Kali Linux Revealed Mastering The Penetration Testing Distribution Pdf Pdf

By the end of this book, you will be able to fully utilize the features of Wireshark that will help you securely administer your network.
Kali Linux Revealed 2017-06-05 Raphaël Hertzog Whether you're a veteran or an absolute n00b, this is the best place to start with Kali Linux, the security professional's platform of choice, and a truly industrial-grade, and world-class operating system distribution-mature, secure, and enterprise-ready.

Metasploit 2011-07-15 David Kennedy The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built your foundation for penetration testing, you'll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You'll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: –Find and exploit unmaintained, misconfigured, and unpatched systems –Perform reconnaissance and find valuable information about your target –Bypass anti-virus technologies and circumvent security controls –Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery –Use the Meterpreter shell to launch further attacks from inside the network –Harness standalone Metasploit utilities, third-party tools, and plug-ins –Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond.

Beginning Ethical Hacking with Kali Linux 2018-11-29 Sanjib Sinha Get started in white-hat ethical hacking using Kali Linux. This book starts off by giving you an overview of security trends, where you will learn the OSI security architecture. This will form the foundation for the rest of Beginning Ethical Hacking with Kali Linux. With the theory out of the way, you'll move on to an introduction to VirtualBox, networking, and common Linux commands, followed by the step-by-step procedure to build your own web server and acquire the skill to be anonymous . When you have finished the examples in the first part of your book, you will have all you need to carry out safe and ethical hacking experiments. After an introduction to Kali Linux, you will carry out your first penetration tests with Python and code raw binary packets for use in those tests. You will learn how to find secret directories on a target system, use a TCP client in Python, and scan ports using NMAP. Along the way you will discover effective ways to collect important information, track email, and use important tools such as DMITRY and Maltego, as well as take a look at the five phases of penetration testing. The coverage of vulnerability analysis includes sniffing and spoofing, why ARP poisoning is a threat, how SniffJoke prevents poisoning, how to analyze protocols with Wireshark,

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and using sniffing packets with Scapy. The next part of the book shows you detecting SQL injection vulnerabilities, using sqlmap, and applying brute force or password attacks. Besides learning these tools, you will see how to use OpenVas, Nikto, Vega, and Burp Suite. The book will explain the information assurance model and the hacking framework Metasploit, taking you through important commands, exploit and payload basics. Moving on to hashes and passwords you will learn password testing and hacking techniques with John the Ripper and Rainbow. You will then dive into classic and modern encryption techniques where you will learn the conventional cryptosystem. In the final chapter you will acquire the skill of exploiting remote Windows and Linux systems and you will learn how to own a target completely. What You Will LearnMaster common Linux commands and networking techniques Build your own Kali web server and learn to be anonymous Carry out penetration testing using Python Detect sniffing attacks and SQL injection vulnerabilities Learn tools such as SniffJoke, Wireshark, Scapy, sqlmap, OpenVas, Nikto, and Burp Suite Use Metasploit with Kali Linux Exploit remote Windows and Linux systemsWho This Book Is For Developers new to ethical hacking with a basic understanding of Linux programming.

The Basics of Hacking and Penetration Testing 2013-06-24 Patrick Engebretson The Basics of Hacking and Penetration Testing, Second Edition, serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end. The book teaches students how to properly utilize and interpret the results of the modern-day hacking tools required to complete a penetration test. It provides a simple and clean explanation of how to effectively utilize these tools, along with a four-step methodology for conducting a penetration test or hack, thus equipping students with the know-how required to jump start their careers and gain a better understanding of offensive security. Each chapter contains hands-on examples and exercises that are designed to teach learners how to interpret results and utilize those results in later phases. Tool coverage includes: Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. This is complemented by PowerPoint slides for use in class. This book is an ideal resource for security consultants, beginning InfoSec professionals, and students. Each chapter contains hands-on examples and exercises that are designed to teach you how to interpret the results and utilize those results in later phases. Written by an author who works in the field as a Penetration Tester and who teaches Offensive Security, Penetration Testing, and Ethical Hacking, and Exploitation classes at Dakota State University. Utilizes the Kali Linux distribution and focuses on the seminal tools required to complete a penetration test.

Hands-On Penetration Testing on Windows 2018-07-30 Phil Bramwell Master the art of identifying vulnerabilities within the Windows OS and develop the desired solutions for it using Kali Linux. Key Features Identify the vulnerabilities in your system using Kali Linux 2018.02 Discover the art of exploiting Windows kernel drivers Get to know several bypassing techniques to gain control of your Windows environment Book Description Windows has always been the go-to platform for users around the globe to perform administration and ad hoc tasks, in settings that range from small offices to global enterprises, and this massive footprint makes securing Windows a unique challenge. This book will enable you to distinguish yourself to your clients. In this book, you'll learn advanced techniques to attack Windows environments from the indispensable toolkit that is Kali Linux. We'll work through core network hacking concepts and advanced Windows exploitation techniques, such as stack and heap overflows, precision heap spraying, and kernel exploitation, using coding principles that allow you to leverage powerful Python scripts and shellcode. We'll wrap up with post-exploitation strategies that enable you to go deeper and keep your access. Finally, we'll introduce kernel hacking fundamentals and fuzzing testing, so you can discover vulnerabilities and write custom exploits. By the end of this book, you'll be well-versed in identifying vulnerabilities within the Windows OS and developing the desired solutions for them. What you will learn Get to know advanced pen testing techniques with Kali Linux Gain an

