

Nipun Jaswal

Foreword by: **Maj. Gen. J.P. Singh**
Shaurya Chakra (Retd.) - Sr. Director, Armitry 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, 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, 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,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 CORTANATest services such as databases SCADA VoIP and mobile devicesAttack the client side with highly advanced pentesting techniquesBypass modern protection mechanisms such as antivirus IDS and firewallsImport public exploits to the Metasploit FrameworkLeverage C and Python programming to effectively evade endpoint protectionWho 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 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 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 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

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

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 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 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

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 will 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

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, 2019-03-01 Know how to set up defend and attack computer networks with this revised and expanded second edition

You will learn to configure your network from the ground up beginning with developing your own private virtual test environment then setting up your own DNS server and AD infrastructure You will continue with more advanced network services web servers and database servers and you will end by building your own web applications servers including WordPress and Joomla Systems from 2011 through 2017 are covered including Windows 7 Windows 8 Windows 10 Windows Server 2012 and Windows Server 2016 as well as a range of Linux distributions including Ubuntu CentOS Mint and OpenSUSE Key defensive techniques are integrated throughout and you will develop situational awareness of your network and 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 You will learn about Metasploit browser attacks privilege escalation pass the hash attacks malware man in the middle attacks database attacks and web application attacks What You ll Learn Construct a testing laboratory to experiment with software and attack techniques Build realistic networks that include active directory file servers databases web servers and web applications such as WordPress and Joomla Manage networks remotely with tools including PowerShell WMI and WinRM Use offensive tools such as Metasploit Mimikatz Veil Burp Suite and John the Ripper Exploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanisms Defend networks by developing operational awareness using auditd and Sysmon to analyze logs and deploying defensive tools such as the Snort intrusion detection system IPFire firewalls and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations e g cybersecurity professionals IT professionals business professionals and students

Hands-On Red Team Tactics
Himanshu Sharma, Harpreet Singh, 2018-09-28 Your one stop guide to learning and implementing Red Team tactics effectively Key Features Target a complex enterprise environment in a Red Team activity Detect threats and respond to them with a real world cyber attack simulation Explore advanced penetration testing tools and techniques Book Description Red Teaming is used to enhance security by performing simulated attacks on an organization in order to detect network and system vulnerabilities Hands On Red Team Tactics starts with an overview of pentesting and Red Teaming before giving you an introduction to few of the latest pentesting tools We will then move on to exploring Metasploit and getting to grips with Armitage Once you have studied the fundamentals you will learn how to use Cobalt Strike and how to set up its team server The book introduces some common lesser known techniques for pivoting and how to pivot over SSH before using Cobalt Strike to pivot This comprehensive guide demonstrates advanced methods of post exploitation using Cobalt Strike and introduces you to Command and Control C2 servers and redirectors All this will help you achieve persistence using beacons and data exfiltration and will also give you the chance to run through the methodology to use Red Team activity tools such as Empire during a Red Team activity on Active Directory and Domain Controller In addition to this you will explore maintaining

persistent access staying untraceable and getting reverse connections over different C2 covert channels By the end of this book you will have learned about advanced penetration testing tools techniques to get reverse shells over encrypted channels and processes for post exploitation What you will learn Get started with red team engagements using lesser known methods Explore intermediate and advanced levels of post exploitation techniques Get acquainted with all the tools and frameworks included in the Metasploit framework Discover the art of getting stealthy access to systems via Red Teaming Understand the concept of redirectors to add further anonymity to your C2 Get to grips with different uncommon techniques for data exfiltration Who this book is for Hands On Red Team Tactics is for you if you are an IT professional pentester security consultant or ethical hacker interested in the IT security domain and wants to go beyond Penetration Testing Prior knowledge of penetration testing is beneficial

Mastering Network Forensics Nipun Jaswal, 2024-02-28 Learn to decode the Cyber Mysteries by Mastering Network Forensics

KEY FEATURES Master all essential network forensics topics with in depth coverage Learn from real world examples and detailed case studies Gain hands on experience with network forensic tools and techniques

