

The Hacker Playbook Practical Guide To Penetration Testing

Kindle Edition Peter Kim

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Hardware Hacking - Joe Grand 2004-01-29

"If I had this book 10 years ago, the FBI would never have found me!" -- Kevin Mitnick This book has something for everyone---from the beginner hobbyist with no electronics or coding experience to the self-proclaimed "gadget geek." Take an ordinary piece of equipment and turn it into a personal work of art. Build upon an existing idea to create something better. Have fun while voiding your warranty! Some of the hardware hacks in this book include: * Don't toss your iPod away when the battery dies! Don't pay Apple the \$99 to replace it! Install a new iPod battery yourself without Apple's "help" * An Apple a day! Modify a standard Apple USB Mouse into a glowing UFO Mouse or build a FireWire terabyte hard drive and custom case * Have you played Atari today? Create an arcade-style Atari 5200 paddle controller for your favorite retro videogames or transform the Atari 2600 joystick into one that can be used by left-handed players * Modern game systems, too! Hack your PlayStation 2 to boot code from the memory card or modify your PlayStation 2 for homebrew game development * Videophiles unite! Design, build, and configure your own Windows- or Linux-based Home Theater PC * Ride the airwaves! Modify a wireless PCMCIA NIC to include an external antenna connector or load Linux onto your Access Point * Stick it to The Man! Remove the proprietary barcode encoding from your CueCat and turn it into a regular barcode reader * Hack your Palm! Upgrade the available RAM on your Palm m505 from 8MB to 16MB · Includes hacks of today's most popular gaming systems like Xbox and PS/2. · Teaches readers to unlock the full entertainment potential of their desktop PC. · Frees iMac owners to enhance the features they love and get rid of the ones they hate.

Mastering Modern Web Penetration Testing - Prakhar Prasad 2016-10-28

Master the art of conducting modern pen testing attacks and techniques on your web application before the hacker does! About This Book This book covers the latest technologies such as Advance XSS, XSRF, SQL Injection, Web API testing, XML attack vectors, OAuth 2.0 Security, and more involved in today's web applications Penetrate and secure your web application using various techniques Get this comprehensive reference guide that provides advanced tricks and tools of the trade for seasoned penetration testers Who This Book Is For This book is for security professionals and penetration testers who want to speed up their modern web application penetrating testing. It will also benefit those at an intermediate level and web developers who need to be aware of the latest application hacking techniques. What You Will Learn Get to know the new and less-publicized techniques such PHP Object Injection and XML-based vectors Work with different security tools to automate most of the redundant tasks See different kinds of newly-designed security headers and how they help to provide security Exploit and detect different kinds of XSS vulnerabilities Protect your web application using

filtering mechanisms Understand old school and classic web hacking in depth using SQL Injection, XSS, and CSRF Grasp XML-related vulnerabilities and attack vectors such as XXE and DoS techniques Get to know how to test REST APIs to discover security issues in them In Detail Web penetration testing is a growing, fast-moving, and absolutely critical field in information security. This book executes modern web application attacks and utilises cutting-edge hacking techniques with an enhanced knowledge of web application security. We will cover web hacking techniques so you can explore the attack vectors during penetration tests. The book encompasses the latest technologies such as OAuth 2.0, Web API testing methodologies and XML vectors used by hackers. Some lesser discussed attack vectors such as RPO (relative path overwrite), DOM clobbering, PHP Object Injection and etc. has been covered in this book. We'll explain various old school techniques in depth such as XSS, CSRF, SQL Injection through the ever-dependable SQLMap and reconnaissance. Websites nowadays provide APIs to allow integration with third party applications, thereby exposing a lot of attack surface, we cover testing of these APIs using real-life examples. This pragmatic guide will be a great benefit and will help you prepare fully secure applications. Style and approach This master-level guide covers various techniques serially. It is power-packed with real-world examples that focus more on the practical aspects of implementing the techniques rather going into detailed theory.

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

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.

The Car Hacker's Handbook - Craig Smith 2016-03-01

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. *The Car Hacker's Handbook* will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, *The Car Hacker's Handbook* will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make *The Car Hacker's Handbook* your first stop.

Real-World Bug Hunting - Peter Yaworski 2019-07-09

Learn how people break websites and how you can, too. *Real-World Bug Hunting* is the premier field guide to finding software bugs. Whether you're a cyber-security beginner who wants to make the internet safer or a seasoned developer who wants to write secure code, ethical hacker Peter Yaworski will show you how it's

done. You'll learn about the most common types of bugs like cross-site scripting, insecure direct object references, and server-side request forgery. Using real-life case studies of rewarded vulnerabilities from applications like Twitter, Facebook, Google, and Uber, you'll see how hackers manage to invoke race conditions while transferring money, use URL parameter to cause users to like unintended tweets, and more. Each chapter introduces a vulnerability type accompanied by a series of actual reported bug bounties. The book's collection of tales from the field will teach you how attackers trick users into giving away their sensitive information and how sites may reveal their vulnerabilities to savvy users. You'll even learn how you could turn your challenging new hobby into a successful career. You'll learn: How the internet works and basic web hacking concepts How attackers compromise websites How to identify functionality commonly associated with vulnerabilities How to find bug bounty programs and submit effective vulnerability reports *Real-World Bug Hunting* is a fascinating soup-to-nuts primer on web security vulnerabilities, filled with stories from the trenches and practical wisdom. With your new understanding of site security and weaknesses, you can help make the web a safer place—and profit while you're at it.