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understanding of Kali Linux tools and methods from behind the scenes See how to use Kali Linux at an advanced level Understand the exploitation of Windows kernel drivers Understand advanced Windows concepts and protections, and how to bypass them using Kali Linux Discover Windows exploitation techniques, such as stack and heap overflows and kernel exploitation, through coding principles Who this book is for This book is for penetration testers, ethical hackers, and individuals breaking into the pentesting role after demonstrating an advanced skill in boot camps. Prior experience with Windows exploitation, Kali Linux, and some Windows debugging tools is necessary

Linux Basics for Hackers 2018-12-04 OccupyTheWeb This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them. Topics include Linux command line basics, filesystems, networking, BASH basics, package management, logging, and the Linux kernel and drivers. If you're getting started along the exciting path of hacking, cybersecurity, and pentesting, Linux Basics for Hackers is an excellent first step. Using Kali Linux, an advanced penetration testing distribution of Linux, you'll learn the basics of using the Linux operating system and acquire the tools and techniques you'll need to take control of a Linux environment. First, you'll learn how to install Kali on a virtual machine and get an introduction to basic Linux concepts. Next, you'll tackle broader Linux topics like manipulating text, controlling file and directory permissions, and managing user environment variables. You'll then focus in on foundational hacking concepts like security and anonymity and learn scripting skills with bash and Python. Practical tutorials and exercises throughout will reinforce and test your skills as you learn how to: - Cover your tracks by changing your network information and manipulating the rsyslog logging utility - Write a tool to scan for network connections, and connect and listen to wireless networks - Keep your internet activity stealthy using Tor, proxy servers, VPNs, and encrypted email - Write a bash script to scan open ports for potential targets - Use and abuse services like MySQL, Apache web server, and OpenSSH - Build your own hacking tools, such as a remote video spy camera and a password cracker Hacking is complex, and there is no single way in. Why not start at the beginning with Linux Basics for Hackers?

Kali Linux Web Penetration Testing Cookbook 2016-02-29 Gilberto Nájera-Gutiérrez Over 80 recipes on how to identify, exploit, and test web application security with Kali Linux 2 About This Book Familiarize yourself with the most common web vulnerabilities a web application faces, and understand how attackers take advantage of them Set up a penetration testing lab to conduct a preliminary assessment of attack surfaces and run exploits Learn how to prevent vulnerabilities in web applications before an attacker can make the most of it Who This Book Is For This book is for IT professionals, web developers, security enthusiasts, and security professionals who want an accessible reference on how to find, exploit, and prevent security vulnerabilities in web applications. You should know the basics of operating a Linux environment and have some exposure to security technologies and tools. What You Will Learn Set up a penetration testing laboratory in a secure way Find out what information is useful to gather when performing penetration tests and where to look for it Use crawlers and spiders to investigate an entire website in minutes Discover security vulnerabilities in web applications in the web browser and using command-line tools Improve your testing efficiency with the use of automated vulnerability scanners Exploit vulnerabilities that require a complex setup, run custom-made exploits, and prepare for extraordinary scenarios Set up Man in the Middle attacks and use them to identify and exploit security flaws within the communication between users and the web server Create a malicious site that will find and exploit vulnerabilities in the user's web browser Repair the most common web vulnerabilities and understand how to prevent them becoming a threat to a site's security In Detail Web applications are a huge point of attack for malicious hackers and a critical area for security professionals and penetration testers to lock down and secure. Kali Linux is a Linux-based penetration testing platform and operating system that provides a huge array of testing tools, many of which can be used specifically to execute web

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penetration testing. This book will teach you, in the form step-by-step recipes, how to detect a wide array of vulnerabilities, exploit them to analyze their consequences, and ultimately buffer attackable surfaces so applications are more secure, for you and your users. Starting from the setup of a testing laboratory, this book will give you the skills you need to cover every stage of a penetration test: from gathering information about the system and the application to identifying vulnerabilities through manual testing and the use of vulnerability scanners to both basic and advanced exploitation techniques that may lead to a full system compromise. Finally, we will put this into the context of OWASP and the top 10 web application vulnerabilities you are most likely to encounter, equipping you with the ability to combat them effectively. By the end of the book, you will have the required skills to identify, exploit, and prevent web application vulnerabilities. Style and approach Taking a recipe-based approach to web security, this book has been designed to cover each stage of a penetration test, with descriptions on how tools work and why certain programming or configuration practices can become security vulnerabilities that may put a whole system, or network, at risk. Each topic is presented as a sequence of tasks and contains a proper explanation of why each task is performed and what it accomplishes.

The Hacker Playbook 2 2015 Peter Kim Just as a professional athlete doesn't show up without a solid game plan, ethical hackers, IT professionals, and security researchers should not be unprepared, either. The Hacker Playbook provides them their own game plans. Written by a longtime security professional and CEO of Secure Planet, LLC, this step-by-step guide to the "game" of penetration hacking features hands-on examples and helpful advice from the top of the field. Through a series of football-style "plays," this straightforward guide gets to the root of many of the roadblocks people may face while penetration testing-including attacking different types of networks, pivoting through security controls, privilege escalation, and evading antivirus software. From "Pregame" research to "The Drive" and "The Lateral Pass," the practical plays listed can be read in order or referenced as needed. Either way, the valuable advice within will put you in the mindset of a penetration tester of a Fortune 500 company, regardless of your career or level of experience. This second version of The Hacker Playbook takes all the best "plays" from the original book and incorporates the latest attacks, tools, and lessons learned. Double the content compared to its predecessor, this guide further outlines building a lab, walks through test cases for attacks, and provides more customized code. Whether you're downing energy drinks while desperately looking for an exploit, or preparing for an exciting new job in IT security, this guide is an essential part of any ethical hacker's library-so there's no reason not to get in the game.

Metasploit Revealed: Secrets of the Expert Pentester 2017-12-05 Sagar Rahalkar 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

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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.

