Hacking Mit Metasploit Das Umfassende Handbuch Zu

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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.

Click Here to Kill Everybody: Security and Survival in a Hyper-connected World Bruce Schneier 2018-09-04 A world of "smart" devices means the Internet can kill people. We need to act. Now. Everything is a computer. Ovens are computers that make things hot; refrigerators are computers that keep things cold. These computers—from home thermostats to chemical plants—are all online. The Internet, once a virtual abstraction, can now sense and touch the physical world. As we open our lives to this future, often called the Internet of Things, we are beginning to see its enormous potential in ideas like driverless cars, smart cities, and personal agents equipped with their own behavioral algorithms. But every knife cuts two ways. All computers can be hacked. And Internet-connected computers are the most vulnerable. Forget data theft: cutting-edge digital attackers can now crash your car, your pacemaker, and the nation’s power grid. In Click Here to Kill Everybody, renowned expert and best-selling author Bruce Schneier examines the hidden risks of this new reality. After exploring the full implications of a world populated by hyperconnected devices, Schneier reveals the hidden web of technical, political, and market forces that underpin the pervasive insecurities of today. He then offers common-sense choices for companies, governments, and individuals that can allow us to enjoy the

benefits of this omnipotent age without falling prey to its vulnerabilities. From principles for a more resilient Internet of Things, to a recipe for sane government regulation and oversight, to a better way to understand a truly new environment, Schneier's vision is required reading for anyone invested in human flourishing.

Java All-in-One For Dummies Doug Lowe 2017-05-01 Your one-stop guide to programming with Java If you've always wanted to program with Java but didn't know where to start, this will be the java-stained reference you'll turn to again and again. Fully updated for the JDK 9, this deep reference on the world's most popular programming language is the perfect starting point for building things with Java—and an invaluable ongoing reference as you continue to deepen your knowledge. Clocking in at over 900 pages, Java All-in-One For Dummies takes the intimidation out of learning Java and offers clear, step-by-step guidance on how to download and install Java tools; work with variables, numbers, expressions, statements, loops, methods, and exceptions; create applets, servlets, and JavaServer pages; handle and organize data; and so much more. Focuses on the vital information that enables you to get up and running quickly with Java Provides details on the new features of JDK 9 Shows you how to create simple Swing programs Includes design tips on layout, buttons, and labels Everything you need to know to program with Java is included in this practical, easy-to-use guide!

Clean Craftsmanship Robert Martin 2021 In Clean Craftsmanship , the legendary Robert C. Martin ("Uncle Bob") has written every programmer's definitive guide to working well. Martin brings together the disciplines, standards, and ethics you need to deliver robust, effective code quickly and productively, and be proud of all the software you write -- every single day. Martin, the best-selling author of The Clean Coder , begins with a pragmatic, technical, and prescriptive guide to five foundational disciplines of software craftsmanship: test-driven development, refactoring, simple design, collaborative programming (pairing), and acceptance tests. Next, he moves up to standards -- outlining the baseline expectations the world has of software developers, illuminating how those often differ from their own perspectives, and helping you repair the mismatch. Finally, he turns to the ethics of the programming profession, describing ten fundamental promises all software developers should make to their colleagues, their users, and above all, themselves . With Martin's guidance and advice, you can consistently write code that builds trust instead of undermining it -- trust among your users and throughout a society that depends on software for its very survival.

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.

Cybersecurity For Dummies Joseph Steinberg 2019-10-15 Protect your business and family against cyber attacks Cybersecurity is the protection against the unauthorized or criminal use of electronic data and the practice of ensuring the integrity, confidentiality, and availability of information. Being "cyber-secure" means that a person or organization has both protected itself against attacks by cyber criminals and other online scoundrels, and ensured that it has the ability to recover if it is attacked. If keeping your business or your family safe from cybersecurity threats is on your to-do list, Cybersecurity For Dummies will introduce you to the basics of becoming cyber-secure! You'll learn what threats exist, and how to identify, protect against, detect, and respond to these threats, as well as how to recover if you have been breached! The who and why of cybersecurity threats Basic cybersecurity concepts What to do to be cyber-secure Cybersecurity careers What to think about to stay cybersecure in the future Now is the time to identify vulnerabilities that may make you a victim of cyber-crime — and to defend yourself before it is too late.

