Metasploit Penetration Testers David Kennedy

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Advanced Penetration Testing for Highly-Secured Environments - Lee Allen 2016-03-29

Employ the most advanced pentesting techniques and tools to build highly-secured systems and environments About This Book Learn how to build your own pentesting lab environment to practice advanced techniques Customize your own scripts, and learn methods to exploit 32-bit and 64-bit programs Explore a vast variety of stealth techniques to bypass a number of protections when penetration testing Who This Book Is For This book is for anyone who wants to improve their skills in penetration testing. As it follows a step-by-step approach, anyone from a novice to an experienced security tester can learn effective techniques to deal with highly secured environments. Whether you are brand new or a seasoned expert, this book will provide you with the skills you need to successfully create, customize, and plan an advanced penetration test. What You Will Learn A step-by-step methodology to identify and penetrate secured environments Get to know the process to test network services across enterprise architecture when defences are in place Grasp different web application testing

methods and how to identify web application protections that are deployed Understand a variety of concepts to exploit software Gain proven post-exploitation techniques to exfiltrate data from the target Get to grips with various stealth techniques to remain undetected and defeat the latest defences Be the first to find out the latest methods to bypass firewalls Follow proven approaches to record and save the data from tests for analysis In Detail The defences continue to improve and become more and more common, but this book will provide you with a number or proven techniques to defeat the latest defences on the networks. The methods and techniques contained will provide you with a powerful arsenal of best practices to increase your penetration testing successes. The processes and methodology will provide you techniques that will enable you to be successful, and the step by step instructions of information gathering and intelligence will allow you to gather the required information on the targets you are testing. The exploitation and post-exploitation sections will supply you with the tools you would need to go as far as the scope of work will allow you. The challenges at the end of each chapter are designed to challenge you and provide real-world situations that will hone and perfect your penetration testing skills. You will start with a review of several well respected penetration testing methodologies, and following this you will learn a step-by-step methodology of professional security testing, including stealth, methods of evasion, and obfuscation to perform your tests and not be detected! The final challenge will allow you to create your own complex layered architecture with defences and protections in place, and provide the ultimate testing range for you to practice the methods shown throughout the book. The challenge is as close to an actual penetration test assignment as you can get! Style and approach The book follows the standard penetration testing stages from start to finish with step-by-step examples. The book thoroughly covers penetration test expectations, proper scoping and planning, as well as enumeration and foot printing

Unauthorised Access - Wil Allsopp 2010-03-25

The first guide to planning and performing a physical penetration test on your computer's security Most IT security teams concentrate on keeping networks and systems safe from attacks from the outside-but what if your attacker was on the inside? While nearly all IT teams perform a

variety of network and application penetration testing procedures, an audit and test of the physical location has not been as prevalent. IT teams are now increasingly requesting physical penetration tests, but there is little available in terms of training. The goal of the test is to demonstrate any deficiencies in operating procedures concerning physical security. Featuring a Foreword written by world-renowned hacker Kevin D. Mitnick and lead author of The Art of Intrusion and The Art of Deception, this book is the first guide to planning and performing a physical penetration test. Inside, IT security expert Wil Allsopp guides you through the entire process from gathering intelligence, getting inside, dealing with threats, staying hidden (often in plain sight), and getting access to networks and data. Teaches IT security teams how to break into their own facility in order to defend against such attacks, which is often overlooked by IT security teams but is of critical importance Deals with intelligence gathering, such as getting access building blueprints and satellite imagery, hacking security cameras, planting bugs, and eavesdropping on security channels Includes safeguards for consultants paid to probe facilities unbeknown to staff Covers preparing the report and presenting it to management In order to defend data, you need to think like a thief-let Unauthorised Access show you how to get inside.

Metasploit - David Kennedy 2011-07-15

The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built your foundation for penetration testing, you'll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You'll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: –Find and exploit unmaintained, misconfigured, and unpatched systems –Perform reconnaissance and find valuable information about your target –Bypass anti-virus technologies and circumvent

security controls -Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery -Use the Meterpreter shell to launch further attacks from inside the network -Harness standalone Metasploit utilities, third-party tools, and plug-ins -Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond.

