and provide the ultimate testing range for you to practice the methods shown throughout the book The challenge is as close to an actual penetration test assignment as you can get Style and approachThe book follows the standard penetration testing stages from start to finish with step by step examples The book thoroughly covers penetration test expectations proper scoping and planning as well as enumeration and foot printing

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