SQL Injection Attacks and Defense Justin Clarke 2012 What is SQL injection? -- Testing for SQL injection -- Reviewing code for SQL injection -- Exploiting SQL injection -- Blind SQL injection exploitation -- Exploiting the operating system -- Advanced topics -- Code-level defenses -- Platform level defenses -- Confirming and recovering from SQL injection attacks -- References.

Social Engineering Christopher Hadnagy 2010-11-29 The first book to reveal and dissect the technical aspect of many social engineering maneuvers From elicitation, pretexting, influence and manipulation all aspects of social engineering are picked apart, discussed and explained by using real world examples, personal experience and the science behind them to unraveled the mystery in social engineering. Kevin Mitnick—one of the most famous social engineers in the world—popularized the term "social engineering." He explained that it is much easier to trick someone into revealing a password for a system than to exert the effort of hacking into the system. Mitnick claims that this social engineering tactic was the single-most effective method in his arsenal. This indispensable book examines a variety of maneuvers that are aimed at deceiving unsuspecting victims, while it also addresses ways to prevent social engineering threats. Examines social engineering, the science of influencing a target to perform a desired task or divulge information Arms you with invaluable information about the many methods of trickery that hackers use in order to gather information with the intent of executing identity theft, fraud, or gaining computer system access Reveals vital steps for preventing social engineering threats Social Engineering: The Art of Human Hacking does its part to prepare you against nefarious hackers—now you can do your part by putting to good use the critical information within its pages.

Hacking im Web 2.0 Tim Philipp Schäfers 2018-09-10 Der Erfolg des E-Commerce hat auch seine Schattenseiten: Hackerangriffe im Web gehören inzwischen zum Alltag. Es geht dabei nicht nur um unsichere Firewalls oder Fehler in Betriebssystemen, häufig stellt die selbst programmierte Webapplikation das größte Einfallstor dar. Um sich vor Hackern zu schützen, ist es wichtig, wie ein Hacker zu denken. In diesem Buch lernen Sie die häufigsten Angriffsmethoden kennen und erhalten Tipps, wie Sie sich dagegen schützen können. Analysieren Sie Ihren Programmcode auf Schwachstellen und schließen Sie die Lücken gleich in der Implementierungsphase. Die wichtigsten Angriffsvektoren Durch die Kombination verschiedenster Technologien wie Browser, HTML, JavaScript, PHP, Java und SQL in Webanwendungen sind die potenziellen Schwachstellen quasi unzählbar. Ob SQL-Injection, Cross-Site-Scripting oder Session-Hijacking: Lernen Sie die Funktionsweise dieser Angriffe kennen, stellen Sie Ihr Können beim Angreifen der Testumgebung unter Beweis und schützen Sie sich mit den

aufgeführten Tipps erfolgreich vor Angriffen. Werkzeuge kennen und nutzen Entwickler sind keine Sicherheitsexperten und können nicht jede Schwachstelle der eingesetzten Programmiersprache und Bibliotheken kennen. Umso wichtiger ist es, die entstandene Webanwendung auf ihre Schwachpunkte zu testen. Schäfers stellt in einem ausführlichen Anhang zahlreiche Werkzeuge vor, mit denen Sie effektiv nach Schwachstellen suchen können.

Mastering Linux Security and Hardening Donald A. Tevault 2020-02-21 A comprehensive guide to securing your Linux system against cyberattacks and intruders Key FeaturesDeliver a system that reduces the risk of being hackedExplore a variety of advanced Linux security techniques with the help of hands-on labsMaster the art of securing a Linux environment with this end-to-end practical guideBook Description From creating networks and servers to automating the entire working environment, Linux has been extremely popular with system administrators for the last couple of decades. However, security has always been a major concern. With limited resources available in the Linux security domain, this book will be an invaluable guide in helping you get your Linux systems properly secured. Complete with in-depth explanations of essential concepts, practical examples, and self-assessment questions, this book begins by helping you set up a practice lab environment and takes you through the core functionalities of securing Linux. You'll practice various Linux hardening techniques and advance to setting up a locked-down Linux server. As you progress, you will also learn how to create user accounts with appropriate privilege levels, protect sensitive data by setting permissions and encryption, and configure a firewall. The book will help you set up mandatory access control, system auditing, security profiles, and kernel hardening, and finally cover best practices and troubleshooting techniques to secure your Linux environment efficiently. By the end of this Linux security book, you will be able to confidently set up a Linux server that will be much harder for malicious actors to compromise. What you will learnCreate locked-down user accounts with strong passwordsConfigure firewalls with iptables, UFW, nftables, and firewalldProtect your data with different encryption technologiesHarden the secure shell service to prevent security break-insUse mandatory access control to protect against system exploitsHarden kernel parameters and set up a kernel-level auditing systemApply OpenSCAP security profiles and set up intrusion detectionConfigure securely the GRUB 2 bootloader and BIOS/UEFIWho this book is for This book is for Linux administrators, system administrators, and network engineers interested in securing moderate to complex Linux environments. Security consultants looking to enhance their Linux security skills will also find this book useful. Working experience with the Linux command line and package management is necessary to understand the concepts covered in this book.