Advanced Penetration Testing 2017-02-27 Wil Allsopp Build a better defense against motivated, organized, professional attacks Advanced Penetration Testing: Hacking the World's Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation. Featuring techniques not taught in any certification prep or covered by common defensive scanners, this book integrates social engineering, programming, and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments. From discovering and creating attack vectors, and moving unseen through a target enterprise, to establishing command and exfiltrating data—even from organizations without a direct Internet connection—this guide contains the crucial techniques that provide a more accurate picture of your system's defense. Custom coding examples use VBA, Windows Scripting Host, C, Java, JavaScript, Flash, and more, with coverage of standard library applications and the use of scanning tools to bypass common defensive measures. Typical penetration testing consists of low-level hackers attacking a system with a list of known vulnerabilities, and defenders preventing those hacks using an equally well-known list of defensive scans. The professional hackers and nation states on the forefront of today's threats operate at a much more complex level—and this book shows you how to defend your high security network. Use targeted social engineering pretexts to create the initial compromise Leave a command and control structure in place for long-term access Escalate privilege and breach networks, operating systems, and trust structures Infiltrate further using harvested credentials while expanding control Today's threats are organized, professionally-run, and very much for-profit. Financial institutions, health care organizations, law enforcement, government agencies, and other high-value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals. Advanced Penetration Testing goes beyond Kali linux and Metasploit and to provide you advanced pen testing for high security networks.

Mastering Kali Linux for Advanced Penetration Testing 2019-01-30 Vijay Kumar Velu A practical guide to testing your infrastructure security with Kali Linux, the preferred choice of pentesters and hackers Key FeaturesEmploy advanced pentesting techniques with Kali Linux to build highly secured systemsDiscover various stealth techniques to remain undetected and defeat modern infrastructuresExplore red teaming techniques to exploit secured environmentBook Description This book takes you, as a tester or security practitioner, through the reconnaissance, vulnerability assessment, exploitation, privilege

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escalation, and post-exploitation activities used by pentesters. To start with, you'll use a laboratory environment to validate tools and techniques, along with an application that supports a collaborative approach for pentesting. You'll then progress to passive reconnaissance with open source intelligence and active reconnaissance of the external and internal infrastructure. You'll also focus on how to select, use, customize, and interpret the results from different vulnerability scanners, followed by examining specific routes to the target, which include bypassing physical security and the exfiltration of data using a variety of techniques. You'll discover concepts such as social engineering, attacking wireless networks, web services, and embedded devices. Once you are confident with these topics, you'll learn the practical aspects of attacking user client systems by backdooring with fileless techniques, followed by focusing on the most vulnerable part of the network – directly attacking the end user. By the end of this book, you'll have explored approaches for carrying out advanced pentesting in tightly secured environments, understood pentesting and hacking techniques employed on embedded peripheral devices. What you will learnConfigure the most effective Kali Linux tools to test infrastructure securityEmploy stealth to avoid detection in the infrastructure being testedRecognize when stealth attacks are being used against your infrastructureExploit networks and data systems using wired and wireless networks as well as web servicesIdentify and download valuable data from target systemsMaintain access to compromised systemsUse social engineering to compromise the weakest part of the network - the end usersWho this book is for This third edition of Mastering Kali Linux for Advanced Penetration Testing is for you if you are a security analyst, pentester, ethical hacker, IT professional, or security consultant wanting to maximize the success of your infrastructure testing using some of the advanced features of Kali Linux. Prior exposure of penetration testing and ethical hacking basics will be helpful in making the most out of this book.

Kali Linux Penetration Testing Bible 2021-04-26 Gus Khawaja Your ultimate guide to pentesting with Kali Linux Kali is a popular and powerful Linux distribution used by cybersecurity professionals around the world. Penetration testers must master Kali’s varied library of tools to be effective at their work. The Kali Linux Penetration Testing Bible is the hands-on and methodology guide for pentesting with Kali. You’ll discover everything you need to know about the tools and techniques hackers use to gain access to systems like yours so you can erect reliable defenses for your virtual assets. Whether you’re new to the field or an established pentester, you’ll find what you need in this comprehensive guide. Build a modern dockerized environment Discover the fundamentals of the bash language in Linux Use a variety of effective techniques to find vulnerabilities (OSINT, Network Scan, and more) Analyze your findings and identify false positives and uncover advanced subjects, like buffer overflow, lateral movement, and privilege escalation Apply practical and efficient pentesting workflows Learn about Modern Web Application Security Secure SDLC Automate your penetration testing with Python

Learning Kali Linux 2018-07-17 Ric Messier With more than 600 security tools in its arsenal, the Kali Linux distribution can be overwhelming. Experienced and aspiring security professionals alike may find it challenging to select the most appropriate tool for conducting a given test. This practical book covers Kali’s expansive security capabilities and helps you identify the tools you need to conduct a wide range of security tests and penetration tests. You’ll also explore the vulnerabilities that make those tests necessary. Author Ric Messier takes you through the foundations of Kali Linux and explains methods for conducting tests on networks, web applications, wireless security, password vulnerability, and more. You’ll discover different techniques for extending Kali tools and creating your own toolset. Learn tools for stress testing network stacks and applications Perform network reconnaissance to determine what’s available to attackers Execute penetration tests using automated exploit tools such as Metasploit Use cracking tools to see if passwords meet complexity requirements Test wireless capabilities by injecting frames and cracking passwords Assess web application vulnerabilities with automated or proxy-based tools Create advanced attack techniques by

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extending Kali tools or developing your own Use Kali Linux to generate reports once testing is complete

Mastering Metasploit, 2018-05-28 Nipun Jaswal 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.

