



Community Experience Distilled

# Advanced Penetration Testing for Highly-Secured Environments: The Ultimate Security Guide

Learn to perform professional penetration testing for highly-secured environments with this intensive hands-on guide

Lee Allen

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# Advanced Penetration Testing For Highly Secured Environments The Ultimate Security Guide Open Source Community Experience Distilled

**Gerard Johansen, Lee Allen, Tedi  
Heriyanto, Shakeel Ali**



## **Advanced Penetration Testing For Highly Secured Environments The Ultimate Security Guide Open Source Community Experience Distilled:**

Advanced Penetration Testing for Highly-Secured Environments Lee Allen,2012-01-01 An intensive hands on guide to perform professional penetration testing for highly secured environments from start to finish You will learn to provide penetration testing services to clients with mature security infrastructure Understand how to perform each stage of the penetration test by gaining hands on experience in performing attacks that mimic those seen in the wild In the end take the challenge and perform a virtual penetration test against a fictional corporation If you are looking for guidance and detailed instructions on how to perform a penetration test from start to finish are looking to build out your own penetration testing lab or are looking to improve on your existing penetration testing skills this book is for you Although the books attempts to accommodate those that are still new to the penetration testing field experienced testers should be able to gain knowledge and hands on experience as well The book does assume that you have some experience in web application testing and as such the chapter regarding this subject may require you to understand the basic concepts of web security The reader should also be familiar with basic IT concepts and commonly used protocols such as TCP IP      **Mastering the Nmap Scripting**

**Engine** Paulino Calderón Pale,2015-02-18 If you want to learn to write your own scripts for the Nmap Scripting Engine this is the book for you It is perfect for network administrators information security professionals and even Internet enthusiasts who are familiar with Nmap      **Testing with F#** Mikael Lundin,2015-02-20 If you are a developer who wants to test applications using F this is the book for you Basic experience of testing and intermediate experience of functional programming in F is expected

Learning zANTI2 for Android Pentesting Miroslav Vitula,2015-08-31 Dive into the world of advanced network penetration tests to survey and attack wireless networks using your Android device and zANTI2 About This Book Understand the basics of wireless penetration testing and its importance Learn the techniques to perform penetration testing on your wireless networks such as scanning detecting vulnerabilities in your victim and then attacking This simple and intriguing guide takes a step by step approach that will help you get to grips with network pentesting using just your Android device and zANTI2 Who This Book Is For The book is intended for those who want to know more about network penetration tests and have no prior experience as well as for those who are experienced in network systems and are curious to discover more about this topic Since zANTI2 features an extremely intuitive and easy to control interface it doesn't require any special skills What You Will Learn Understand the importance of penetration testing throughout systems Take a run through zANTI2's interface and understand the requirements to the app Perform advanced scanning network mapping and discover the various types of scans used on a target Discover and remotely connect to open ports on a target thereby accessing a target's files and folders remotely Detect vulnerabilities on a target learn how to remotely exploit them and discover ways to protect your self from these exploits Understand what an MITM attack is and how it works and apply this

knowledge to perform attacks on network targets Learn to hijack sessions identify victim s passwords replace images on websites inject scripts and more Use this knowledge to protect yourself from all of the attacks you will study In Detail A penetration test is one of the most important methods to secure a network or any individual machine Having knowledge of these methods can enable a user to protect himself herself from any kinds of attacks Penetration tests can also be used to discover flaws or loop holes in one s security system which if not fixed can be exploited by an unwanted entity This book starts off with an introduction to what penetration testing is and how it can be performed on Android using zANTI2 Once you are aware of the basics we move on to teach you the different types of scans that can be performed to search for targets You will then learn how to connect to open ports and intrude into an unsecured computer From here you will explore vulnerabilities and their usage including ShellShock and SSL Poodle vulnerability When connected to an open network a user is susceptible to password and session hijacking and a number of other cyber attacks The book therefore ends with one of the main aspects of cyber security the Man in the Middle attack You will get to know everything about the MITM attack how it works and how one can be protected against it Style and approach The book follows a step by step approach with each of the parts explained in an easy to follow style Most of the methods showcased can be tried out immediately on almost any network