Hackers Beware Eric Cole 2002 Explains how and why hackers break into computers, steal information, and deny services to machines' legitimate users, and discusses strategies and tools used by hackers and how to defend against them.

FORTNITE (Official): Outfits Epic Games 2019-07-30 From the fun to the fearsome, discover the best Outfits in the ONLY official collectors' guide from Epic Games, including exclusive concept art and insights from legendary gamers and featuring the authentic Fortnite holographic seal. What do you have in your locker? Keep track of your Outfits and find new favorites in the only official collectors' guide from Epic Games! You'll be able to: KEEP TRACK OF YOUR FAVORITES: Look back on Fortnite's most popular Outfits and make note of the rare ones you might have missed in the first seven seasons! PEEK BEHIND THE SCENES: Learn the stories behind your favorite Outfits and admire Epic's exclusive concept art! HEAR FROM THE LEGENDS THEMSELVES: Find out what well-known gamers think of your favorite Outfits. BE COOL AND CUSTOMIZE: Discover all of the contrails, gliders, harvesting tools, and back bling you need to complete your look! Whether you choose to be Wild Card or Whiplash,

Beef Boss or Burnout, your look says a lot about you--so take one last look in the mirror and LET'S GO!

PTFM Tim Bryant 2021-01-16 Red teams can show flaws that exist in your network before they are compromised by malicious actors and blue teams traditionally assess current security measures and identify security flaws. The teams can provide valuable feedback to each other, but this is often overlooked, enter the purple team. The purple team allows for the integration of red team tactics and blue team security measures. The purple team field manual is a manual for all security professionals and integrates red and blue team methodologies.

The Hardware Hacking Handbook Jasper van Woudenberg 2021-12-21 The Hardware Hacking Handbook takes you deep inside embedded devices to show how different kinds of attacks work, then guides you through each hack on real hardware. Embedded devices are chip-size microcomputers small enough to be included in the structure of the object they control, and they're everywhere—in phones, cars, credit cards, laptops, medical equipment, even critical infrastructure. This means understanding their security is critical. The Hardware Hacking Handbook takes you deep inside different types of embedded systems, revealing the designs, components, security limits, and reverse-engineering challenges you need to know for executing effective hardware attacks. Written with wit and infused with hands-on lab experiments, this handbook puts you in the role of an attacker interested in breaking security to do good. Starting with a crash course on the architecture of embedded devices, threat modeling, and attack trees, you'll go on to explore hardware interfaces, ports and communication protocols, electrical signaling, tips for analyzing firmware images, and more. Along the way, you'll use a home testing lab to perform fault-injection, side-channel (SCA), and simple and differential power analysis (SPA/DPA) attacks on a variety of real devices, such as a crypto wallet. The authors also share insights into real-life attacks on embedded systems, including Sony's PlayStation 3, the Xbox 360, and Philips Hue lights, and provide an appendix of the equipment needed for your hardware hacking lab – like a multimeter and an oscilloscope – with options for every type of budget. You'll learn: How to model security threats, using attacker profiles, assets, objectives, and countermeasures Electrical basics that will help you understand communication interfaces, signaling, and measurement How to identify injection points for executing clock, voltage, electromagnetic, laser, and body-biasing fault attacks, as well as practical injection tips How to use timing and power analysis attacks to extract passwords and cryptographic keys Techniques for leveling up both simple and differential power analysis, from practical measurement tips to filtering, processing, and visualization Whether you're an industry engineer tasked with understanding these attacks, a student starting out in the field, or an electronics hobbyist curious about replicating existing work, The Hardware Hacking Handbook is an indispensable resource – one you'll always want to have onhand.