Penetration Testing with Raspberry Pi - Michael McPhee 2016-11-30

Learn the art of building a low-cost, portable hacking arsenal using Raspberry Pi 3 and Kali Linux 2 About This Book Quickly turn your Raspberry Pi 3 into a low-cost hacking tool using Kali Linux 2 Protect your confidential data by deftly preventing various network security attacks Use Raspberry Pi 3 as honeypots to warn you that hackers are on your wire Who This Book Is For If you are a computer enthusiast who wants to learn advanced hacking techniques using the Raspberry Pi 3 as your pentesting toolbox, then this book is for you. Prior knowledge of networking and Linux would be an advantage. What You Will Learn Install and tune Kali Linux 2 on a Raspberry Pi 3 for hacking Learn how to store and offload pentest data from the Raspberry Pi 3 Plan and perform man-in-the-middle attacks and bypass advanced encryption techniques Compromise systems using various exploits and tools using Kali Linux 2 Bypass security defenses and remove data off a target network Develop a command and control system to manage remotely placed Raspberry Pis Turn a Raspberry Pi 3 into a honeypot to capture sensitive information In Detail This book will show you how to utilize the latest credit card sized Raspberry Pi 3 and create a portable, low-cost hacking tool using Kali Linux 2. You'll begin by installing and tuning Kali Linux 2 on Raspberry Pi 3 and then get started with penetration testing. You will be exposed to various network security scenarios such as wireless security, scanning network packets in order to detect any issues in the network, and capturing sensitive data. You will also learn how to plan and perform various attacks such as man-in-the-middle, password cracking, bypassing SSL encryption, compromising systems using various toolkits, and many

more. Finally, you'll see how to bypass security defenses and avoid detection, turn your Pi 3 into a honeypot, and develop a command and control system to manage a remotely-placed Raspberry Pi 3. By the end of this book you will be able to turn Raspberry Pi 3 into a hacking arsenal to leverage the most popular open source toolkit, Kali Linux 2.0. Style and approach This concise and fast-paced guide will ensure you get hands-on with penetration testing right from the start. You will quickly install the powerful Kali Linux 2 on your Raspberry Pi 3 and then learn how to use and conduct fundamental penetration techniques and attacks.

The Basics of Hacking and Penetration Testing - Patrick Engebretson 2013-06-24

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.

Black Hat Python - Justin Seitz 2014-12-21

When it comes to creating powerful and effective hacking tools, Python is the language of choice for most security

analysts. But just how does the magic happen? In Black Hat Python, the latest from Justin Seitz (author of the best-selling Gray Hat Python), you'll explore the darker side of Python's capabilities—writing network sniffers, manipulating packets, infecting virtual machines, creating stealthy trojans, and more. You'll learn how to: –Create a trojan command-and-control using GitHub –Detect sandboxing and automate common malware tasks, like keylogging and screenshotting –Escalate Windows privileges with creative process control –Use offensive memory forensics tricks to retrieve password hashes and inject shellcode into a virtual machine –Extend the popular Burp Suite web-hacking tool –Abuse Windows COM automation to perform a man-in-the-browser attack –Exfiltrate data from a network most sneakily Insider techniques and creative challenges throughout show you how to extend the hacks and how to write your own exploits. When it comes to offensive security, your ability to create powerful tools on the fly is indispensable. Learn how in Black Hat Python. Uses Python 2

Mastering Kali Linux for Advanced Penetration Testing - Robert W. Beggs 2014-06-24

This book provides an overview of the kill chain approach to 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.

