

# Metasploit

*The Penetration Tester's Guide*



David Kennedy, Jim O'Gorman, Devon Kearns, and Mati Aharoni

Foreword by HD Moore



# Metasploit The Penetration Testers

**Monika Agarwal,Abhinav Singh**



## **Metasploit The Penetration Testers :**

*Metasploit* David Kennedy,Jim O'Gorman,Devon Kearns,Mati Aharoni,2011-07-15 The Metasploit Framework makes discovering exploiting and sharing vulnerabilities quick and relatively painless But while Metasploit is used by security professionals everywhere the tool can be hard to grasp for first time users *Metasploit The Penetration Tester s Guide* fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors Once you ve built your foundation for penetration testing you ll learn the Framework s conventions interfaces and module system as you launch simulated attacks You ll move on to advanced penetration testing techniques including network reconnaissance and enumeration client side attacks wireless attacks and targeted social engineering attacks Learn how to Find and exploit unmaintained misconfigured and unpatched systems Perform reconnaissance and find valuable information about your target Bypass anti virus technologies and circumvent security controls Integrate Nmap NeXpose and Nessus with Metasploit to automate discovery Use the Meterpreter shell to launch further attacks from inside the network Harness standalone Metasploit utilities third party tools and plug ins Learn how to write your own Meterpreter post exploitation modules and scripts You ll even touch on exploit discovery for zero day research write a fuzzer port existing exploits into the Framework and learn how to cover your tracks Whether your goal is to secure your own networks or to put someone else s to the test **Metasploit Revealed: Secrets of the Expert Pentester** Sagar Rahalkar,Nipun Jaswal,2017-12-05 Exploit the secrets of Metasploit to master the art of penetration testing About This Book Discover techniques to integrate Metasploit with the industry s leading tools Carry out penetration testing in highly secured environments with Metasploit and acquire skills to build your defense against organized and complex attacks Using the Metasploit framework develop exploits and generate modules for a variety of real world scenarios Who This Book Is For This course is for penetration testers ethical hackers and security professionals who d like to master the Metasploit framework and explore approaches to carrying out advanced penetration testing to build highly secure networks Some familiarity with networking and security concepts is expected although no familiarity of Metasploit is required What You Will Learn Get to know the absolute basics of the Metasploit framework so you have a strong foundation for advanced attacks Integrate and use various supporting tools to make Metasploit even more powerful and precise Test services such as databases SCADA and many more Attack the client side with highly advanced techniques Test mobile and tablet devices with Metasploit Understand how to Customize Metasploit modules and modify existing exploits Write simple yet powerful Metasploit automation scripts Explore steps involved in post exploitation on Android and mobile platforms In Detail Metasploit is a popular penetration testing framework that has one of the largest exploit databases around This book will show you exactly how to prepare yourself against the attacks you will face every day by simulating real world possibilities This learning path will begin by introducing you to Metasploit and its functionalities You will learn how to set up and

configure Metasploit on various platforms to create a virtual test environment You will also get your hands on various tools and components and get hands on experience with carrying out client side attacks In the next part of this learning path you ll develop the ability to perform testing on various services such as SCADA databases IoT mobile tablets and many 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 The final instalment of your learning journey will be covered through a bootcamp approach You will be able to bring together the learning together and speed up and integrate Metasploit with leading industry tools for penetration testing You ll finish by working on challenges based on user s preparation and work towards solving the challenge The course provides you with highly practical content explaining Metasploit from the following Packt books Metasploit for Beginners Mastering Metasploit Second Edition Metasploit Bootcamp Style and approach This pragmatic learning path is packed with start to end instructions from getting started with Metasploit to effectively building new things and solving real world examples All the key concepts are explained with the help of examples and demonstrations that will help you understand everything to use this essential IT power tool