WLAN Hacking Tim Philipp Schäfers 2018-01-10 Drahtlose Netzwerke sind heute allgegenwärtig und werden im Zuge von Entwicklungen wie dem "Smart Home" und dem "Internet of Things" in Zukunft eine noch wichtigere Schlüsselrolle bei der Informationsvermittlung spielen. Folglich steht und fällt die Zuverlässigkeit unserer Infrastruktur nicht zuletzt mit der Sicherheit von WLAN-Technologien. Das Buch vermittelt seinen Leserinnen und Lesern das nötige Wissen, um WLAN-Umgebungen wirksam gegen Angriffe abzusichern. Zahlreiche praxisnahe Beispiele helfen sowohl Anfängern als auch Fortgeschrittenen dabei, verschiedene Angriffsszenarien nachzuvollziehen, um sich effektiv vor Hackern schützen zu können. Vom Auskundschaften einer WLAN-Umgebung bis zur Umgehung von Authentifizierungsverfahren geben die Autoren einen umfassenden Einblick in alle gängigen Angriffswege auf drahtlose Datenübertragungstechnologien. Rechtliche und gesellschaftliche Aspekte wie Störerhaftung und Freifunk runden das Buch ab und machen es zu einem unverzichtbaren Lern- und Nachschlagewerk für alle, denen die Sicherheit ihrer Funknetze am Herzen liegt.

Linux für Anfänger - der leichte Einstieg / Mit praktischen Anleitungen für Anfänger + 140 Terminal-Befehle Eugen Keterling Wollen Sie in Zukunft mit einem zuverlässigen UND kostenlosen Betriebssystem arbeiten? Dann ist GNU/Linux das richtige System für Sie! Vergessen Sie Zwangs-Updates, überteuerte Lizensen, langsame oder abstüzende Systeme. Das alles gehört der Vergangenheit an, wenn Sie sich für Linux entscheiden. Die Zahl der Linux-Nutzer nimmt stätig zu. Kein Wunder, bei der Schnelligkeit, Sicherheit und Stabilität. In diesem Buch bekommen Sie alle Informationen, die Sie für den erfolgreichen Einstieg in Linux brauchen. Auch Nicht-Computer-Experten können den Umgang mit Linux schnell lernen. Dieses Buch wurde für Anfänger geschrieben und ist wie eine große Schritt-für-Schritt-Anleitung aufgebaut. Hier lernen Sie: -Was Linux ist -Wie Sie das richtige Linux für sich wählen + Vorstellung von Distributionen -Wie Sie Linux installieren -Die ersten Schritte nach der Installation -Wie Sie sich in Linux einarbeiten Als Zusatz lernen Sie: -Virtuelle Maschinen einzurichten -Windows Programme in Linux zu benutzen -Über 140 Befehle für das Terminal Fangen Sie noch heute an!

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

Hacking Your Education Dale J. Stephens 2013-03-05 It's no secret that college doesn't prepare students for the real world. Student loan debt recently eclipsed credit card debt for the first time in history and now tops one trillion dollars. And the throngs of unemployed graduates chasing the same jobs makes us wonder whether there's a better way to "make it" in today's marketplace. There is—and Dale Stephens is proof of that. In Hacking Your Education, Stephens speaks to a new culture of "hackademics" who think college diplomas are antiquated. Stephens shows how he and dozens of others have hacked their education, and how you can, too. You don't need to be a genius or especially motivated to succeed outside school. The real requirements are much simpler: curiosity, confidence, and grit. Hacking Your Education offers valuable advice to current students as well as those who decided to skip college. Stephens teaches you to create opportunities for yourself and design your curriculum—inside or outside the classroom. Whether your dream is to travel the world, build a startup, or climb the corporate ladder, Stephens proves you can do it now, rather than waiting for life to start after "graduation" day.

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?

The Art of Invisibility Kevin Mitnick 2019-09-10 Real-world advice on how to be invisible online from "the FBI's most-wanted hacker" (Wired) Your every step online is being tracked and stored, and your identity easily stolen. Big companies and big governments want to know and exploit what you do, and privacy is a luxury few can afford or understand. In this explosive yet practical book, computer-security expert Kevin Mitnick uses true-life stories to show exactly what is happening without your knowledge, and teaches you "the art of invisibility": online and everyday tactics to protect you and your family, using easy step-by-step instructions. Reading this book, you will learn everything from password protection and smart Wi-Fi usage to advanced techniques designed to maximize your anonymity. Invisibility isn't just for superheroes--privacy is a power you deserve and need in the age of Big Brother and Big Data.