Kali Linux - An Ethical Hacker's Cookbook - Himanshu Sharma 2017-10-17

Over 120 recipes to perform advanced penetration testing with Kali Linux About This Book Practical recipes to conduct effective penetration testing using the powerful Kali Linux Leverage tools like Metasploit, Wireshark, Nmap, and many more to detect vulnerabilities with ease Confidently perform networking and application attacks using task-oriented recipes Who This Book Is For This book is aimed at IT security professionals, pentesters, and security analysts

who have basic knowledge of Kali Linux and want to conduct advanced penetration testing techniques. What You Will Learn Installing, setting up and customizing Kali for pentesting on multiple platforms Pentesting routers and embedded devices Bug hunting 2017 Pwning and escalating through corporate network Buffer overflows 101 Auditing wireless networks Fiddling around with software-defned radio Hacking on the run with NetHunter Writing good quality reports In Detail With the current rate of hacking, it is very important to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2016.2) according to your needs, and move on to core functionalities. This book will start with the installation and configuration of Kali Linux so that you can perform your tests. You will learn how to plan attack strategies and perform web application exploitation using tools such as Burp, and Jexboss. You will also learn how to perform network exploitation using Metasploit, Sparta, and Wireshark. Next, you will perform wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng. Lastly, you will learn how to create an optimum quality pentest report! By the end of this book, you will know how to conduct advanced penetration testing thanks to the book's crisp and task-oriented recipes. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques to perform penetration testing with Kali Linux.

Privacy in the Age of Big Data - Theresa Payton 2014-01-16

Digital data collection and surveillance is pervasive and no one can protect your privacy without your help. Before you can help yourself, you need to understand the new technologies, what benefits they provide, and what trade-offs they require. Some of those trade-offs – privacy for convenience – could be softened by our own behavior or be reduced by legislation if we fight for it. This book analyzes why privacy is important to all of us, and it describes the technologies that place your privacy most at risk, starting with modern computing and the Internet.

The Hacker Playbook 2 - Peter Kim 2015

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.

Black Hat Python, 2nd Edition - Justin Seitz 2021-04-13

Fully-updated for Python 3, the second edition of this worldwide bestseller (over 100,000 copies sold) explores the stealthier side of programming and brings you all new strategies for your hacking projects. When it comes to creating powerful and effective hacking tools, Python is the language of choice for most security analysts. In Black Hat Python, 2nd Edition, you'll explore the darker side of Python's capabilities—writing network sniffers, stealing email credentials, brute forcing directories, crafting mutation fuzzers, infecting virtual machines, creating stealthy trojans, and more. The second edition of this bestselling hacking book contains code updated for the latest version of Python 3, as well as new techniques that reflect current industry best practices. You'll also find expanded explanations of Python libraries such as ctypes, struct, lxml, and BeautifulSoup, and dig deeper into strategies, from splitting bytes to leveraging computer-vision libraries, that

you can apply to future hacking projects. You'll learn how to: • Create a trojan command-and-control using GitHub • Detect sandboxing and automate common malware tasks, like keylogging and screenshotting • Escalate Windows privileges with creative process control • Use offensive memory forensics tricks to retrieve password hashes and inject shellcode into a virtual machine • Extend the popular Burp Suite web-hacking tool • Abuse Windows COM automation to perform a man-in-the-browser attack • Exfiltrate data from a network most sneakily When it comes to offensive security, your ability to create powerful tools on the fly is indispensable. Learn how with the second edition of Black Hat Python. New to this edition: All Python code has been updated to cover Python 3 and includes updated libraries used in current Python applications. Additionally, there are more in-depth explanations of the code and the programming techniques have been updated to current, common tactics. Examples of new material that you'll learn include how to sniff network traffic, evade anti-virus software, brute-force web applications, and set up a command-and-control (C2) system using GitHub.

Nmap Network Scanning - Gordon Lyon 2008

The official guide to the Nmap Security Scanner, a free and open source utility used by millions of people, suits all levels of security and networking professionals.

The The Complete Metasploit Guide - Sagar Rahalkar 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.

