

**Nipun Jaswal**

Foreword by: **Maj. Gen. J.P Singh**  
Shaurya Chakra (Retd.)- Sr. Director, Amity University

# Mastering Metasploit

**Second Edition**

Take your penetration testing and IT security skills to a whole new level with the secrets of Metasploit



**Packt>**

# Mastering Metasploit Nipun Jaswal

**Sagar Rahalkar,Nipun Jaswal**



## **Mastering Metasploit Nipun Jaswal:**

*Mastering Metasploit* Nipun Jaswal, 2016-09-30 Take your penetration testing and IT security skills to a whole new level with the secrets of Metasploit About 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 resilient 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 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 scripting 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 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, 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 of this 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, 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

Mastering Metasploit Nipun Jaswal,2020-06-12 Discover the next level of network defense and penetration testing with the Metasploit 5 0 framework Key FeaturesMake your network robust and resilient with this updated edition covering the latest pentesting techniquesExplore a variety of entry points to compromise a system while remaining undetectedEnhance your ethical hacking skills by performing penetration tests in highly secure environmentsBook 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 ll then learn a variety of methods and techniques to evade security controls deployed at a target s endpoint As you advance you ll 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 ll have developed the skills you need to work confidently with efficient exploitation techniques What you will learnDevelop advanced and sophisticated auxiliary exploitation and post exploitation modulesLearn 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 *The Complete Metasploit Guide* Sagar Rahalkar, Nipun Jaswal, 2019-06-25 Master the Metasploit Framework and become an expert in penetration testing Key Features Gain a thorough understanding of the Metasploit Framework Develop the skills to perform penetration testing in complex and highly secure environments Learn techniques to integrate Metasploit with the industry's leading tools Book 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 will learn different techniques for programming Metasploit modules to validate services such as databases fingerprinting and scanning You will get to grips with post exploitation and write quick scripts to gather information from exploited systems As you progress you will delve into real world scenarios where performing penetration tests are a challenge With the help of these case studies you will explore client side attacks using Metasploit and a variety of scripts built on the Metasploit Framework By the end of this Learning Path you will 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 Rahalkar Mastering Metasploit Third Edition by Nipun Jaswal What you will learn Develop advanced and sophisticated auxiliary modules Port exploits from Perl Python and many other programming languages Bypass modern protections such as antivirus and IDS with Metasploit Script attacks in Armitage using the Cortana scripting language Customize Metasploit modules to modify existing exploits Explore the steps involved in post exploitation on Android and mobile platforms Who 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 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 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 Mastering Metasploit

Cybellium,2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including Information Technology IT Cyber Security Information Security Big Data Artificial Intelligence AI Engineering Robotics Standards and compliance Our mission is to be at the forefront of computer science education offering a wide and comprehensive range of resources including books courses classes and training programs tailored to meet the diverse needs of any subject in computer science Visit <https://www.cybellium.com> for more books **Mastering Metasploit - Fourth Edition** Nipun Jaswal,2020 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 ll then learn a variety of methods and techniques to evade security

controls deployed at a target's endpoint. As you advance, you'll 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'll 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

**Mastering Modern Web Penetration Testing** Prakhar Prasad, 2016-10-28. Master the art of conducting modern pen testing attacks and techniques on your web application before the hacker does. About This Book: This book covers the latest technologies such as Advance XSS, XSRF, SQL Injection, Web API testing, XML attack vectors, OAuth 2.0 Security and more involved in today's web applications. Penetrate and secure your web application using various techniques. Get this comprehensive reference guide that provides advanced tricks and tools of the trade for seasoned penetration testers. Who This Book Is For: This book is for security professionals and penetration testers who want to speed up their modern web application penetrating testing. It will also benefit those at an intermediate level and web developers who need to be aware of the latest application hacking techniques. What You Will Learn: Get to know the new and less publicized techniques such as PHP Object Injection and XML based vectors. Work with different security tools to automate most of the redundant tasks. See different kinds of newly designed security headers and how they help to provide security. Exploit and detect different kinds of XSS vulnerabilities. Protect your web application using filtering mechanisms. Understand old school and classic web hacking in depth using SQL Injection, XSS and CSRF. Grasp XML related vulnerabilities and attack vectors such as XXE and DoS techniques. Get to know how to test REST APIs to discover security issues in them. In Detail: Web penetration testing is a growing, fast moving and absolutely critical field in information security. This book executes modern web application attacks and utilises cutting edge hacking techniques with an enhanced knowledge of web application security. We will cover web hacking techniques so you can explore the attack vectors during penetration tests. The book encompasses the latest technologies such as OAuth 2.0, Web API testing methodologies and XML vectors used by hackers. Some lesser discussed attack vectors such as RPO, relative path overwrite, DOM clobbering, PHP Object Injection and etc. has been covered in this book. We'll explain various old school techniques in depth such as XSS, CSRF, SQL Injection through the ever dependable SQLMap and reconnaissance Websites.



