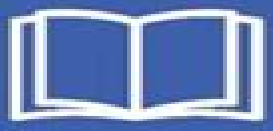
Nipun Jaswal

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



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Mastering Metasploit

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Mastering 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 ofthis book must have a basic knowledge of using Metasploit They are also expected to have knowledge of exploitation and an indepth understanding of object oriented programming languages *Mastering Metasploit* Nipun Jaswal,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** 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,* 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 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

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 **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 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 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 **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 Linux for Cybersecurity: Essential Networking, Scripting, and Kali Tools for Aspiring Hackers* Leticia Boyd,2025-03-31 Unleash your cybersecurity potential with this comprehensive guide to Linux for aspiring hackers Dive into the fundamentals of Linux networking learn to craft powerful scripts and harness the capabilities of Kali Tools to enhance your penetration testing skills This book provides a solid foundation in Linux equipping you with the knowledge and expertise needed to navigate the ever evolving cybersecurity landscape Within its pages you ll discover essential networking concepts from network topologies and protocols to routing and firewalls Master the art of scripting with Bash and Python to automate tasks and enhance your efficiency Explore the vast toolkit of Kali Tools including Nmap Wireshark and Metasploit to conduct vulnerability assessments and exploit weaknesses 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 LEARN METASPLOIT Diego Rodrigues,2025-04-10 This book is a direct

technical guide to the Metasploit Framework the leading penetration testing platform used by offensive security professionals The content presents in a progressive and applied manner everything from environment setup and configuration to advanced techniques in exploitation post exploitation evasion and offensive automation You will learn Full structure of Metasploit and its modules exploit payload auxiliary post Operations with msfconsole msfvenom and integration with Nmap Real world exploitation using exploits like EternalBlue MS17 010 Post exploitation techniques credential harvesting and persistence Lab creation social engineering fuzzing and technical report generation The content is 100% focused on professional practice with an emphasis on controlled labs ethical simulations and operational application in real penetration tests Each chapter follows the TECHWRITE 2 2 protocol prioritizing technical clarity error resolution and execution validated through real world flows Metasploit Framework pentest offensive security vulnerability exploitation post exploitation msfconsole social engineering msfvenom Red Team Python Java Linux Kali HTML ASP NET Ada Assembly BASIC Borland Delphi C C C CSS Cobol Compilers DHTML Fortran General JavaScript LISP PHP Pascal Perl Prolog RPG Ruby SQL Swift UML Elixir Haskell VBScript Visual Basic XHTML XML XSL Django Flask Ruby on Rails Angular React Vue js Node js Laravel Spring Hibernate NET Core Express js TensorFlow PyTorch Jupyter Notebook Keras Bootstrap Foundation jQuery SASS LESS Scala Groovy MATLAB R Objective C Rust Go Kotlin TypeScript Dart SwiftUI Xamarin Nmap Metasploit Wireshark Aircrack ng John the Ripper Burp Suite SQLmap Hydra Maltego Autopsy React Native NumPy Pandas SciPy Matplotlib Seaborn D3 js OpenCV NLTK PySpark BeautifulSoup Scikit learn XGBoost CatBoost LightGBM FastAPI Redis RabbitMQ Kubernetes Docker Jenkins Terraform Ansible Vagrant GitHub GitLab CircleCI Regression Logistic Regression Decision Trees Random Forests chatgpt grok AI ML K Means Clustering Support Vector Machines Gradient Boosting Neural Networks LSTMs CNNs GANs ANDROID IOS MACOS WINDOWS Framework Volatility IDA Pro OllyDbg YARA Snort ClamAV Netcat Tcpdump Foremost Cuckoo Sandbox Fierce HTTrack Kismet Nikto OpenVAS Nessus ZAP Radare2 Binwalk GDB OWASP Amass Dnsenum Dirbuster Wpscan Responder Setoolkit Searchsploit Recon ng BeEF AWS Google Cloud IBM Azure Databricks Nvidia Meta Power BI IoT CI CD Hadoop Spark Dask SQLAlchemy Web Scraping MySQL Big Data Science OpenAI ChatGPT Handler RunOnUiThread Qiskit Q Cassandra Bigtable VIRUS MALWARE Information Pen Test Cybersecurity Linux Distributions Ethical Hacking Vulnerability Analysis System Exploration Wireless Attacks Web Application Security Malware Analysis Social Engineering Social Engineering Toolkit SET Computer Science IT Professionals Careers Expertise Library Training Operating Systems Security Testing Penetration Test Cycle Mobile Techniques Industry Global Trends Tools Network Security Courses Tutorials Challenges Landscape Cloud Threats Compliance Research Technology Flutter Ionic Web Views Capacitor APIs REST GraphQL Firebase Redux Provider Bitrise Actions Material Design Cupertino Fastlane Appium Selenium Jest Visual Studio AR VR deepseek startup digital marketing **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 *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 **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 FeaturesTarget a complex enterprise environment in a Red Team activityDetect threats and respond to them with a real world cyber attack simulationExplore advanced penetration testing tools and techniquesBook 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 learnGet started with red team engagements using lesser known methodsExplore intermediate and advanced levels of post exploitation techniquesGet acquainted with all the tools and frameworks included in the Metasploit frameworkDiscover the art of getting stealthy access to systems via Red TeamingUnderstand the concept of redirectors to add further anonymity to your C2Get to grips with different uncommon techniques for data exfiltrationWho 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 Hands-On AWS Penetration Testing with Kali Linux Karl Gilbert,Benjamin Caudill,2019-04-30 Identify tools and techniques to secure and perform a penetration test on an AWS infrastructure using Kali Linux Key FeaturesEfficiently perform penetration testing techniques on your public cloud instancesLearn not only to cover loopholes but also to automate security monitoring and alerting within your cloud based deployment pipelinesA step by step guide that will help you leverage the most widely used security platform to secure your AWS Cloud environmentBook Description The cloud is taking over the IT industry Any organization housing a large amount of data or a large infrastructure has started moving cloud ward and AWS rules the roost when it comes to cloud service providers with its closest competitor having less than half of its market share This highlights the importance of security on the cloud especially on AWS While a lot has been said and written about how cloud environments can be secured performing external security assessments in the form of pentests on AWS is still seen as a dark art This book aims to help pentesters as well as seasoned system administrators with a hands on approach to pentesting the various cloud services provided by