**Advanced Penetration Testing for Highly-secured Environments** Lee Allen,2012 *Advanced Penetration Testing for Highly-secured Environments* Julius Jantz,2017-05-18 Learn how to perform an efficient organized and effective penetration test from start to finish Gain hands on penetration testing experience by building and testing a virtual lab environment that includes commonly found security measures such as IDS and firewalls Take the challenge and perform a virtual penetration test against a fictional corporation from start to finish and then verify your results by walking through step by step solutions

**Advanced Penetration Testing for Highly-secured Environments** Aaron Johns,2013 The Advanced Penetration Testing for Highly Secured Environments video course is aimed at both newcomers and experienced professionals who wish to gain hands on experience of advanced penetration testing You will need elemental IT skills and concepts knowledge of common network protocols such as TCP IP and a basic understanding of penetration testing Packt video courses are designed to cover the breadth of the topic in short hands on task based videos Each course is divided into short manageable sections so you can watch the whole thing or jump to the bit you need The focus is on practical instructions and screencasts showing you how to get the job done This video course takes a progressive approach by first unraveling advanced security techniques and then applying these techniques in a fictional environment It is thoroughly educational and gives users the opportunity to test their skills Resource description page

*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 environmentsAbout 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

**Advanced Penetration Testing** Wil Allsopp, 2017-02-27 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

**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      *Mastering Kali Linux for Advanced Penetration Testing* Vijay Kumar Velu, Robert Beggs, 2019-01-30 A practical guide to testing your infrastructure security with Kali Linux the preferred choice of pentesters and hackers Key Features Employ advanced pentesting techniques with Kali Linux to build highly secured systems Discover various stealth techniques to remain undetected and defeat modern infrastructures Explore red teaming techniques to exploit secured environment Book Description This book takes you as a tester or security practitioner through the reconnaissance vulnerability assessment exploitation privilege escalation and post exploitation activities used by pentesters To start with you ll use a laboratory environment to validate tools and techniques along with an application that supports a collaborative approach for pentesting You ll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure You ll also focus on how to select use customize and interpret the results from different vulnerability scanners followed by examining specific routes to the target which include bypassing physical security and the exfiltration of data using a variety of techniques You ll discover concepts such as social engineering attacking wireless networks web services and embedded devices Once you are confident with these topics you ll learn the practical aspects of attacking user client systems by backdooring with fileless techniques followed by focusing on the most vulnerable part of the network directly attacking the end user By the end of this book you ll have explored approaches for carrying out advanced pentesting in tightly secured environments understood pentesting and hacking techniques employed on embedded peripheral devices What you will learn Configure the most effective Kali Linux tools to test infrastructure security Employ stealth to avoid detection in the infrastructure being tested Recognize when stealth attacks are being used against your infrastructure Exploit networks and data systems using wired and wireless networks as well as web services Identify and download valuable data from target systems Maintain access to compromised systems Use social engineering to compromise the weakest part of the network the end users Who this book is for This third edition of *Mastering Kali Linux for Advanced Penetration Testing* is for you if you are a security analyst pentester ethical hacker IT professional or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of Kali Linux Prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book      *Building Virtual Pentesting Labs for Advanced Penetration Testing* Kevin Cardwell, 2014-06-20 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