**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

**Hands-On Web Penetration Testing with Metasploit** Harpreet Singh,Himanshu

Sharma,2020-05-22 Identify exploit and test web application security with ease Key Features Get up to speed with Metasploit and discover how to use it for pentesting Understand how to exploit and protect your web environment effectively Learn how an exploit works and what causes vulnerabilities Book Description Metasploit has been a crucial security tool for many years However there are only a few modules that Metasploit has made available to the public for pentesting web applications In this book you ll explore another aspect of the framework web applications which is not commonly used You ll also discover how Metasploit when used with its inbuilt GUI simplifies web application penetration testing The book starts by focusing on the Metasploit setup along with covering the life cycle of the penetration testing process Then you will explore Metasploit terminology and the web GUI which is available in the Metasploit Community Edition Next the book will take you through pentesting popular content management systems such as Drupal WordPress and Joomla which will also include studying the latest CVEs and understanding the root cause of vulnerability in detail Later you ll gain insights into the vulnerability assessment and exploitation of technological platforms such as JBoss Jenkins and Tomcat Finally you ll learn how to fuzz web applications to find logical security vulnerabilities using third party tools By the end of this book you ll have a solid understanding of how to exploit and validate vulnerabilities by working with various tools and techniques What you will learn Get up to speed with setting up and installing the Metasploit framework Gain first hand experience of the Metasploit web interface Use Metasploit for web application reconnaissance Understand how to pentest various content management systems Pentest platforms such as JBoss Tomcat and Jenkins Become well versed with fuzzing web applications Write and automate penetration testing reports Who this book is for This book is for web security analysts bug bounty hunters security professionals or any stakeholder in the security sector who wants to delve into web application security testing Professionals who are not experts with command line tools or Kali Linux and prefer Metasploit s graphical user interface GUI will also find this book useful No experience with Metasploit is required but basic knowledge of Linux and web application pentesting will be helpful

*Metasploit Penetration Testing Cookbook* Abhinav Singh,2012-06-22 Over 80 recipes to master the most widely used penetration testing framework

*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 [The The Complete Metasploit Guide](#) Sagar Rahalkar,Nipun Jaswal,2019-06-25 Master the Metasploit Framework and become an expert in penetration testing Key FeaturesGain a thorough understanding of the Metasploit FrameworkDevelop the skills to perform penetration testing in complex and highly secure environmentsLearn techniques to integrate Metasploit with the industry s leading toolsBook Description Most businesses today are driven by their IT infrastructure and the tiniest crack in this IT network can bring down the entire business Metasploit is a pentesting network that can validate your system by performing elaborate penetration tests using the Metasploit Framework to secure your infrastructure This Learning Path introduces you to the basic functionalities and applications of Metasploit Throughout this book you ll learn different techniques for programming Metasploit modules to validate services such as databases fingerprinting and scanning You ll get to grips with post exploitation and write quick scripts to gather information from exploited systems As you progress you ll delve into real world scenarios where performing penetration tests are a challenge With the help of these case studies you ll explore client side attacks using Metasploit and a variety of scripts built on the Metasploit Framework By the end of this Learning Path you ll have the skills required to identify system vulnerabilities by using thorough testing This Learning Path includes content from the following Packt products Metasploit for Beginners by Sagar RahalkarMastering Metasploit Third Edition by Nipun JaswalWhat you will learnDevelop advanced and sophisticated auxiliary modulesPort exploits from Perl Python and many other programming languagesBypass modern protections such as antivirus and IDS with MetasploitScript attacks in Armitage using the Cortana scripting languageCustomize Metasploit modules to modify existing exploitsExplore the steps involved in post exploitation on Android and mobile platformsWho this book is for This Learning Path is ideal for security professionals web programmers and pentesters who want to master vulnerability exploitation and get the most of the Metasploit Framework Basic knowledge of Ruby programming and Cortana scripting language is required [Metasploit Penetration Testing Cookbook](#) Abhinav Singh,Nipun Jaswal,Monika Agarwal,Daniel Teixeira,2018-02-26 Over 100 recipes for penetration testing using Metasploit and virtual machines Key Features Special focus on the latest operating systems exploits