Amazon through AWS using Kali Linux To make things easier for novice pentesters the book focuses on building a practice lab and refining penetration testing with Kali Linux on the cloud This is helpful not only for beginners but also for pentesters who want to set up a pentesting environment in their private cloud using Kali Linux to perform a white box assessment of their own cloud resources Besides this there is a lot of in depth coverage of the large variety of AWS services that are often overlooked during a pentest from serverless infrastructure to automated deployment pipelines By the end of this book you will be able to identify possible vulnerable areas efficiently and secure your AWS cloud environment What you will learnFamiliarize yourself with and pentest the most common external facing AWS servicesAudit your own infrastructure and identify flaws weaknesses and loopholesDemonstrate the process of lateral and vertical movement through a partially compromised AWS accountMaintain stealth and persistence within a compromised AWS accountMaster a hands on approach to pentestingDiscover a number of automated tools to ease the process of continuously assessing and improving the security stance of an AWS infrastructureWho this book is for If you are a security analyst or a penetration tester and are interested in exploiting Cloud environments to reveal vulnerable areas and secure them then this book is for you A basic understanding of penetration testing cloud computing and its security concepts is mandatory **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 *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 **Certified Ethical Hacker (CEH) Exam Cram** William Easttom II,2022-02-17 Certified Ethical Hacker CEH Exam Cram is the perfect study guide to help you pass the updated CEH Version 11 exam Its expert real world approach reflects Dr Chuck Easttom s expertise as one of the world s leading cybersecurity practitioners and instructors plus test taking insights he has gained from teaching CEH preparation courses worldwide Easttom assumes no prior knowledge His expert coverage of every exam topic can help readers with little ethical hacking experience to obtain the knowledge to succeed This guide s extensive preparation tools include topic overviews exam alerts CramSavers CramQuizzes chapter ending review questions author notes and tips an extensive glossary and the handy CramSheet tear out key facts in an easy to review format This eBook edition of Certified Ethical Hacker CEH Exam Cram

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Mastering Metasploit: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mastering Metasploit : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

Table of Contents Mastering Metasploit

Mastering Metasploit Introduction

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