*Mastering Kali Linux for Advanced Penetration Testing* Vijay Kumar Velu, 2022-02-28 Master key approaches used by real attackers to perform advanced pentesting in tightly secured infrastructure cloud and virtualized environments and devices and learn the latest phishing and hacking techniques Key Features Explore red teaming and play the hackers game to proactively defend your infrastructure Use OSINT Google dorks Nmap recon nag and other tools for passive and active reconnaissance Learn about the latest email Wi Fi and mobile based phishing techniques Book Description Remote working has given hackers plenty of opportunities as more confidential information is shared over the internet than ever before In this new edition of *Mastering Kali Linux for Advanced Penetration Testing* you ll learn an offensive approach to enhance your penetration testing skills by testing the sophisticated tactics employed by real hackers You ll go through laboratory integration to cloud services so that you learn another dimension of exploitation that is typically forgotten during a penetration test You ll explore different ways of installing and running Kali Linux in a VM and containerized environment and deploying vulnerable cloud services on AWS using containers exploiting misconfigured S3 buckets to gain access to EC2 instances This book delves into passive and active reconnaissance from obtaining user information to large scale port scanning Building on this different vulnerability assessments are explored including threat modeling See how hackers use lateral movement privilege escalation and command and control C2 on compromised systems By the end of this book you ll have explored many advanced pentesting approaches and hacking techniques employed on networks IoT embedded peripheral devices and radio frequencies What you will learn Exploit networks using wired wireless networks cloud infrastructure and web services Learn embedded peripheral device Bluetooth RFID and IoT hacking techniques Master the art of bypassing traditional antivirus and endpoint detection and response EDR tools Test for data system exploits using Metasploit PowerShell Empire and CrackMapExec Perform cloud security vulnerability assessment and exploitation of security misconfigurations Use bettercap and Wireshark for network sniffing Implement complex attacks with Metasploit Burp Suite and OWASP ZAP Who this book is for This fourth edition is for security analysts pentesters ethical hackers red team operators and security consultants wanting to learn and optimize infrastructure application cloud security using advanced Kali Linux features Prior penetration testing experience and basic knowledge of ethical hacking will help you make the most of this book

*Mastering Kali Linux for Advanced Penetration Testing* Vijay Kumar Velu, 2017-06-30 A practical guide to testing your network s security with Kali Linux the preferred choice of penetration testers and hackers About This Book Employ advanced pentesting techniques with Kali Linux to build highly secured systems Get to grips with various stealth techniques to remain undetected and defeat the latest defenses and follow proven approaches Select and configure the most effective tools from Kali Linux to test network security and prepare your business against malicious threats and save costs Who This Book Is For Penetration Testers IT professional or a security consultant who wants to maximize the success of your



network testing using some of the advanced features of Kali Linux then this book is for you Some prior exposure to basics of penetration testing ethical hacking would be helpful in making the most out of this title What You Will Learn Select and configure the most effective tools from Kali Linux to test network security Employ stealth to avoid detection in the network being tested Recognize when stealth attacks are being used against your network Exploit networks and data systems using wired and wireless networks as well as web services Identify and download valuable data from target systems Maintain access to compromised systems Use social engineering to compromise the weakest part of the network the end users In Detail This book will take you as a tester or security practitioner through the journey of reconnaissance vulnerability assessment exploitation and post exploitation activities used by penetration testers and hackers We will start off by using a laboratory environment to validate tools and techniques and using an application that supports a collaborative approach to penetration testing Further we will get acquainted with passive reconnaissance with open source intelligence and active reconnaissance of the external and internal networks We will also focus on how to select use customize and interpret the results from a variety of different vulnerability scanners Specific routes to the target will also be examined including bypassing physical security and exfiltration of data using different techniques You will also get to grips with concepts such as social engineering attacking wireless networks exploitation of web applications and remote access connections Later you will learn the practical aspects of attacking user client systems by backdooring executable files You will focus on the most vulnerable part of the network directly and bypassing the controls attacking the end user and maintaining persistence access through social media You will also explore approaches to carrying out advanced penetration testing in tightly secured environments and the book s hands on approach will help you understand everything you need to know during a Red teaming exercise or penetration testing Style and approach An advanced level tutorial that follows a practical approach and proven methods to maintain top notch security of your networks [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

### **Mastering Wireless Penetration Testing for Highly-Secured Environments** Aaron

Johns,2015-01-23 This book is intended for security professionals who want to enhance their wireless penetration testing skills and knowledge Since this book covers advanced techniques you will need some previous experience in computer security and networking