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.

Cybersecurity Essentials Charles J. Brooks 2018-08-31 An accessible introduction to cybersecurity concepts and practices Cybersecurity Essentials provides a comprehensive introduction to the field, with expert coverage of essential topics required for entry-level cybersecurity certifications. An effective defense consists of four distinct challenges: securing the infrastructure, securing devices, securing local networks, and securing the perimeter. Overcoming these challenges requires a detailed understanding of the concepts and practices within each realm. This book covers each challenge individually for greater depth of information, with real-world scenarios that show what vulnerabilities look like in everyday computing scenarios. Each part concludes with a summary of key concepts, review questions, and hands-on exercises, allowing you to test your understanding while exercising your new

critical skills. Cybersecurity jobs range from basic configuration to advanced systems analysis and defense assessment. This book provides the foundational information you need to understand the basics of the field, identify your place within it, and start down the security certification path. Learn security and surveillance fundamentals Secure and protect remote access and devices Understand network topologies, protocols, and strategies Identify threats and mount an effective defense Cybersecurity Essentials gives you the building blocks for an entry level security certification and provides a foundation of cybersecurity knowledge

Kali Linux Revealed Raphaël Hertzog 2017-06-05 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.

The Hacker Playbook 2 Peter Kim 2015-06-20 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.

Linux Kernel Programming Kaiwan N Billimoria 2021-03-19 Learn how to write high-quality kernel module code, solve common Linux kernel programming issues, and understand the fundamentals of Linux kernel internals Key FeaturesDiscover how to write kernel code using the Loadable Kernel Module frameworkExplore industry-grade techniques to perform efficient memory allocation and data synchronization within the kernelUnderstand the essentials of key internals topics such as kernel architecture, memory management, CPU scheduling, and kernel synchronizationBook Description Linux Kernel Programming is a comprehensive introduction for those new to Linux kernel and module development. This easy-to-follow guide will have you up and running with writing kernel code in next-to-no time. This book uses the latest 5.4 Long-Term Support (LTS) Linux kernel, which will be maintained from November 2019 through to December 2025. By working with the 5.4 LTS kernel throughout the book, you can be confident that your knowledge will continue to be valid for years to come. You'll start the journey by learning how to build the kernel from the source. Next, you'll write your first kernel module using the powerful Loadable Kernel Module (LKM) framework. The following chapters will cover key kernel internals topics including Linux kernel architecture, memory management, and CPU scheduling. During the course of this book, you'll delve into the fairly complex topic of concurrency within the kernel, understand the issues it can cause, and learn how they can be addressed with various locking technologies (mutexes, spinlocks, atomic, and refcount operators). You'll also benefit from more advanced material on cache effects, a primer on lock-free techniques within the kernel, deadlock

avoidance (with lockdep), and kernel lock debugging techniques. By the end of this kernel book, you'll have a detailed understanding of the fundamentals of writing Linux kernel module code for real-world projects and products. What you will learnWrite high-quality modular kernel code (LKM framework) for 5.x kernelsConfigure and build a kernel from sourceExplore the Linux kernel architectureGet to grips with key internals regarding memory management within the kernelUnderstand and work with various dynamic kernel memory alloc/dealloc APIsDiscover key internals aspects regarding CPU scheduling within the kernelGain an understanding of kernel concurrency issuesFind out how to work with key kernel synchronization primitivesWho this book is for This book is for Linux programmers beginning to find their way with Linux kernel development. If you're a Linux kernel and driver developer looking to overcome frequent and common kernel development issues, or understand kernel intervals, you'll find plenty of useful information. You'll need a solid foundation of Linux CLI and C programming before you can jump in.

SQL Server Forensic Analysis Kevvie Fowler 2009 The tools and techniques investigators need to conduct crucial forensic investigations in SQL Server. • • The database is the part of a forensic investigation that companies are the most concerned about. This book provides data and tools needed to avoid under or over reporting. • Teaches many about aspects about SQL server that are not widely known. • A complete tutorial to conducting SQL Server investigations and using that knowledge to confirm, assess, and investigate a digital intrusion. Companies today are in a terrible bind: They must report all possible data security breaches, but they don't always know if, in a given breech, data has been compromised. As a result, most companies are releasing information to the public about every system breech or attempted system breech they know about. This reporting, in turn, whips up public hysteria and makes many companies look bad. Kevvie Fowler's 'SQL Server Forensic Analysis' is an attempt to calm everyone down and focuses on a key, under-documented component of today's forensics investigations. The book will help investigators determine if a breech was attempted, if information on the database server was compromised in any way, and if any rootkits have been installed that can compromise sensitive data in the future. Readers will learn how to prioritize, acquire, and analyze database evidence using forensically sound practices and free industry tools. The final chapter will include a case study that demonstrates all the techniques from the book applied in a walk-through of a real-world investigation.