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

Industrial Cybersecurity 2021-10-07 Pascal Ackerman Get up and running with industrial cybersecurity monitoring with this hands-on book, and explore ICS cybersecurity monitoring tasks, activities, tools, and best practices Key Features Architect, design, and build ICS networks with security in mind Perform a variety of security assessments, checks, and verifications Ensure that your security processes are effective, complete, and relevant Book DescriptionWith Industrial Control Systems (ICS) expanding into traditional IT space and even into the cloud, the attack surface of ICS environments has increased significantly, making it crucial to recognize your ICS vulnerabilities and implement advanced techniques for monitoring and defending against rapidly evolving cyber threats to critical infrastructure. This second edition covers the updated Industrial Demilitarized Zone (IDMZ) architecture and shows you how to implement, verify, and monitor a holistic security program for your ICS environment. You'll begin by learning how to design security-oriented architecture that allows you to implement the tools, techniques, and activities covered in this book effectively and easily. You'll get to grips with the monitoring, tracking, and trending (visualizing) and procedures of ICS cybersecurity risks as well as understand the overall security program and posture/hygiene of the ICS environment. The book then introduces you to threat hunting principles, tools, and techniques to help you identify malicious activity successfully. Finally, you'll work with incident response and incident recovery tools and techniques in an ICS environment. By the end of this book, you'll have gained a solid understanding of industrial cybersecurity monitoring, assessments, incident response activities, as

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well as threat hunting.What you will learn Monitor the ICS security posture actively as well as passively Respond to incidents in a controlled and standard way Understand what incident response activities are required in your ICS environment Perform threat-hunting exercises using the Elasticsearch, Logstash, and Kibana (ELK) stack Assess the overall effectiveness of your ICS cybersecurity program Discover tools, techniques, methodologies, and activities to perform risk assessments for your ICS environment Who this book is forIf you are an ICS security professional or anyone curious about ICS cybersecurity for extending, improving, monitoring, and validating your ICS cybersecurity posture, then this book is for you. IT/OT professionals interested in entering the ICS cybersecurity monitoring domain or searching for additional learning material for different industry-leading cybersecurity certifications will also find this book useful.

Mastering Kali Linux for Advanced Penetration Testing 2017-06-30 Vijay Kumar Velu A practical guide to testing your network's security with Kali Linux, the preferred choice of penetration testers and hackers. About This Book Employ advanced pentesting techniques with Kali Linux to build highly-secured systems Get to grips with various stealth techniques to remain undetected and defeat the latest defenses and follow proven approaches Select and configure the most effective tools from Kali Linux to test network security and prepare your business against malicious threats and save costs Who This Book Is For Penetration Testers, IT professional or a security consultant who wants to maximize the success of your network testing using some of the advanced features of Kali Linux, then this book is for you.Some prior exposure to basics of penetration testing/ethical hacking would be helpful in making the most out of this title. What You Will Learn Select and configure the most effective tools from Kali Linux to test network security Employ stealth to avoid detection in the network being tested Recognize when stealth attacks are being used against your network Exploit networks and data systems using wired and wireless networks as well as web services Identify and download valuable data from target systems Maintain access to compromised systems Use social engineering to compromise the weakest part of the network—the end users In Detail This book will take you, as a tester or security practitioner through the journey of reconnaissance, vulnerability assessment, exploitation, and post-exploitation activities used by penetration testers and hackers. We will start off by using a laboratory environment to validate tools and techniques, and using an application that supports a collaborative approach to penetration testing. Further we will get acquainted with passive reconnaissance with open source intelligence and active reconnaissance of the external and internal networks. We will also focus on how to select, use, customize, and interpret the results from a variety of different vulnerability scanners. Specific routes to the target will also be examined, including bypassing physical security and exfiltration of data using different techniques. You will also get to grips with concepts such as social engineering, attacking wireless networks, exploitation of web applications and remote access connections. Later you will learn the practical aspects of attacking user client systems by backdooring executable files. You will focus on the most vulnerable part of the network—directly and bypassing the controls, attacking the end user and maintaining persistence access through social media. You will also explore approaches to carrying out advanced penetration testing in tightly secured environments, and the book's hands-on approach will help you understand everything you need to know during a Red teaming exercise or penetration testing Style and approach An advanced level tutorial that follows a practical approach and proven methods to maintain top notch security of your networks.

Hacking- The art Of Exploitation 2018-03-06 J. Erickson This text introduces the spirit and theory of hacking as well as the science behind it all; it also provides some core techniques and tricks of hacking so you can think like a hacker, write your own hacks or thwart potential system attacks.

Cybersecurity Blue Team Toolkit 2019-04-04 Nadean H. Tanner A practical handbook to cybersecurity for both tech and non-tech professionals As

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reports of major data breaches fill the headlines, it has become impossible for any business, large or small, to ignore the importance of cybersecurity. Most books on the subject, however, are either too specialized for the non-technical professional or too general for positions in the IT trenches. Thanks to author Nadean Tanner's wide array of experience from teaching at a University to working for the Department of Defense, the Cybersecurity Blue Team Toolkit strikes the perfect balance of substantive and accessible, making it equally useful to those in IT or management positions across a variety of industries. This handy guide takes a simple and strategic look at best practices and tools available to both cybersecurity management and hands-on professionals, whether they be new to the field or looking to expand their expertise. Tanner gives comprehensive coverage to such crucial topics as security assessment and configuration, strategies for protection and defense, offensive measures, and remediation while aligning the concept with the right tool using the CIS Controls version 7 as a guide. Readers will learn why and how to use fundamental open source and free tools such as ping, tracert, PuTTY, pathping, sysinternals, NMAP, OpenVAS, Nexpose Community, OSSEC, Hamachi, InSSIDer, Nexpose Community, Wireshark, Solarwinds Kiwi Syslog Server, Metasploit, Burp, Clonezilla and many more. Up-to-date and practical cybersecurity instruction, applicable to both management and technical positions Straightforward explanations of the theory behind cybersecurity best practices Designed to be an easily navigated tool for daily use Includes training appendix on Linux, how to build a virtual lab and glossary of key terms The Cybersecurity Blue Team Toolkit is an excellent resource for anyone working in digital policy as well as IT security professionals, technical analysts, program managers, and Chief Information and Technology Officers. This is one handbook that won't gather dust on the shelf, but remain a valuable reference at any career level, from student to executive.