nowadays provide APIs to allow integration with third party applications thereby exposing a lot of attack surface we cover testing of these APIs using real life examples This pragmatic guide will be a great benefit and will help you prepare fully secure applications Style and approach This master level guide covers various techniques serially It is power packed with real world examples that focus more on the practical aspects of implementing the techniques rather going into detailed theory

*Mastering Machine Learning for Penetration Testing* Chiheb Chebbi, 2018-06-27 Become a master at penetration testing using machine learning with Python Key Features Identify ambiguities and breach intelligent security systems Perform unique cyber attacks to breach robust systems Learn to leverage machine learning algorithms Book Description Cyber security is crucial for both businesses and individuals As systems are getting smarter we now see machine learning interrupting computer security With the adoption of machine learning in upcoming security products it s important for pentesters and security researchers to understand how these systems work and to breach them for testing purposes This book begins with the basics of machine learning and the algorithms used to build robust systems Once you ve gained a fair understanding of how security products leverage machine learning you ll dive into the core concepts of breaching such systems Through practical use cases you ll see how to find loopholes and surpass a self learning security system As you make your way through the chapters you ll focus on topics such as network intrusion detection and AV and IDS evasion We ll also cover the best practices when identifying ambiguities and extensive techniques to breach an intelligent system By the end of this book you will be well versed with identifying loopholes in a self learning security system and will be able to efficiently breach a machine learning system What you will learn Take an in depth look at machine learning Get to know natural language processing NLP Understand malware feature engineering Build generative adversarial networks using Python libraries Work on threat hunting with machine learning and the ELK stack Explore the best practices for machine learning Who this book is for This book is for pen testers and security professionals who are interested in learning techniques to break an intelligent security system Basic knowledge of Python is needed but no prior knowledge of machine learning is necessary

*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 learnSet up the environment for MetasploitUnderstand how to gather sensitive information and exploit vulnerabilitiesGet up to speed with client side attacks and web application scanning using MetasploitLeverage the latest features of Metasploit 5 0 to evade anti virusDelve into cyber attack management using ArmitageUnderstand exploit development and explore real world case studiesWho 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     Hands-On Web Penetration Testing with Metasploit Harpreet Singh,Himanshu

Sharma,2020-05-22 Identify exploit and test web application security with ease Key FeaturesGet up to speed with Metasploit and discover how to use it for pentestingUnderstand how to exploit and protect your web environment effectivelyLearn how an exploit works and what causes vulnerabilitiesBook Description Metasploit has been a crucial security tool for many years However there are only a few modules that Metasploit has made available to the public for pentesting web applications In this book you ll explore another aspect of the framework web applications which is not commonly used You ll also discover how Metasploit when used with its inbuilt GUI simplifies web application penetration testing The book starts by focusing on the Metasploit setup along with covering the life cycle of the penetration testing process Then you will explore Metasploit terminology and the web GUI which is available in the Metasploit Community Edition Next the book will take you through pentesting popular content management systems such as Drupal WordPress and Joomla which will also include studying the latest CVEs and understanding the root cause of vulnerability in detail Later you ll gain insights into the vulnerability assessment and exploitation of technological platforms such as JBoss Jenkins and Tomcat Finally you ll learn how to fuzz web applications to find logical security vulnerabilities using third party tools By the end of this book you ll have a solid understanding of how to exploit and validate vulnerabilities by working with various tools and techniques What you will learnGet up to speed with setting up and installing the Metasploit frameworkGain first hand experience of the Metasploit web interfaceUse Metasploit for web application reconnaissanceUnderstand how to pentest various content management systemsPentest platforms such as JBoss Tomcat and JenkinsBecome well versed with fuzzing web applicationsWrite and

automate penetration testing 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