Quick Start Guide to Penetration Testing - Sagar Rahalkar 2018-11-29

Get started with NMAP, OpenVAS, and Metasploit in this short book and understand how NMAP, OpenVAS, and Metasploit can be integrated with each other for greater flexibility and efficiency. You will begin by working with NMAP and ZENMAP and learning the basic scanning and enumeration process. After getting to know the differences between TCP and UDP scans, you will learn to fine tune your scans and efficiently use NMAP scripts. This will be followed by an introduction to OpenVAS vulnerability management system. You will then learn to configure OpenVAS and scan for and report vulnerabilities. The next chapter takes you on a detailed tour of Metasploit and its basic commands and configuration. You will then invoke NMAP and OpenVAS scans from Metasploit. Lastly, you will take a look at scanning services with Metasploit and get to know more about Meterpreter, an advanced, dynamically extensible payload that is extended over the network at runtime. The final part of the book concludes by pentesting a system in a real-world scenario, where you will

apply the skills you have learnt. What You Will Learn Carry out basic scanning with NMAPInvoke NMAP from Python Use vulnerability scanning and reporting with OpenVAS Master common commands in Metasploit Who This Book Is For Readers new to penetration testing who would like to get a quick start on it.

The Hacker Playbook - Peter Kim 2014

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, 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. 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.

Hacking- The art Of Exploitation - J. Erickson 2018-03-06

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.

Metasploit Revealed: Secrets of the Expert Pentester - Sagar Rahalkar 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.

Attack and Defend Computer Security Set - Dafydd Stuttard 2014-03-17

Defend your networks and data from attack with this unique two-book security set The Attack and Defend Computer Security Set is a two-book set comprised of the bestselling second edition of Web Application Hacker's Handbook and Malware Analyst's Cookbook. This special security bundle combines coverage of the two most crucial tactics used to defend networks, applications, and data from attack while giving security professionals insight into the underlying details of these attacks themselves. The Web Application Hacker's Handbook takes a broad look at web application security and exposes the steps a hacker can take to attack an application, while providing information on how the application can defend itself. Fully updated for the latest security trends and threats, this guide covers remoting frameworks, HTML5, and cross-domain integration techniques along with clickjacking, framebusting, HTTP parameter pollution, XML external entity injection, hybrid file attacks, and more. The Malware Analyst's Cookbook includes a book and DVD and is designed to enhance the analytical capabilities of anyone who works with malware. Whether you're tracking a Trojan across networks, performing an in-depth binary analysis, or inspecting a machine for potential infections, the recipes in this book will help you go beyond the basic tools for tackling security challenges to cover how to extend your favorite tools or build your own from scratch using C, Python, and Perl source code. The companion DVD features all the files needed to work through the recipes in the book and to complete reverse-engineering challenges along the way. The Attack and Defend Computer Security Set gives your organization the security tools needed to sound the alarm and stand your ground against malicious threats lurking online.

Penetration Testing - Georgia Weidman 2014-06-14

Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications.

Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In Penetration Testing, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine–based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to: –Crack passwords and wireless network keys with brute-forcing and wordlists –Test web applications for vulnerabilities –Use the Metasploit Framework to launch exploits and write your own Metasploit modules –Automate social-engineering attacks –Bypass antivirus software –Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.

Linux Pocket Guide - Daniel J. Barrett 2004-02-18

O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages.Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it.The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the

information applies to any Linux system.Throw in a host of valuable power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux users.