Advanced Penetration Testing Wil Allsopp 2017-02-27 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.

Mobile Hacking Michael Spreitzenbarth 2017-04-10 Mobile Endgeräte, vor allem Smartphones und Tablets der Hersteller Apple und Google, sind inzwischen in fast jedem Haushalt vertreten. Auch in der Firmenwelt nehmen diese Geräte einen immer größeren Stellenwert ein und verarbeiten hochsensible Daten. Diese neuen Einsatzszenarien, gepaart mit Tausenden von Applikationen, schaffen neue Angriffsvektoren und Einfallstore in diese Geräte. Dieses Buch stellt die einzelnen Angriffsszenarien und Schwachstellen in den verwendeten Applikationen detailliert vor und zeigt, wie Sie diese Schwachstellen aufspüren können. Am Beispiel der aktuellen Betriebssysteme (Android, iOS und Windows Mobile) erhalten Sie einen umfassenden Einblick ins Penetration Testing von mobilen Applikationen. Sie lernen typische Penetration-Testing-Tätigkeiten kennen und können nach der Lektüre Apps der großen Hersteller untersuchen und deren Sicherheit überprüfen. Behandelt werden u.a. folgende Themen: - Forensische Untersuchung des Betriebssystems, - Reversing von mobilen Applikationen, - SQL-Injection- und Path-Traversal-Angriffe, - Runtime-Manipulation von iOS-Apps mittels Cycript, - Angriffe auf die HTTPS-Verbindung, - u.v.m. Vorausgesetzt werden fundierte Kenntnisse in Linux/Unix sowie erweiterte Kenntnisse in Java bzw. Objective-C.

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.

How to Hack Like a God: Master the Secrets of Hacking Through Real Life Scenarios Sparc Flow 2017-04-17 Follow me on a step-by-step hacking journey where we pwn a high-profile fashion company. From zero initial access to remotely recording board meetings, we will detail every custom script and technique used in this attack, drawn from real-life findings, to paint the most realistic picture possible. Whether you are a wannabe pentester dreaming about real-life hacking experiences or an experienced ethical hacker tired of countless Metasploit tutorials, you will find unique gems in this book for you to try: -Playing with Kerberos -Bypassing Citrix & Applocker -Mainframe hacking -Fileless WMI persistence -NoSQL injections -Wiegand protocol -Exfiltration techniques -Antivirus evasion tricks -And much more advanced hacking techniques I have documented almost every tool and custom script used

in this book. I strongly encourage you to test them out yourself and master their capabilities (and limitations) in an environment you own and control. Hack (safely) the Planet! (Previously published as How to Hack a Fashion Brand)