**Building a Pentesting Lab for Wireless Networks** Vyacheslav Fadyushin, Andrey Popov, 2016-03-28 Build your own secure enterprise or home penetration testing lab to dig into the various hacking techniques About This Book Design and build an extendable penetration testing lab with wireless access suitable for home and enterprise use Fill the lab with various components and customize them according to your own needs and skill level Secure your lab from unauthorized access and external attacks Who This Book Is For If you are a beginner or a security professional who wishes to learn to build a home or enterprise lab environment where you can safely practice penetration testing techniques and improve your hacking skills then this book is for you No prior penetration testing experience is required as the lab environment is suitable for various skill levels and is used for a wide range of techniques from basic to advance Whether you are brand new to online learning or you are a seasoned expert you will be able to set up your own hacking playground depending on your tasks What You Will Learn Determine your needs and choose the appropriate lab components for them Build a virtual or hardware lab network Imitate an enterprise network and prepare intentionally vulnerable software and services Secure wired and wireless access to your lab Choose a penetration testing framework according to your needs Arm your own wireless hacking platform Get to know the methods to create a strong defense mechanism for your system In Detail Starting with the basics of wireless networking and its associated risks we will guide you through the stages of creating a penetration testing lab with wireless access and preparing your wireless penetration testing machine This book will guide you through configuring hardware and virtual network devices filling the lab network with applications and security solutions and making it look and work like a real enterprise network The resulting lab protected with WPA Enterprise will let you practice most of the attack techniques used in penetration testing projects Along with a review of penetration testing frameworks this book is also a detailed manual on preparing a platform for wireless penetration testing By the end of this book you will be at the point when you can practice and research without worrying about your lab environment for every task Style and approach This is an easy to follow guide full of hands on examples and recipes Each topic is explained thoroughly and supplies you with the necessary configuration settings You can pick the recipes you want to follow depending on the task you need to perform

Cyber Operations Mike O'Leary, 2015-10-23 Cyber Operations walks you through all the processes to set up defend and attack computer networks This book focuses on networks and real attacks offers extensive coverage of offensive and defensive techniques and is supported by a rich collection of exercises and resources You ll learn how to configure your network from the ground up starting by setting up your virtual test environment with basics like DNS and active directory through common

network services and ending with complex web applications involving web servers and backend databases Key defensive techniques are integrated throughout the exposition You will develop situational awareness of your network and will build a complete defensive infrastructure including log servers network firewalls web application firewalls and intrusion detection systems Of course you cannot truly understand how to defend a network if you do not know how to attack it so you will attack your test systems in a variety of ways beginning with elementary attacks against browsers and culminating with a case study of the compromise of a defended e commerce site The author who has coached his university s cyber defense team three times to the finals of the National Collegiate Cyber Defense Competition provides a practical hands on approach to cyber security

**Practical Web Penetration Testing** Gus Khawaja,2018-06-22 Web Applications are the core of any business today and the need for specialized Application Security experts is increasing these days Using this book you will be able to learn Application Security testing and understand how to analyze a web application conduct a web intrusion test and a network infrastructure test

**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 Hands-On Network Forensics Nipun Jaswal,2019-03-30 Gain basic skills in network forensics and learn how to apply them effectively Key Features Investigate network threats with ease Practice forensics tasks such as intrusion detection network analysis and scanning Learn forensics investigation at the network level Book Description Network forensics is a subset of digital forensics that deals with network attacks and their investigation In the era of network attacks and malware threat it's now more important than ever to have skills to investigate network attacks and vulnerabilities Hands On Network Forensics starts with the core concepts within network forensics including coding networking forensics tools and methodologies for forensic investigations You'll then explore the tools used for network forensics followed by understanding how to apply those tools to a PCAP file and write the accompanying report In addition to this you will understand how statistical flow analysis network enumeration tunneling and encryption and malware detection can be used to investigate your network Towards the end of this book you will discover how network correlation works and how to bring all the information from different types of network devices together By the end of this book you will have gained hands on experience of performing forensics analysis tasks What you will learn Discover and interpret encrypted traffic Learn about various protocols Understand the malware language over wire Gain insights into the most widely used malware Correlate data collected from attacks Develop tools and custom scripts for network forensics automation Who this book is for The book targets incident responders network engineers analysts forensic engineers and network administrators who want to extend their knowledge from the surface to the deep levels of understanding the science behind network protocols critical indicators in an incident and conducting a forensic search over the wire *Mastering Metasploit - Third Edition* Nipun Jaswal,2018 Discover the next level of network defense with the Metasploit framework About 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 resilient 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 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 In Detail 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 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 Downloading the example code for this book You can download the example code files for all Packt books you have

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