DESCRIPTION Network forensics is a rapidly growing field with a high demand for skilled professionals This book provides a comprehensive guide on the subject covering everything from the fundamentals to advanced topics such as malware analysis and cyber attack investigation Written by a seasoned expert with over 15 years of experience this hands on guide includes practical exercises in offensive security Windows internals reverse engineering and cyber forensics The book begins with the basics of network forensics including concepts like digital evidence network traffic analysis and log analysis It teaches you how to identify intrusion attempts mitigate cyber incidents and investigate complex cyber attacks As you progress through the book you will learn more advanced topics such as malware analysis reverse engineering and memory forensics You will also learn how to use network forensics tools and techniques to investigate real world incidents This book concludes with a discussion of the career opportunities available in network forensics and teaches you how to find a job in the field and develop your skills Overall this book is an excellent resource for anyone interested in learning about network forensics

WHAT YOU WILL LEARN Analyze network traffic using protocols and deep packet analysis techniques Explore the realm of wireless forensics and respond to wireless network incidents Decrypt TLS communication to gain visibility into encrypted data Demystify service and protocol abuse and decode exploit kits through simulations Learn automation techniques to streamline network forensics processes Track down malware and investigate ransomware attacks for mitigation

WHO THIS BOOK IS FOR This book is ideal for network security professionals cybersecurity analysts forensic investigators and incident responders seeking to specialize in network forensics

TABLE OF CONTENTS

- 1 Foundations of Network Forensics
- 2 Protocols and Deep Packet Analysis
- 3 Flow Analysis versus Packet Analysis
- 4 Conducting Log Analysis
- 5 Wireless Forensics
- 6 TLS Decryption and Visibility
- 7 Demystifying Covert Channels
- 8 Analyzing Exploit Kits
- 9 Automating Network Forensics
- 10 Backtracking Malware
- 11 Investigating Ransomware Attacks
- 12 Investigating Command and Control

Systems 13 Investigating Attacks on Email Servers 14 Investigating Web Server Attacks *Metasploit Penetration Testing Cookbook - Third Edition* Daniel Teixeira, Abhinav Singh, Monika Agarwal, 2018 Over 100 recipes for penetration testing using Metasploit and virtual machines About This Book 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 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 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 In Detail 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 ho Metasploit Revealed Sagar Rahalkar, Nipun Jaswal, 2017 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

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 Brian Wiley,2017-06-19 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 book 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

Mastering Metasploit Zusman Aronowitz,2024-01-23 In the fast paced and ever evolving landscape of cybersecurity the need for robust penetration testing techniques is paramount Mastering Metasploit A Comprehensive Guide to Cybersecurity Penetration Testing by Zusman Aronowitz stands as an authoritative resource providing a deep dive into the

world of Metasploit a powerful framework widely used for penetration testing ethical hacking and security assessments

Unlocking the Power of Metasploit

Metasploit has established itself as a cornerstone in the toolkit of cybersecurity professionals and this book serves as an indispensable guide for both beginners and seasoned practitioners

Zusman Aronowitz a respected authority in the field distills years of hands on experience into a comprehensive exploration of Metasploit s capabilities equipping readers with the knowledge and skills needed to navigate the complex realm of penetration testing

Key Features of the Book

- Comprehensive Coverage** The book spans a wide array of topics ensuring a holistic understanding of Metasploit s functionalities From the fundamentals to advanced techniques readers are guided through every facet of this powerful framework
- Hands On Examples** Learning by doing is central to the book s approach Practical real world examples and walkthroughs accompany each concept allowing readers to apply their newfound knowledge in simulated environments
- Step by Step Tutorials** Detailed step by step tutorials take readers through the execution of various penetration testing scenarios Whether you re a novice or an experienced professional these tutorials provide actionable insights for honing your skills
- Strategic Insight** Zusman Aronowitz goes beyond the technicalities providing strategic insight into the application of Metasploit in different cybersecurity contexts This includes guidance on creating effective penetration testing strategies and adapting to diverse environments
- Real world Case Studies** The inclusion of real world case studies adds a practical dimension to the book Readers gain valuable insights into how Metasploit has been used to uncover vulnerabilities and strengthen the security postures of actual organizations

In Mastering Metasploit A Comprehensive Guide to Cybersecurity Penetration Testing