AWS Penetration Testing 2020-12-04 Jonathan Helmus Get to grips with security assessment, vulnerability exploitation, workload security, and encryption with this guide to ethical hacking and learn to secure your AWS environment Key FeaturesPerform cybersecurity events such as red or blue team activities and functional testingGain an overview and understanding of AWS penetration testing and securityMake the most of your AWS cloud infrastructure by learning about AWS fundamentals and exploring pentesting best practicesBook Description Cloud security has always been treated as the highest priority by AWS while designing a robust cloud infrastructure. AWS has now extended its support to allow users and security experts to perform penetration tests on its environment. This has not only revealed a number of loopholes and brought vulnerable points in their existing system to the fore, but has also opened up opportunities for organizations to build a secure cloud environment. This book teaches you how to perform penetration tests in a controlled AWS environment. You'll begin by performing security assessments of major AWS resources such as Amazon EC2 instances, Amazon S3, Amazon API Gateway, and AWS Lambda. Throughout the course of this book, you'll also learn about specific tests such as exploiting applications, testing permissions flaws, and discovering weak policies. Moving on, you'll discover how to establish private-cloud access through backdoor Lambda functions. As you advance, you'll explore the no-go areas where users can't make changes due to vendor restrictions and find out how you can avoid being flagged to AWS in these cases. Finally, this book will take you through tips and tricks for securing your cloud environment in a professional way. By the end of this penetration testing book, you'll have become well-versed in a variety of ethical hacking techniques for securing your AWS environment against modern cyber threats. What you will learnSet up your AWS account and get well-versed in various pentesting servicesDelve into a variety of cloud pentesting tools and methodologiesDiscover how to exploit vulnerabilities in both AWS and applicationsUnderstand the legality of pentesting and learn how to stay in scopeExplore cloud pentesting best practices, tips, and tricksBecome competent at using tools such as Kali Linux, Metasploit, and NmapGet to grips with post-exploitation procedures and find out how to write pentesting reportsWho this book is for If you are a network engineer, system administrator, or system operator looking to secure your AWS

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environment against external cyberattacks, then this book is for you. Ethical hackers, penetration testers, and security consultants who want to enhance their cloud security skills will also find this book useful. No prior experience in penetration testing is required; however, some understanding of cloud computing or AWS cloud is recommended.

Hands-On Red Team Tactics 2018-09-28 Himanshu Sharma 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.

Android Hacker's Handbook 2014-03-26 Joshua J. Drake The first comprehensive guide to discovering and preventingattacks on the Android OS As the Android operating system continues to increase its shareof the smartphone market, smartphone hacking remains a growingthreat. Written by experts who rank among the world's foremostAndroid security researchers, this book presents vulnerabilitydiscovery, analysis, and exploitation tools for the good guys.Following a detailed explanation of how the Android OS works andits overall security architecture, the authors examine howvulnerabilities can be discovered and exploits developed forvarious system components, preparing you to defend againstthem. If you are a mobile device administrator, security researcher,Android app developer, or consultant responsible for evaluatingAndroid security, you will find this guide is essential to yourtoolbox. A crack team of leading Android security researchers explainAndroid security risks, security design and architecture, rooting,fuzz testing, and vulnerability analysis Covers Android application building blocks and security as wellas debugging and auditing Android apps Prepares mobile device administrators, security researchers,Android app developers, and security consultants to defend Androidsystems against attack Android Hacker's Handbook is the first comprehensiveresource for IT professionals charged with smartphonesecurity.

Mastering Kali Linux for Advanced Penetration Testing 2014-06-24 Robert W. Beggs This book provides an overview of the kill chain approach to

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penetration testing, and then focuses on using Kali Linux to provide examples of how this methodology is applied in the real world. After describing the underlying concepts, step-by-step examples are provided that use selected tools to demonstrate the techniques.If you are an IT professional or a security consultant who wants to maximize the success of your network testing using some of the advanced features of Kali Linux, then this book is for you. This book will teach you how to become an expert in the pre-engagement, management, and documentation of penetration testing by building on your understanding of Kali Linux and wireless concepts.

Virtualization of information object vulnerability testing container based on DeX technology and deep learning neural networks 2022-01-27 Борис Окунев Современное развитие средств обеспечения информационной безопасности, наряду с усовершенствованием методик удаленного доступа, позволяет производить аудит программно-аппаратных компонентов без необходимости прямого доступа к тестируемой системе. В рамках данного направления развития выделяется подход, позволяющий интегрировать дистрибутивы на базе ядра Linux представлением виртуального контейнера chroot в системе на базе Android OS и, как следствие, осуществлять тестирование на проникновение без необходимости использования персональных компьютеров. Примером реализации данного подхода является дистрибутив Kali NetHunter, позволяющий за счет модуля KeX реализовать функционал удаленного администрирования системой. Кроме очевидных преимуществ KeX функционала также следует выделить ряд недостатков – низкая скорость обработки графической оболочки за счет трансляции на удаленных хост и необходимость поддержки трансляции на уровне операционной системы. Вторая проблема – затраты энергоресурсов при использовании возможностей рабочего стола в KeX модуле. Для решения указанных проблем была разработана система виртуализации энергоэффективного контейнера тестирования уязвимостей критически важных информационных объектов, основной принцип действия которой – мультиконтейнеризация. Программная составляющая представлена двумя элементами: модулем интеграции контейнера chroot в среду DeX и модулем обеспечения энергоэффективности за счет использования предиктивных моделей нейронных сетей. В результате сравнения эффективности существующих и реализованного подхода при тестировании на проникновение отмечено, что предлагаемая система может быть использована при тестировании безопасности различных информационных объектов.