The Pentester BluePrint - Phillip L. Wylie 2020-10-27

JUMPSTART YOUR NEW AND EXCITING CAREER AS A PENETRATION TESTER The Pentester BluePrint: Your Guide to Being a Pentester offers readers a chance to delve deeply into the world of the ethical, or "white-hat" hacker. Accomplished pentester and author Phillip L. Wylie and cybersecurity researcher Kim Crawley walk you through the basic and advanced topics necessary to understand how to make a career out of finding vulnerabilities in systems, networks, and applications. You'll learn about the role of a penetration tester, what a pentest involves, and the prerequisite knowledge you'll need to start the educational journey of becoming a pentester. Discover how to develop a plan by assessing your current skillset and finding a starting place to begin growing your knowledge and skills. Finally, find out how to become employed as a pentester by using social media, networking strategies, and community involvement. Perfect for IT workers and entry-level information security professionals, The Pentester BluePrint also belongs on the bookshelves of anyone seeking to transition to the exciting and in-demand field of penetration testing. Written in a highly approachable and accessible style, The Pentester BluePrint avoids unnecessarily technical lingo in favor of concrete advice and practical strategies to help you get your start in pentesting. This book will teach you: The foundations of pentesting, including basic IT skills like operating systems, networking, and security systems The development of hacking skills and a hacker mindset Where to find educational options, including college and university classes, security training providers, volunteer work, and self-study Which certifications and degrees are most useful for gaining employment as a pentester How to get experience in the pentesting field, including labs, CTFs, and bug bounties

Cybersecurity Blue Team Toolkit - Nadean H. Tanner 2019-04-04

A practical handbook to cybersecurity for both tech and non-tech professionals As 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.

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.

Violent Python - TJ O'Connor 2012-12-28

Violent Python shows you how to move from a theoretical understanding of offensive computing concepts to a practical implementation. Instead of relying on another attacker's tools, this book will teach you to forge your own weapons using the Python programming language. This book demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts. It also shows how to write code to intercept and analyze network traffic using Python, craft and spoof wireless frames to attack wireless and Bluetooth devices, and how to data-mine popular social media websites and evade modern anti-virus. Demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts Write code to intercept and analyze network traffic using Python. Craft and spoof wireless frames to attack wireless and Bluetooth devices Data-mine popular social media websites and evade modern anti-virus

Metasploit Penetration Testing Cookbook - Abhinav Singh 2012-06-22

Over 80 recipes to master the most widely used penetration testing framework.

Metasploit Penetration Testing Cookbook - Monika Agarwal 2013-10-25

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

Ethical Hacking and Penetration Testing Guide - Rafay Baloch 2017-09-29

Requiring no prior hacking experience, Ethical Hacking and Penetration Testing Guide supplies a complete introduction to the steps required to complete a penetration test, or ethical hack, from beginning to end. You will learn how to properly utilize and interpret the results of modern-day hacking tools, which are required to complete a penetration test. The book covers a wide range of tools, including Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. Supplying a simple and

clean explanation of how to effectively utilize these tools, it details a four-step methodology for conducting an effective penetration test or hack.Providing an accessible introduction to penetration testing and hacking, the book supplies you with a fundamental understanding of offensive security. After completing the book you will be prepared to take on in-depth and advanced topics in hacking and penetration testing. The book walks you through each of the steps and tools in a structured, orderly manner allowing you to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process will allow you to clearly see how the various tools and phases relate to each other. An ideal resource for those who want to learn about ethical hacking but dont know where to start, this book will help take your hacking skills to the next level. The topics described in this book comply with international standards and with what is being taught in international certifications.

The Web Application Hacker's Handbook - Dafydd Stuttard 2011-03-16

This book is a practical guide to discovering and exploiting security flaws in web applications. The authors explain each category of vulnerability using real-world examples, screen shots and code extracts. The book is extremely practical in focus, and describes in detail the steps involved in detecting and exploiting each kind of security weakness found within a variety of applications such as online banking, e-commerce and other web applications. The topics covered include bypassing login mechanisms, injecting code, exploiting logic flaws and compromising other users. Because every web application is different, attacking them entails bringing to bear various general principles, techniques and experience in an imaginative way. The most successful hackers go beyond this, and find ways to automate their bespoke attacks. This handbook describes a proven methodology that combines the virtues of human intelligence and computerized brute force, often with devastating results. The authors are professional penetration testers who have been involved in web application security for nearly a decade. They have presented training courses at the Black Hat security conferences throughout the world. Under the alias "PortSwigger", Dafydd developed the popular Burp Suite of web application hack tools.