and penetration testing techniques Learn new anti virus evasion techniques and use Metasploit to evade countermeasures Automate post exploitation with AutoRunScript Exploit Android devices record audio and video send and read SMS read call logs and much more Build and analyze Metasploit modules in Ruby Integrate Metasploit with other penetration testing tools Book Description Metasploit is the world s leading penetration testing tool and helps security and IT professionals find exploit and validate vulnerabilities Metasploit allows penetration testing automation password auditing web application scanning social engineering post exploitation evidence collection and reporting Metasploit s integration with InsightVM or Nexpose Nessus OpenVas and other vulnerability scanners provides a validation solution that simplifies vulnerability prioritization and remediation reporting Teams can collaborate in Metasploit and present their findings in consolidated reports In this book you will go through great recipes that will allow you to start using Metasploit effectively With an ever increasing level of complexity and covering everything from the fundamentals to more advanced features in Metasploit this book is not just for beginners but also for professionals keen to master this awesome tool You will begin by building your lab environment setting up Metasploit and learning how to perform intelligence gathering threat modeling vulnerability analysis exploitation and post exploitation all inside Metasploit You will learn how to create and customize payloads to evade anti virus software and bypass an organization s defenses exploit server vulnerabilities attack client systems compromise mobile phones automate post exploitation install backdoors run keyloggers highjack webcams port public exploits to the framework create your own modules and much more What you will learn Set up a complete penetration testing environment using Metasploit and virtual machines Master the world s leading penetration testing tool and use it in professional penetration testing Make the most of Metasploit with PostgreSQL importing scan results using workspaces hosts loot notes services vulnerabilities and exploit results Use Metasploit with the Penetration Testing Execution Standard methodology Use MSFvenom efficiently to generate payloads and backdoor files and create shellcode Leverage Metasploit s advanced options upgrade sessions use proxies use Meterpreter sleep control and change timeouts to be stealthy Who this book is for If you are a Security professional or pentester and want to get into vulnerability exploitation and make the most of the Metasploit framework then this book is for you Some prior understanding of penetration testing and Metasploit is required

*Metasploit 5.0 for Beginners* Sagar Rahalkar, 2020-04-10 A comprehensive guide to Metasploit for beginners that will help you get started with the latest Metasploit 5.0 Framework for exploiting real world vulnerabilities Key Features Perform pentesting in highly secured environments with Metasploit 5.0 Become well versed with the latest features and improvements in the Metasploit Framework 5.0 Analyze find exploit and gain access to different systems by bypassing various defenses Book Description Securing an IT environment can be challenging however effective penetration testing and threat identification can make all the difference This book will help you learn how to use the Metasploit Framework optimally for comprehensive penetration testing Complete with hands on tutorials and case studies this updated second edition will teach you the basics of

the Metasploit Framework along with its functionalities You'll learn how to set up and configure Metasploit on various platforms to create a virtual test environment Next you'll get hands on with the essential tools As you progress you'll learn how to find weaknesses in the target system and hunt for vulnerabilities using Metasploit and its supporting tools and components Later you'll get to grips with web app security scanning bypassing anti virus and post compromise methods for clearing traces on the target system The concluding chapters will take you through real world case studies and scenarios that will help you apply the knowledge you've gained to ethically hack into target systems You'll also discover the latest security techniques that can be directly applied to scan test ethically hack and secure networks and systems with Metasploit By the end of this book you'll have learned how to use the Metasploit 5.0 Framework to exploit real world vulnerabilities What you will learn

Set up the environment for Metasploit Understand how to gather sensitive information and exploit vulnerabilities Get up to speed with client side attacks and web application scanning using Metasploit Leverage the latest features of Metasploit 5.0 to evade anti virus Delve into cyber attack management using Armitage Understand exploit development and explore real world case studies

Who this book is for If you are a penetration tester ethical hacker or security consultant who wants to quickly get started with using the Metasploit Framework to carry out elementary penetration testing in highly secured environments then this Metasploit book is for you You will also find this book useful if you're interested in computer security particularly in the areas of vulnerability assessment and pentesting and want to develop practical skills when using the Metasploit Framework

**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 Gutierrez Metasploit Penetration Testing Cookbook Third Edition by Abhinav Singh Monika Agarwal et al