The Ultimate Kali Linux Book Glen D. Singh,2022-02-24 The most comprehensive guide to ethical hacking and penetration testing with Kali Linux from beginner to professional Key Features Learn to compromise enterprise networks with Kali Linux Gain comprehensive insights into security concepts using advanced real life hacker techniques Use Kali Linux in the same way ethical hackers and penetration testers do to gain control of your environment Purchase of the print or Kindle book includes a free eBook in the PDF format Book DescriptionKali Linux is the most popular and advanced penetration testing Linux distribution within the cybersecurity industry Using Kali Linux a cybersecurity professional will be able to discover and exploit various vulnerabilities and perform advanced penetration testing on both enterprise wired and wireless networks This book is a comprehensive guide for those who are new to Kali Linux and penetration testing that will have you up to speed in no time Using real world scenarios you ll understand how to set up a lab and explore core penetration testing concepts Throughout this book you ll focus on information gathering and even discover different vulnerability assessment tools bundled in Kali Linux You ll learn to discover target systems on a network identify security flaws on devices exploit security weaknesses and gain access to networks set up Command and Control C2 operations and perform web application penetration testing In this updated second edition you ll be able to compromise Active Directory and exploit enterprise networks Finally this book covers best practices for performing complex web penetration testing techniques in a highly secured environment By the end of this Kali Linux book you ll have gained the skills to perform advanced penetration testing on enterprise networks using Kali Linux What you will learn Explore the fundamentals of ethical hacking Understand how to install and configure Kali Linux Perform asset and network discovery techniques Focus on how to perform vulnerability assessments Exploit the trust in Active Directory domain services Perform advanced exploitation with Command and Control C2 techniques Implement advanced wireless hacking techniques Become well versed with exploiting vulnerable web applications Who this book is for This pentesting book is for students trainers cybersecurity professionals cyber enthusiasts network security professionals ethical hackers penetration testers and security engineers If you do not have any prior knowledge and are looking to become an expert in penetration testing using the Kali

Linux operating system OS then this book is for you      **Ultimate Penetration Testing with Nmap: Master Cybersecurity Assessments for Network Security, Monitoring, and Scanning Using Nmap** Travis DeForge, 2024-03-30

Master one of the most essential tools a professional pen tester needs to know Key Features Strategic deployment of Nmap across diverse security assessments optimizing its capabilities for each scenario Proficient mapping of corporate attack surfaces precise fingerprinting of system information and accurate identification of vulnerabilities Seamless integration of advanced obfuscation tactics and firewall evasion techniques into your scanning strategies ensuring thorough and effective assessments

**Book Description** This essential handbook offers a systematic journey through the intricacies of Nmap providing both novice and seasoned professionals with the tools and techniques needed to conduct thorough security assessments with confidence The purpose of this book is to educate and empower cyber security professionals to increase their skill set and by extension contribute positively to the cyber security posture of organizations through the use of Nmap This book starts at the ground floor by establishing a baseline understanding of what Penetration Testing is how it is similar but distinct from other types of security engagements and just how powerful of a tool Nmap can be to include in a pen tester s arsenal By systematically building the reader s proficiency through thought provoking case studies guided hands on challenges and robust discussions about how and why to employ different techniques the reader will finish each chapter with new tangible skills With practical best practices and considerations you ll learn how to optimize your Nmap scans while minimizing risks and false positives At the end you will be able to test your knowledge with Nmap practice questions and utilize the quick reference guide for easy access to essential commands and functions

**What you will learn** Establish a robust penetration testing lab environment to simulate real world scenarios effectively Utilize Nmap proficiently to thoroughly map an organization s attack surface identifying potential entry points and weaknesses Conduct comprehensive vulnerability scanning and exploiting discovered vulnerabilities using Nmap s powerful features Navigate complex and extensive network environments with ease and precision optimizing scanning efficiency Implement advanced obfuscation techniques to bypass security measures and accurately assess system vulnerabilities Master the capabilities of the Nmap Scripting Engine enhancing your toolkit with custom scripts for tailored security assessments and automated tasks

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**APPENDIX A** Additional Questions **APPENDIX B** Nmap Quick Reference Guide

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**Web Penetration Testing with Kali Linux** Juned Ahmed Ansari, 2015-11-26 Build your defense against web attacks with Kali Linux 2 0

**About 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 toolkit Who This Book Is For If 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 attacks In Detail Kali 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 approach This 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

**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

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### **Advanced Penetration Testing For Highly Secured Environments The Ultimate Security Guide Open Source Community Experience Distilled Introduction**

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