Python Ethical Hacking from Scratch 2021-06-25 Fahad Ali Sarwar Explore the world of practical ethical hacking by developing custom network scanning and remote access tools that will help you test the system security of your organization Key Features Get hands-on with ethical hacking and learn to think like a real-life hacker Build practical ethical hacking tools from scratch with the help of real-world examples Leverage Python 3 to develop malware and modify its complexities Book DescriptionPenetration testing enables you to evaluate the security or strength of a computer system, network, or web application that an attacker can exploit. With this book, you'll understand why Python is one of the fastest-growing programming languages for penetration testing. You'll find out how to harness the power of Python and pentesting to enhance your system security. Developers working with Python will be able to put their knowledge and experience to work with this practical guide. Complete with step-by-step explanations of essential concepts and practical examples, this book takes a hands-on approach to help you build your own pentesting tools for testing the security level of systems and networks. You'll learn how to develop your own ethical hacking tools using Python and explore hacking techniques to exploit vulnerabilities in networks and systems. Finally, you'll be able to get remote access to target systems and networks using the tools you develop and modify as per your own requirements. By the end of this ethical hacking book, you'll have developed the skills needed for building cybersecurity tools and learned how to secure your systems by thinking like a hacker.What you

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will learn Understand the core concepts of ethical hacking Develop custom hacking tools from scratch to be used for ethical hacking purposes Discover ways to test the cybersecurity of an organization by bypassing protection schemes Develop attack vectors used in real cybersecurity tests Test the system security of an organization or subject by identifying and exploiting its weaknesses Gain and maintain remote access to target systems Find ways to stay undetected on target systems and local networks Who this book is forIf you want to learn ethical hacking by developing your own tools instead of just using the prebuilt tools, this book is for you. A solid understanding of fundamental Python concepts is expected. Some complex Python concepts are explained in the book, but the goal is to teach ethical hacking, not Python.

Kali Linux Wireless Penetration Testing Essentials 2015-07-30 Marco Alamanni Kali Linux is the most popular distribution dedicated to penetration testing that includes a set of free, open source tools. This book introduces you to wireless penetration testing and describes how to conduct its various phases. After showing you how to install Kali Linux on your laptop, you will verify the requirements of the wireless adapter and configure it. Next, the book covers the wireless LAN reconnaissance phase, explains the WEP and WPA/WPA2 security protocols and demonstrates practical attacks against them using the tools provided in Kali Linux, Aircrack-ng in particular. You will then discover the advanced and latest attacks targeting access points and wireless clients and learn how to create a professionally written and effective report.

Mastering Linux Administration 2021-06-18 Alexandru Calcatinge Develop advanced skills for working with Linux systems on-premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem, packages, users, processes, and daemonsDeploy Linux to the cloud with AWS, Azure, and KubernetesBook Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command line and how to work with files, packages, and filesystems. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. You'll also learn how to deploy Linux to the cloud using AWS and Azure. By the end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem, network, security, and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux, AppArmor, and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you. Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book.

CEH Certified Ethical Hacker Study Guide 2010-06-03 Kimberly Graves Full Coverage of All Exam Objectives for the CEH Exams 312-50 and EC0-350 Thoroughly prepare for the challenging CEH Certified Ethical Hackers exam with this comprehensive study guide. The book provides full

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coverage of exam topics, real-world examples, and includes a CD with chapter review questions, two full-length practice exams, electronic flashcards, a glossary of key terms, and the entire book in a searchable pdf e-book. What's Inside: Covers ethics and legal issues, footprinting, scanning, enumeration, system hacking, trojans and backdoors, sniffers, denial of service, social engineering, session hijacking, hacking Web servers, Web application vulnerabilities, and more Walks you through exam topics and includes plenty of real-world scenarios to help reinforce concepts Includes a CD with an assessment test, review questions, practice exams, electronic flashcards, and the entire book in a searchable pdf

C, C++, Java, Python, PHP, JavaScript and Linux For Beginners 2020-04-13 Manjunath.R "An Introduction to Programming Languages and Operating Systems for Novice Coders" An ideal addition to your personal elibrary. With the aid of this indispensable reference book, you may quickly gain a grasp of Python, Java, JavaScript, C, C++, CSS, Data Science, HTML, LINUX and PHP. It can be challenging to understand the programming language's distinctive advantages and charms. Many programmers who are familiar with a variety of languages frequently approach them from a constrained perspective rather than enjoying their full expressivity. Some programmers incorrectly use Programmatic features, which can later result in serious issues. The programmatic method of writing programs—the ideal approach to use programming languages—is explained in this book. This book is for all programmers, whether you are a novice or an experienced pro. Its numerous examples and well paced discussions will be especially beneficial for beginners. Those who are already familiar with programming will probably gain more from this book, of course. I want you to be prepared to use programming to make a big difference. "C, C++, Java, Python, PHP, JavaScript and Linux For Beginners" is a comprehensive guide to programming languages and operating systems for those who are new to the world of coding. This easy-to-follow book is designed to help readers learn the basics of programming and Linux operating system, and to gain confidence in their coding abilities. With clear and concise explanations, readers will be introduced to the fundamental concepts of programming languages such as C, C++, Java, Python, PHP, and JavaScript, as well as the basics of the Linux operating system. The book offers step-by-step guidance on how to write and execute code, along with practical exercises that help reinforce learning. Whether you are a student or a professional, "C, C++, Java, Python, PHP, JavaScript and Linux For Beginners" provides a solid foundation in programming and operating systems. By the end of this book, readers will have a solid understanding of the core concepts of programming and Linux, and will be equipped with the knowledge and skills to continue learning and exploring the exciting world of coding.