What you will learn Build and analyze Metasploit modules in Ruby Integrate Metasploit with other

penetration testing tools Use server side attacks to detect vulnerabilities in web servers and their applications Explore automated attacks such as fuzzing web applications Identify the difference between hacking a web application and network hacking Deploy Metasploit with the Penetration Testing Execution Standard PTES Use MSFvenom to generate payloads and backdoor files and create shellcode Who 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

**Metasploit Penetration Testing Cookbook** Monika Agarwal, 2013 This book follows a Cookbook style with recipes explaining the steps for penetration testing with WLAN VOIP and even cloud computing There is plenty of code and commands used to make your learning curve easy and quick This book targets both professional penetration testers as well as new users of Metasploit who wish to gain expertise over the framework and learn an additional skill of penetration testing not limited to a particular OS The book requires basic knowledge of scanning exploitation and the Ruby language

**Metasploit Bootcamp** Nipun Jaswal, 2017-05-25 Master the art of penetration testing with Metasploit Framework in 7 days About This Book A fast paced guide that will quickly enhance your penetration testing skills in just 7 days Carry out penetration testing in complex and highly secured environments Learn techniques to Integrate Metasploit with industry s leading tools Who This Book Is For If you are a penetration tester ethical hacker or security consultant who quickly wants to master the Metasploit framework and carry out advanced penetration testing in highly secured environments then this book is for you What You Will Learn Get hands on knowledge of Metasploit Perform penetration testing on services like Databases VOIP and much more Understand

how to Customize Metasploit modules and modify existing exploits Write simple yet powerful Metasploit automation scripts Explore steps involved in post exploitation on Android and mobile platforms In Detail The book starts with a hands on Day 1 chapter covering the basics of the Metasploit framework and preparing the readers for a self completion exercise at the end of every chapter The Day 2 chapter dives deep into the use of scanning and fingerprinting services with Metasploit while helping the readers to modify existing modules according to their needs Following on from the previous chapter Day 3 will focus on exploiting various types of service and client side exploitation while Day 4 will focus on post exploitation and writing quick scripts that helps with gathering the required information from the exploited systems The Day 5 chapter presents the reader with the techniques involved in scanning and exploiting various services such as databases mobile devices and VOIP The Day 6 chapter prepares the reader to speed up and integrate Metasploit with leading industry tools for penetration testing Finally Day 7 brings in sophisticated attack vectors and challenges based on the user s preparation over the past six days and ends with a Metasploit challenge to solve Style and approach This book is all about fast and intensive learning That means we don t waste time in helping readers get started The new content is basically about filling in with highly effective examples to build new things show solving problems in newer and unseen ways and solve real world examples

**Metasploit Penetration Testing Cookbook** Monika Agarwal,Abhinav Singh,2013-10 This book follows a Cookbook style with recipes explaining the steps for penetration testing with WLAN VOIP and even cloud computing There is plenty of code and commands used to make your learning curve easy and quick This book targets both professional penetration testers as well as new users of Metasploit who wish to gain expertise over the framework and learn an additional skill of penetration testing not limited to a particular OS The book requires basic knowledge of scanning exploitation and the Ruby language

*Mastering Metasploit* Nipun Jaswal,2014-01-01 A comprehensive and detailed step by step tutorial guide that takes you through important aspects of the Metasploit framework If you are a penetration tester security engineer or someone who is looking to extend their penetration testing skills with Metasploit then this book is ideal for you The readers ofthis book must have a basic knowledge of using Metasploit They are also expected to have knowledge of exploitation and an indepth understanding of object oriented programming languages

**Mastering Metasploit** Nipun Jaswal,2014-05-26 A comprehensive and detailed step by step tutorial guide that takes you through important aspects of the Metasploit framework If you are a penetration tester security engineer or someone who is looking to extend their penetration testing skills with Metasploit then this book is ideal for you The readers ofthis book must have a basic knowledge of using Metasploit They are also expected to have knowledge of exploitation and an indepth understanding of object oriented programming languages