Hacking for Beginners T. Y. E. DARWIN 2020-09-23 5 topics of Hacking you need to learn right now□□□□□ What is Hacking?♥ Hacking is a Skill. Hacking is a practice. Hacking is a passion. To be a hacker you need not build things but you need to crack them. Hackers are always decipted as evil in popular cultural references. However, there are good hackers called as " Ethical hackers " also known as " Penetration testers" and "security researchers". This book is written by a penetration researcher who have 20 years experience in the industry. He had spent time with hundreds of hackers and security researchers and compiled all his thoughts into this book. Hacking is not easy. But if you can follow a pathway followed by thousands of hackers from years ago you can easily become one. Author of this book explains these hacking procedures in 5 parts for your easy understanding. The five parts that are discussed in this paperback are :□□□□□ Creating a Perfect Hacking Environment Information Gathering Scanning and Sniffing (To Automatically find Vulnerabilities) Metasploit (To develop exploits and Bind them) Password Cracking (To crack passwords of Wifi and Websites) Why to buy this book? Are you a programmer trying to build things and unaware of the problems that may arise if you don't use good security practices in your code? Then you need to use this guide to create code that can not be able to be cracked by hackers. Are you a beginner who is interested in Hacking but are unaware of the roadmap that need to be used to become an elite hacker? Then you should read this to get a complete understanding about hacking principles Are you a bug-bounty hunter trying to build exploits to earn money? Then you should use this to expand your core hacking knowledge This book is useful for every enthusaist hacker and an eperienced hacker Here are just few of the topics that you are going to learn in this book 1) Introduction and Installation ofKali Linux What is Penetration Testing? How to Download Kali Linux Image file? Virtual Machine Installation of Kali Linux Physical Machine Installation of Kali Linux Hard Disk Partition Explained Kali Linux Introduction How to use Kali Linux? Introduction to GUI and Commands in Kali Linux Complete Understanding of Settings Panel in Kali 2) Reconoissance for Hackers Introduction to Networking Information Gathering Principles How to Scan hosts and Ports? How to do domain analysis and Find subdomains? Finding services and Operating systems AnalysingGathered Information Complete understanding about Nmap 3) Scanning and Sniffing What are Vulnerabilities? Using Nessus to Scan Vulnerabilities Using OpenVAS to scan vulnerabilities Understanding Sniffing Monitoring Network Data 4) Metasploit Exploit Development Using Metasploit Understanding Meterpreter Exploit Binding Pdf Attacking 5) Password Cracking Wireless Network hacking Hacking Passwords by Bruteforcing and a lot more..... What are you waiting for? Go and Buy this book and Get Introduced to the world of hacking

Hacking mit Metasploit Michael Messner 2017-11-28 Metasploit ist ein Penetration-Testing-Werkzeug, das in der Toolbox eines jeden Pentesters zu finden ist. Dieses Buch stellt das Framework detailliert vor und zeigt, wie Sie es im Rahmen unterschiedlichster Penetrationstests einsetzen. Am Beispiel von Metasploit erhalten Sie einen umfassenden Einblick ins Penetration Testing. Sie lernen typische Pentesting-Tätigkeiten kennen und können nach der Lektüre komplexe, mehrstufige Angriffe vorbereiten, durchführen und protokollieren. Jeder dargestellte Exploit bzw. jedes dargestellte Modul wird anhand eines praktischen Anwendungsbeispiels in einer gesicherten Laborumgebung vorgeführt. Behandelt werden u.a. folgende Themen: • Komplexe, mehrstufige Penetrationstests • Post-Exploitation-Tätigkeiten • Metasploit-Erweiterungen • Webapplikationen, Datenbanken, Client-Side-Angriffe, IPv6 • Automatisierung mit Ruby-Skripten • Entwicklung eigener Exploits inkl. SEHExploits • Exploits für Embedded Devices entwickeln • Umgehung unterschiedlichster Sicherheitsumgebungen Die dritte Auflage wurde überarbeitet und aktualisiert. Neu dabei: • Post-Exploitation-Tätigkeiten mit

Railgun vereinfachen • Bad-Characters bei der Entwicklung von Exploits berücksichtigen • Den Vulnerable Service Emulator nutzen Vorausgesetzt werden fundierte Kenntnisse der Systemtechnik (Linux und Windows) sowie der Netzwerktechnik.

Hacking mit Metasploit Michael Messner 2017-10-30

Security für Data-Warehouse- und Business-Intelligence-Systeme Herbert Stauffer 2018-08-23 Mit zunehmender Bedeutung der systematischen Datenanalyse – Stichwörter sind hier Big Data, Cloud-basierte Analysen, Mobile BI und Data Science – steigen auch die Sicherheitsanforderungen für BI-Systeme kontinuierlich. Der Autor beschreibt in seinem Buch praxisorientiert und systematisch die Grundlagen der Security und deren spezifische Ausprägungen in DWH- und BI-Systemen und analytischen Applikationen. Das Buch gliedert sich in fünf Teile: Behandlung von externen Bedrohungen Berechtigungsstrukturen, Prozesse und Systeme Sicherstellung des operativen Betriebs Standards, Methoden und Normen Hilfsmittel und Checklisten Der Leser erfährt, welche Anforderungen an die Schutzwürdigkeit von Systemen gestellt werden, welche Schutzziele verfolgt werden müssen, auf welchen Ebenen Security berücksichtigt werden muss, welche Typen von Maßnahmen es gegen interne und externe Bedrohungen gibt und welche Datenschutz- bzw. regulatorischen Anforderungen zu beachten sind. Auch auf die organisatorische Einbettung wird eingegangen: welche Einheiten im Unternehmen in die Security-Strategie einzubeziehen sind und wie sich die Security-Prozesse in gegebene IT- und BI-Serviceprozesse einordnen. Direkt anwendbare Checklisten ermöglichen einen schnellen Transfer in die eigene berufliche Praxis. Der Anhang des Buches enthält eine Übersicht über Security-Tools und -Kategorien sowie einen Exkurs in verwandte Themen wie Privacy und Lizenzmanagement.