Kerberos - Jason Garman 2003

Kerberos, the single sign-on authentication system originally

developed at MIT, deserves its name. It's a faithful watchdog that keeps intruders out of your networks. But it has been equally fierce to system administrators, for whom the complexity of Kerberos is legendary. Single sign-on is the holy grail of network administration, and Kerberos is the only game in town. Microsoft, by integrating Kerberos into Active Directory in Windows 2000 and 2003, has extended the reach of Kerberos to all networks large or small. Kerberos makes your network more secure and more convenient for users by providing a single authentication system that works across the entire network. One username; one password; one login is all you need. Fortunately, help for administrators is on the way. Kerberos: The Definitive Guide shows you how to implement Kerberos for secure authentication. In addition to covering the basic principles behind cryptographic authentication, it covers everything from basic installation to advanced topics like cross-realm authentication, defending against attacks on Kerberos, and troubleshooting. In addition to covering Microsoft's Active Directory implementation, Kerberos: The Definitive Guide covers both major implementations of Kerberos for Unix and Linux: MIT and Heimdal. It shows you how to set up Mac OS X as a Kerberos client. The book also covers both versions of the Kerberos protocol that are still in use: Kerberos 4 (now obsolete) and Kerberos 5, paying special attention to the integration between the different protocols, and between Unix and Windows implementations. If you've been avoiding Kerberos because it's confusing and poorly documented, it's time to get on board! This book shows you how to put Kerberos authentication to work on your Windows and Unix systems.

Hacker Methodology Handbook - Thomas Bobeck 2018-11-14

This handbook is the perfect starting place for anyone who wants to jump into the world of penetration testing but doesn't know where to start. This book covers every phase of the hacker methodology and what tools to use in each phase. The tools in this book are all open source or already present on Windows and Linux systems. Covered is the basics usage of the tools, examples, options used with the tools, as well as any notes about possible side effects of using a specific tool.

Backtrack 5 Wireless Penetration Testing - Vivek Ramachandran 2011

Written in Packt's Beginner's Guide format, you can easily grasp the concepts and understand the

techniques to perform wireless attacks in your lab. Every new attack is described in the form of a lab exercise with rich illustrations of all the steps associated. You will practically implement various attacks as you go along. If you are an IT security professional or a security consultant who wants to get started with wireless testing with Backtrack, or just plain inquisitive about wireless security and hacking, then this book is for you. The book assumes that you have familiarity with Backtrack and basic wireless concepts.

Metasploit for Beginners - Sagar Rahalkar 2017-07-21

An easy to digest practical guide to Metasploit covering all aspects of the framework from installation, configuration, and vulnerability hunting to advanced client side attacks and anti-forensics. About This Book Carry out penetration testing in highly-secured environments with Metasploit Learn to bypass different defenses to gain access into different systems. A step-by-step guide that will quickly enhance your penetration testing skills. Who This Book Is For If you are a penetration tester, ethical hacker, or security consultant who wants to quickly learn the Metasploit framework to carry out elementary penetration testing in highly secured environments then, this book is for you. 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 Set up the Metasploit environment along with your own virtual testing lab Use Metasploit for information gathering and enumeration before planning the blueprint for the attack on the target system Get your hands dirty by firing up Metasploit in your own virtual lab and hunt down real vulnerabilities Discover the clever features of the Metasploit framework for launching sophisticated and deceptive client-side attacks that bypass the perimeter security Leverage Metasploit capabilities to perform Web application security scanning In Detail This book will begin by introducing you to Metasploit and its functionality. Next, 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 used by Metasploit. Further on in the book, you will learn how to find weaknesses in the target system and hunt for vulnerabilities using Metasploit

and its supporting tools. Next, you'll get hands-on experience carrying out client-side attacks. Moving on, you'll learn about web application security scanning and bypassing anti-virus and clearing traces on the target system post compromise. This book will also keep you updated with the latest security techniques and methods that can be directly applied to scan, test, hack, and secure networks and systems with Metasploit. By the end of this book, you'll get the hang of bypassing different defenses, after which you'll learn how hackers use the network to gain access into different systems. Style and approach This tutorial is packed with step-by-step instructions that are useful for those getting started with Metasploit. This is an easy-to-read guide to learning Metasploit from scratch that explains simply and clearly all you need to know to use this essential IT power tool.