Linux Commands, C, C++, Java and Python Exercises For Beginners 2020-03-27 Manjunath.R "Hands-On Practice for Learning Linux and Programming Languages from Scratch" Are you new to Linux and programming? Do you want to learn Linux commands and programming languages like C, C++, Java, and Python but don't know where to start? Look no further! An approachable manual for new and experienced programmers that introduces the programming languages C, C++, Java, and Python. This book is for all programmers, whether you are a novice or an experienced pro. It is designed for an introductory course that provides beginning engineering and computer science students with a solid foundation in the fundamental concepts of computer programming. In this comprehensive guide, you will learn the essential Linux commands that every beginner should know, as well as gain practical experience with programming exercises in C, C++, Java, and Python. It also offers valuable perspectives on important computing concepts through the development of programming and problem-solving skills using the languages C, C++, Java, and Python. The beginner will find its carefully paced exercises especially helpful. Of course, those who are already familiar with programming are likely to derive more benefits from this book. After reading this book you will find yourself at a moderate level of expertise in C, C++, Java and Python, from which you can take yourself to the next levels. The command-line interface is one of the nearly all well

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built trademarks of Linux. There exists an ocean of Linux commands, permitting you to do nearly everything you can be under the impression of doing on your Linux operating system. However, this, at the end of time, creates a problem: because of all of so copious commands accessible to manage, you don't comprehend where and at which point to fly and learn them, especially when you are a learner. If you are facing this problem, and are peering for a painless method to begin your command line journey in Linux, you've come to the right place-as in this book, we will launch you to a hold of well liked and helpful Linux commands. This book gives a thorough introduction to the C, C++, Java, and Python programming languages, covering everything from fundamentals to advanced concepts. It also includes various exercises that let you put what you learn to use in the real world. With step-by-step instructions and plenty of examples, you'll build your knowledge and confidence in Linux and programming as you progress through the exercises. By the end of the book, you'll have a solid foundation in Linux commands and programming concepts, allowing you to take your skills to the next level. Whether you're a student, aspiring programmer, or curious hobbyist, this book is the perfect resource to start your journey into the exciting world of Linux and programming!

Hands-On Network Forensics 2019-03-30 Nipun Jaswal Gain basic skills in network forensics and learn how to apply them effectively Key FeaturesInvestigate network threats with easePractice forensics tasks such as intrusion detection, network analysis, and scanningLearn forensics investigation at the network levelBook Description Network forensics is a subset of digital forensics that deals with network attacks and their investigation. In the era of network attacks and malware threat, it’s now more important than ever to have skills to investigate network attacks and vulnerabilities. Hands-On Network Forensics starts with the core concepts within network forensics, including coding, networking, forensics tools, and methodologies for forensic investigations. You’ll then explore the tools used for network forensics, followed by understanding how to apply those tools to a PCAP file and write the accompanying report. In addition to this, you will understand how statistical flow analysis, network enumeration, tunneling and encryption, and malware detection can be used to investigate your network. Towards the end of this book, you will discover how network correlation works and how to bring all the information from different types of network devices together. By the end of this book, you will have gained hands-on experience of performing forensics analysis tasks. What you will learnDiscover and interpret encrypted trafficLearn about various protocolsUnderstand the malware language over wireGain insights into the most widely used malwareCorrelate data collected from attacksDevelop tools and custom scripts for network forensics automationWho 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.

Advances in Design, Simulation and Manufacturing V 2022-05-24 Vitalii Ivanov This book reports on topics at the interface between manufacturing and materials engineering, with a special emphasis on smart and sustainable manufacturing. It describes innovative research in design engineering and manufacturing technology, covering the development and characterization of advanced materials alike. It also discusses key aspects related to ICT in engineering education. Based on the 5th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2022), held on June 7-10, 2022, in Poznan, Poland, this first volume of a 2-volume set provides academics and professionals with extensive information on trends and technologies, and challenges and practice-oriented experience in all the above-mentioned areas.

Reversing 2011-12-12 Eldad Eilam Beginning with a basic primer on reverse engineering-including computer internals, operating systems, and assembly language-and then discussing the various applications of

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reverse engineering, this book provides readers with practical, in-depth techniques for software reverse engineering. The book is broken into two parts, the first deals with security-related reverse engineering and the second explores the more practical aspects of reverse engineering. In addition, the author explains how to reverse engineer a third-party software library to improve interfacing and how to reverse engineer a competitor's software to build a better product. * The first popular book to show how software reverse engineering can help defend against security threats, speed up development, and unlock the secrets of competitive products * Helps developers plug security holes by demonstrating how hackers exploit reverse engineering techniques to crack copy-protection schemes and identify software targets for viruses and other malware * Offers a primer on advanced reverse-engineering, delving into "disassembly"-code-level reverse engineering-and explaining how to decipher assembly language

Web Penetration Testing with Kali Linux 2013-09-25 Joseph Muniz Web Penetration Testing with Kali Linux contains various penetration testing methods using BackTrack that will be used by the reader. It contains clear step-by-step instructions with lot of screenshots. It is written in an easy to understand language which will further simplify the understanding for the user."Web Penetration Testing with Kali Linux" is ideal for anyone who is interested in learning how to become a penetration tester. It will also help the users who are new to Kali Linux and want to learn the features and differences in Kali versus Backtrack, and seasoned penetration testers who may need a refresher or reference on new tools and techniques. Basic familiarity with web-based programming languages such as PHP, JavaScript and MySQL will also prove helpful.