*Metasploit, 2nd Edition* David Kennedy,Mati Aharoni,Devon Kearns,Jim O'Gorman,Daniel G. Graham,2025-01-28 The new and improved guide to penetration testing using the legendary Metasploit Framework Metasploit The Penetration Tester s Guide has been the definitive security assessment resource for over a decade The

Metasploit Framework makes discovering exploiting and sharing vulnerabilities quick and relatively painless but using it can be challenging for newcomers Written by renowned ethical hackers and industry experts this fully updated second edition includes Advanced Active Directory and cloud penetration testing Modern evasion techniques and payload encoding Malicious document generation for client side exploitation Coverage of recently added modules and commands Starting with Framework essentials exploits payloads Meterpreter and auxiliary modules you ll progress to advanced methodologies aligned with the Penetration Test Execution Standard PTES Through real world examples and simulated penetration tests you ll Conduct network reconnaissance and analyze vulnerabilities Execute wireless network and social engineering attacks Perform post exploitation techniques including privilege escalation Develop custom modules in Ruby and port existing exploits Use MSFvenom to evade detection Integrate with Nmap Nessus and the Social Engineer Toolkit Whether you re a cybersecurity professional ethical hacker or IT administrator this second edition of Metasploit The Penetration Tester s Guide is your key to staying ahead in the ever evolving threat landscape

**Mastering Metasploit, Second Edition** Nipun Jaswal,2016 Take your penetration testing and IT security skills to a whole new level with the secrets of MetasploitAbout This Book 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 resilientWho This Book Is ForThis 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 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 Perform social engineering with Metasploit Simulate attacks on web servers and systems with Armitage GUI Script attacks in Armitage using CORTANA scriptingIn DetailMetasploit is a popular penetration testing framework that has one of the largest exploit databases around This book will show you exactly how to prepare yourself against the attacks you will face every day by simulating real world possibilities 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 SCADA databases IoT mobile tablets and many 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 Style and approach This is a step by step guide that provides great Metasploit framework methodologies All the key concepts are explained details with the help of examples and demonstrations that will help you understand everything you need to know about Metasploit

**Mastering Metasploit** Nipun Jaswal, 2020-06-12 Discover the next level of network defense and penetration testing with the Metasploit 5.0 framework Key Features Make your network robust and resilient with this updated edition covering the latest pentesting techniques Explore a variety of entry points to compromise a system while remaining undetected Enhance your ethical hacking skills by performing penetration tests in highly secure environments Book Description Updated for the latest version of Metasploit this book will prepare you to face everyday cyberattacks by simulating real world scenarios Complete with step by step explanations of essential concepts and practical examples Mastering Metasploit will help you gain insights into programming Metasploit modules and carrying out exploitation as well as building and porting various kinds of exploits in Metasploit Giving you the ability to perform tests on different services including databases IoT and mobile this Metasploit book will help you get to grips with real world sophisticated scenarios where performing penetration tests is a challenge You will then learn a variety of methods and techniques to evade security controls deployed at a target's endpoint As you advance you will script automated attacks using CORTANA and Armitage to aid penetration testing by developing virtual bots and discover how you can add custom functionalities in Armitage Following real world case studies this book will take you on a journey through client side attacks using Metasploit and various scripts built on the Metasploit 5.0 framework By the end of the book you will have developed the skills you need to work confidently with efficient exploitation techniques What you will learn Develop advanced and sophisticated auxiliary exploitation and post exploitation modules Learn to script automated attacks using CORTANA Test services such as databases SCADA VoIP and mobile devices Attack the client side with highly advanced pentesting techniques Bypass modern protection mechanisms such as antivirus IDS and firewalls Import public exploits to the Metasploit Framework Leverage C and Python programming to effectively evade endpoint protection Who this book is for If you are a professional penetration tester security engineer or law enforcement analyst with basic knowledge of Metasploit this book will help you to master the Metasploit framework and guide you in developing your exploit and module development skills Researchers looking to add their custom functionalities to Metasploit will find this book useful As Mastering Metasploit covers Ruby programming and attack scripting using Cortana practical knowledge of Ruby and Cortana is required

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

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### **Metasploit The Penetration Testers Introduction**

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