Confident Cyber Security Dr Jessica Barker 2020-06-30 Understand the basic principles of cyber security and futureproof your career with this easy-to-understand, jargon-busting beginner's guide to the human, technical, and physical skills you need.

Cloud Security Sirisha Potluri 2021-07-19 This book presents research on the state-of-the-art methods and applications. Security and privacy related issues of cloud are addressed with best practices and approaches for secure cloud computing, such as cloud ontology, blockchain, recommender systems, optimization strategies, data security, intelligent algorithms, defense mechanisms for mitigating DDoS attacks, potential communication algorithms in cloud based IoT, secure cloud solutions.

Getting Started with Sensors Kimmo Karvinen 2014-08-14 To build electronic projects that can sense the physical world, you need to build circuits based around sensors: electronic components that react to physical phenomena by sending an electrical signal. Even with only basic electronic components, you can build useful and educational sensor projects. But if you incorporate Arduino or Raspberry Pi into your project, you can build much more sophisticated projects that can react in interesting ways and even connect to the Internet. This book starts by teaching you the basic electronic circuits to read and react to a sensor. It then goes on to show how to use Arduino to develop sensor systems, and wraps up by teaching you how to build sensor projects with the Linux-powered Raspberry Pi.

Keycloak - Identity and Access Management for Modern Applications Stian Thorgersen 2021-06-11 Learn to leverage the advanced capabilities of Keycloak, an open-source identity and access management solution, to enable authentication and authorization in applications Key FeaturesGet up to speed with Keycloak, OAuth 2.0, and OpenID Connect using practical examplesConfigure, manage, and extend Keycloak for optimized securityLeverage Keycloak features to secure different application

typesBook Description Implementing authentication and authorization for applications can be a daunting experience, often leaving them exposed to security vulnerabilities. Keycloak is an open-source solution for identity management and access management for modern applications, which can make a world of difference if you learn how to use it. Keycloak, helping you get started with using it and securing your applications. Complete with hands-on tutorials, best practices, and self-assessment questions, this easy-to-follow guide will show you how to secure a sample application and then move on to securing different application types. As you progress, you will understand how to configure and manage Keycloak as well as how to leverage some of its more advanced capabilities. Finally, you'll gain insights into securely using Keycloak in production. By the end of this book, you will have learned how to install and manage Keycloak as well as how to secure new and existing applications. What you will learnUnderstand how to install, configure, and manage KeycloakSecure your new and existing applications with KeycloakGain a basic understanding of OAuth 2.0 and OpenID ConnectUnderstand how to configure Keycloak to make it ready for production useDiscover how to leverage additional features and how to customize Keycloak to fit your needsGet to grips with securing Keycloak servers and protecting applicationsWho this book is for Developers, sysadmins, security engineers, or anyone who wants to leverage Keycloak and its capabilities for application security will find this book useful. Beginner-level knowledge of app development and authentication and authorization is expected.

Practical OPNsense Markus Stubbig 2021-05-26 Simple packet filters are becoming a thing of the past. Even the open-source domain is moving towards Next-Generation Firewalls. And OPNsense is a top player when it comes to intrusion detection, application control, web filtering, and anti-virus. No network is too insignificant to be spared by an attacker. Even home networks, washing machines, and smartwatches are threatened and require a secure environment. Firewalls are a component of the security concept. They protect against known and new threats to computers and networks. A firewall offers the highest level of protection if its functions are known, its operation is simple, and it is ideally positioned in the surrounding infrastructure. OPNsense accepts the challenge and meets these criteria in different ways. This book is the ideal companion for understanding, installing and setting up an OPNsense firewall. Each chapter explains a real-world situation, describes the theoretical fundamentals, and presents a laboratory experiment for better understanding. Finally, it offers a solution using OPNsense methods and knowledge from a technical background. The chapters are mostly independent of each other, but presented with increasing levels of proficiency. Thus, the topics dealt with are appropriate for beginners to professionals.