Learn Social Engineering 2018-04-30 Dr. Erdal Ozkaya Improve information security by learning Social Engineering. Key Features Learn to implement information security using social engineering Get hands-on experience of using different tools such as Kali Linux, the Social Engineering toolkit and so on Practical approach towards learning social engineering, for IT security Book Description This book will provide you with a holistic understanding of social engineering. It will help you to avoid and combat social engineering attacks by giving you a detailed insight into how a social engineer operates. Learn Social Engineering starts by giving you a grounding in the different types of social engineering attacks,and the damages they cause. It then sets up the lab environment to use different toolS and then perform social engineering steps such as information gathering. The book covers topics from baiting, phishing, and spear phishing, to pretexting and scareware. By the end of the book, you will be in a position to protect yourself and your systems from social engineering threats and attacks. All in all, the book covers social engineering from A to Z , along with excerpts from many world wide known security experts. What you will learn Learn to implement information security using social engineering Learn social engineering for IT security Understand the role of social media in social engineering Get acquainted with Practical Human hacking skills Learn to think like a social engineer Learn to beat a social engineer Who this book is for This book targets security professionals, security analysts, penetration testers, or any stakeholder working with information security who wants to learn how to use social engineering techniques. Prior knowledge of Kali Linux is an added advantage

Hacking APIs 2022-07-12 Corey J. Ball Hacking APIs is a crash course in web API security testing that will prepare you to penetration-test APIs, reap high rewards on bug bounty programs, and make your own APIs more secure. Hacking APIs is a crash course on web API security testing that will prepare you to penetration-test APIs, reap high rewards on bug bounty programs, and make your own APIs more secure. You'll learn how REST and GraphQL APIs work in the wild and set up a streamlined API testing lab with Burp Suite and Postman. Then you'll master tools useful for reconnaissance, endpoint analysis, and fuzzing, such as Kiterunner and OWASP Amass. Next, you'll learn to perform common attacks, like those targeting an API's authentication mechanisms and the injection vulnerabilities commonly found in web applications. You'll also learn

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techniques for bypassing protections against these attacks. In the book's nine guided labs, which target intentionally vulnerable APIs, you'll practice: Enumerating APIs users and endpoints using fuzzing techniques Using Postman to discover an excessive data exposure vulnerability Performing a JSON Web Token attack against an API authentication process Combining multiple API attack techniques to perform a NoSQL injection Attacking a GraphQL API to uncover a broken object level authorization vulnerability By the end of the book, you'll be prepared to uncover those high-payout API bugs other hackers aren't finding and improve the security of applications on the web.

Kali Linux Wireless Penetration Testing: Beginner's Guide 2015-03-30 Vivek Ramachandran If you are a security professional, pentester, or anyone interested in getting to grips with wireless penetration testing, this is the book for you. Some familiarity with Kali Linux and wireless concepts is beneficial.

Mastering Metasploit 2020-06-12 Nipun Jaswal 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.

Cyber Operations 2015-10-23 Mike O'Leary Cyber Operations walks you through all the processes to set up, defend, and attack computer networks. This book focuses on networks and real attacks, offers extensive coverage of offensive and defensive techniques, and is supported by a rich collection of exercises and resources. You'll learn how to configure your network from the ground up, starting by setting up your virtual test environment with basics like DNS and active directory, through common network services, and ending with complex web applications involving web servers and backend databases. Key defensive techniques are integrated throughout the exposition. You will develop situational awareness of your network and will build a complete defensive

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infrastructure—including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways beginning with elementary attacks against browsers and culminating with a case study of the compromise of a defended e-commerce site. The author, who has coached his university's cyber defense team three times to the finals of the National Collegiate Cyber Defense Competition, provides a practical, hands-on approach to cyber security.

Wireshark Network Security 2015-07-29 Piyush Verma Wireshark is the world's foremost network protocol analyzer for network analysis and troubleshooting. This book will walk you through exploring and harnessing the vast potential of Wireshark, the world's foremost network protocol analyzer. The book begins by introducing you to the foundations of Wireshark and showing you how to browse the numerous features it provides. You'll be walked through using these features to detect and analyze the different types of attacks that can occur on a network. As you progress through the chapters of this book, you'll learn to perform sniffing on a network, analyze clear-text traffic on the wire, recognize botnet threats, and analyze Layer 2 and Layer 3 attacks along with other common hacks. By the end of this book, you will be able to fully utilize the features of Wireshark that will help you securely administer your network.

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INTRODUCTION Kali Linux Revealed Mastering The Penetration Testing Distribution Pdf

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Liberation kali linux revealed mastering the penetration testing

Village of Kinvara, where rolling hills met the embrace of the Atlantic, a young girl named Saoirse OMalley discovered the rhythm of life in the melodic lullabies of the Irish winds. Little did she know that these winds would carry her dreams beyond the shores of Galway, shaping the extraordinary life that would become her legacy.

Fight kali linux revealed mastering the penetration testing

bookshelves where countless tales compete for recognition, "Harmonys Embrace" by the prodigious storyteller Harmony Melody has resonated with readers on a frequency that transcends the ordinary. The symphony of praise, encapsulated in the form of stellar ratings, heralds Melody as a virtuoso of storytelling.

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