A Complete Guide to Burp Suite - Sagar Rahalkar 2020-11-07

Use this comprehensive guide to learn the practical aspects of Burp Suite—from the basics to more advanced topics. The book goes beyond the standard OWASP Top 10 and also covers security testing of APIs and mobile apps. Burp Suite is a simple, yet powerful, tool used for application security testing. It is widely used for manual application security testing of web applications plus APIs and mobile apps. The book starts with the basics and shows you how to set up a testing environment. It covers basic building blocks and takes you on an in-depth tour of its various components such as intruder, repeater, decoder, comparer, and sequencer. It also takes you through other useful features such as infiltrator, collaborator, scanner, and extender. And it teaches you how to use Burp Suite for API and mobile app security testing. What You Will Learn Understand various components of Burp Suite Configure the tool for the most efficient use Exploit real-world web vulnerabilities using Burp Suite Extend the tool with useful add-ons Who This Book Is For Those with a keen interest in web application security testing, API security testing, mobile application security testing, and bug bounty hunting; and quality analysis and development team members who are part of the secure Software Development Lifecycle (SDLC) and want to quickly determine application vulnerabilities using Burp Suite

Wireshark for Security Professionals - Jessey Bullock 2017-03-20

Master Wireshark to solve real-world security problems If you

don't already use Wireshark for a wide range of information security tasks, you will after this book. Mature and powerful, Wireshark is commonly used to find root cause of challenging network issues. This book extends that power to information security professionals, complete with a downloadable, virtual lab environment. Wireshark for Security Professionals covers both offensive and defensive concepts that can be applied to essentially any InfoSec role. Whether into network security, malware analysis, intrusion detection, or penetration testing, this book demonstrates Wireshark through relevant and useful examples. Master Wireshark through both lab scenarios and exercises. Early in the book, a virtual lab environment is provided for the purpose of getting hands-on experience with Wireshark. Wireshark is combined with two popular platforms: Kali, the security-focused Linux distribution, and the Metasploit Framework, the open-source framework for security testing. Lab-based virtual systems generate network traffic for analysis, investigation and demonstration. In addition to following along with the labs you will be challenged with end-of-chapter exercises to expand on covered material. Lastly, this book explores Wireshark with Lua, the light-weight programming language. Lua allows you to extend and customize Wireshark's features for your needs as a security professional. Lua source code is available both in the book and online. Lua code and lab source code are available online through GitHub, which the book also introduces. The book's final two chapters greatly draw on Lua and TShark, the command-line interface of Wireshark. By the end of the book you will gain the following: Master the basics of Wireshark Explore the virtual w4sp-lab environment that mimics a real-world network Gain experience using the Debian-based Kali OS among other systems Understand the technical details behind network attacks Execute exploitation and grasp offensive and defensive activities, exploring them through Wireshark Employ Lua to extend Wireshark features and create useful scripts To sum up, the book content, labs and online material, coupled with many referenced sources of PCAP traces, together present a dynamic and robust manual for information security professionals seeking to leverage Wireshark.

Linux Basics for Hackers - OccupyTheWeb 2018-12-04

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?

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.