Zusman Aronowitz not only demystifies the complexities of Metasploit but also empowers readers to become proficient ethical hackers This SEO friendly book provides a wealth of knowledge that transcends traditional cybersecurity literature In an era where cyber threats are increasingly sophisticated the book serves as a beacon for those looking to fortify digital defenses From learning the basics to mastering advanced penetration testing techniques Zusman Aronowitz s expertise shines through making this book an invaluable asset for cybersecurity enthusiasts IT professionals and anyone seeking to enhance their skills in ethical hacking

Readers will appreciate the clear and concise writing style coupled with engaging examples that bridge the gap between theory and practical application The strategic insights provided ensure that the book is not just a technical manual but a guide for developing a proactive and adaptive cybersecurity mindset

Whether you re a cybersecurity professional aiming to stay ahead of the curve or an aspiring ethical hacker looking to enter this dynamic field Mastering Metasploit is your gateway to a comprehensive understanding of one of the industry s most powerful tools

In conclusion Zusman Aronowitz s Mastering Metasploit is more than a guide it s a roadmap to cybersecurity proficiency Dive into the world of penetration testing with confidence armed with the knowledge and skills needed to navigate the ever changing landscape of cybersecurity

This book delves into Mastering Metasploit Nipun Jaswal. Mastering Metasploit Nipun Jaswal is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mastering Metasploit Nipun Jaswal, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mastering Metasploit Nipun Jaswal
 - Chapter 2: Essential Elements of Mastering Metasploit Nipun Jaswal
 - Chapter 3: Mastering Metasploit Nipun Jaswal in Everyday Life
 - Chapter 4: Mastering Metasploit Nipun Jaswal in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Mastering Metasploit Nipun Jaswal. This chapter will explore what Mastering Metasploit Nipun Jaswal is, why Mastering Metasploit Nipun Jaswal is vital, and how to effectively learn about Mastering Metasploit Nipun Jaswal.
3. In chapter 2, this book will delve into the foundational concepts of Mastering Metasploit Nipun Jaswal. The second chapter will elucidate the essential principles that need to be understood to grasp Mastering Metasploit Nipun Jaswal in its entirety.
4. In chapter 3, the author will examine the practical applications of Mastering Metasploit Nipun Jaswal in daily life. This chapter will showcase real-world examples of how Mastering Metasploit Nipun Jaswal can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Mastering Metasploit Nipun Jaswal in specific contexts. This chapter will explore how Mastering Metasploit Nipun Jaswal is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Mastering Metasploit Nipun Jaswal. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mastering Metasploit Nipun Jaswal.

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Table of Contents Mastering Metasploit Nipun Jaswal

1. Understanding the eBook Mastering Metasploit Nipun Jaswal
 - The Rise of Digital Reading Mastering Metasploit Nipun Jaswal
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Metasploit Nipun Jaswal
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastering Metasploit Nipun Jaswal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Metasploit Nipun Jaswal
 - Personalized Recommendations
 - Mastering Metasploit Nipun Jaswal User Reviews and Ratings
 - Mastering Metasploit Nipun Jaswal and Bestseller Lists
5. Accessing Mastering Metasploit Nipun Jaswal Free and Paid eBooks
 - Mastering Metasploit Nipun Jaswal Public Domain eBooks
 - Mastering Metasploit Nipun Jaswal eBook Subscription Services
 - Mastering Metasploit Nipun Jaswal Budget-Friendly Options
6. Navigating Mastering Metasploit Nipun Jaswal eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Metasploit Nipun Jaswal Compatibility with Devices
 - Mastering Metasploit Nipun Jaswal Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Metasploit Nipun Jaswal
 - Highlighting and Note-Taking Mastering Metasploit Nipun Jaswal
 - Interactive Elements Mastering Metasploit Nipun Jaswal

8. Staying Engaged with Mastering Metasploit Nipun Jaswal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Metasploit Nipun Jaswal
9. Balancing eBooks and Physical Books Mastering Metasploit Nipun Jaswal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Metasploit Nipun Jaswal
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mastering Metasploit Nipun Jaswal
 - Setting Reading Goals Mastering Metasploit Nipun Jaswal
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mastering Metasploit Nipun Jaswal
 - Fact-Checking eBook Content of Mastering Metasploit Nipun Jaswal
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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