Metasploit - David Kennedy 2011-07-15

The Metasploit Framework makes discovering, exploiting, and sharing vulnerabilities quick and relatively painless. But while Metasploit is used by security professionals everywhere, the tool can be hard to grasp for first-time users. Metasploit: The Penetration Tester's Guide fills this gap by teaching you how to harness the Framework and interact with the vibrant community of Metasploit contributors. Once you've built

your foundation for penetration testing, you'll learn the Framework's conventions, interfaces, and module system as you launch simulated attacks. You'll move on to advanced penetration testing techniques, including network reconnaissance and enumeration, client-side attacks, wireless attacks, and targeted social-engineering attacks. Learn how to: –Find and exploit unmaintained, misconfigured, and unpatched systems –Perform reconnaissance and find valuable information about your target –Bypass anti-virus technologies and circumvent security controls –Integrate Nmap, NeXpose, and Nessus with Metasploit to automate discovery –Use the Meterpreter shell to launch further attacks from inside the network –Harness standalone Metasploit utilities, third-party tools, and plug-ins –Learn how to write your own Meterpreter post exploitation modules and scripts You'll even touch on exploit discovery for zero-day research, write a fuzzer, port existing exploits into the Framework, and learn how to cover your tracks. Whether your goal is to secure your own networks or to put someone else's to the test, Metasploit: The Penetration Tester's Guide will take you there and beyond.

Penetration Testing with the Bash shell - Keith Makan 2014-05-26

An easy-to-understand, step-by-step practical guide that shows you how to use the Linux Bash terminal tools to solve information security problems. If you are a penetration tester, system administrator, or developer who would like an enriching and practical introduction to the Bash shell and Kali Linux command-line-based tools, this is the book for you.

Web Security Testing Cookbook - Paco Hope 2009-05-15

Offering developers an inexpensive way to include testing as part of the development cycle, this cookbook features scores of recipes for testing Web applications, from relatively simple solutions to complex ones that combine several solutions.

Advanced Penetration Testing for Highly-Secured Environments, Second Edition - Lee Allen 2016-03-29

Employ the most advanced pentesting techniques and tools to build highly-secured systems and environmentsAbout This Book- Learn how to build your own pentesting lab environment to practice advanced techniques- Customize your own scripts, and learn methods to exploit 32-bit and 64-bit programs- Explore a vast variety of stealth techniques to bypass a number of protections when penetration

testingWho This Book Is ForThis book is for anyone who wants to improve their skills in penetration testing. As it follows a step-by-step approach, anyone from a novice to an experienced security tester can learn effective techniques to deal with highly secured environments.Whether you are brand new or a seasoned expert, this book will provide you with the skills you need to successfully create, customize, and plan an advanced penetration test.What You Will Learn- A step-by-step methodology to identify and penetrate secured environments- Get to know the process to test network services across enterprise architecture when defences are in place- Grasp different web application testing methods and how to identify web application protections that are deployed- Understand a variety of concepts to exploit software- Gain proven post-exploitation techniques to exfiltrate data from the target- Get to grips with various stealth techniques to remain undetected and defeat the latest defences- Be the first to find out the latest methods to bypass firewalls- Follow proven approaches to record and save the data from tests for analysisIn DetailThe defences continue to improve and become more and more common, but this book will provide you with a number or proven techniques to defeat the latest defences on the networks. The methods and techniques contained will provide you with a powerful arsenal of best practices to increase your penetration testing successes.The processes and methodology will provide you techniques that will enable you to be successful, and the step by step instructions of information gathering and intelligence will allow you to gather the required information on the targets you are testing. The exploitation and post-exploitation sections will supply you with the tools you would need to go as far as the scope of work will allow you. The challenges at the end of each chapter are designed to challenge you and provide real-world situations that will hone and perfect your penetration testing skills. You will start with a review of several well respected penetration testing methodologies, and following this you will learn a step-by-step methodology of professional security testing, including stealth, methods of evasion, and obfuscation to perform your tests and not be detected!The final challenge will allow you to create your own complex layered architecture with defences and protections in place, and provide the ultimate testing range for you to practice the methods shown throughout the

book. The challenge is as close to an actual penetration test assignment as you can get!Style and approachThe book follows the standard penetration testing stages from start to finish with step-by-step examples. The book thoroughly covers penetration test expectations, proper scoping and planning, as well as enumeration and foot printing