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.

BTFM - Alan White 2017

Blue Team Field Manual (BTFM) is a Cyber Security Incident Response Guide that aligns with the NIST Cybersecurity Framework consisting of the five core functions of Identify, Protect, Detect, Respond, and Recover by providing the tactical steps to follow and commands to use when preparing for, working through and recovering from a Cyber Security Incident.

Above Ground Storage Tanks - Sunil Pullarcot 2015-06-02

Covers All Site Activities after Design Above Ground Storage Tanks: Practical Guide to Construction, Inspection, and Testing is an ideal guide for engineers involved in the mechanical construction of above ground storage tanks. This text details the construction of storage tanks in accordance with the American Petroleum Institute requirements for API 650, and is the first book to cover every stage subsequent to the design of storage tanks. The author focuses on the mechanical construction, inspection, and testing of storage tanks and all aspects on-site after design, and explains the relevance of code requirements. In addition, he incorporates real-world applications based on his own experience, and provides a host of practical tips, useful in avoiding repair and reworks during construction of storage tanks. Presents material compiled according to the requirements of API 650 for the construction of storage tanks Includes coverage of the practical aspects of tank farm layout, design, foundation, erection, welding, inspection and testing Explains the details of construction /welding sequences and NDT with simple sketches and tables Spells out applicable codes and specifications, and provides logical explanations of various code requirements A reference for beginners and practitioners in the construction industry, *Above Ground Storage Tanks: Practical Guide to Construction, Inspection, and Testing* contains valuable information on API 650 code requirements and specifications, and the construction of above ground storage tanks.

Rtfm - Ben Clark 2014-02-11

The Red Team Field Manual (RTFM) is a no fluff, but thorough reference guide for serious Red Team members who routinely find themselves on a mission without

Google or the time to scan through a man page. The RTFM contains the basic syntax for commonly used Linux and Windows command line tools, but it also encapsulates unique use cases for powerful tools such as Python and Windows PowerShell. The RTFM will repeatedly save you time looking up the hard to remember Windows nuances such as Windows wmic and dsquery command line tools, key registry values, scheduled tasks syntax, startup locations and Windows scripting. More importantly, it should teach you some new red team techniques.

Practical Lock Picking - Deviant Ollam 2010-07-27

For the first time, Deviant Ollam, one of the security industry's best-known lockpicking teachers, has assembled an instructional manual geared specifically toward penetration testers. Unlike other texts on the subject (which tend to be either massive volumes detailing every conceivable style of lock or brief "spy manuals" that only skim the surface) this book is for INFOSEC professionals that need essential, core knowledge of lockpicking and seek the ability to open most locks with relative ease. Deviant's material is presented with rich, detailed diagrams and is offered in easy-to-follow lessons which allow even beginners to acquire the knowledge very quickly. Everything from straightforward lockpicking to quick-entry techniques like shimmying, bumping, and bypassing is explained and shown. Whether you're being hired to penetrate security or simply trying to harden your own defenses, this book is essential.

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

The Basics of Hacking and Penetration Testing - Patrick Egebretson 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.

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.

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.

The Hacker Playbook 3 - Peter Kim 2018-05-02

Back for the third season, The Hacker Playbook 3 (THP3) takes your offensive game to the pro tier. With a combination of new strategies, attacks, exploits, tips and tricks, you will be able to put yourself in the center of the action toward victory. The main purpose of this book is to answer questions as to why things are still broken. For instance, with all the different security products, secure code reviews, defense in

depth, and penetration testing requirements, how are we still seeing massive security breaches happening to major corporations and governments? The real question we need to ask ourselves is, are all the safeguards we are putting in place working? This is what *The Hacker Playbook 3 - Red Team Edition* is all about. By now, we are all familiar with penetration testing, but what exactly is a Red Team? Red Teams simulate real-world, advanced attacks to test how well your organization's defensive teams respond if you were breached. They find the answers to questions like: Do your incident response teams have the right tools, skill sets, and people to detect and mitigate these attacks? How long would it take them to perform these tasks and is it adequate? This is where you, as a Red Teamer, come in to accurately test and validate the overall security program. THP3 will take your offensive hacking skills, thought processes, and attack paths to the next level. This book focuses on real-world campaigns and attacks, exposing you to different initial entry points, exploitation, custom malware, persistence, and lateral movement--all without getting caught! This heavily lab-based book will include multiple Virtual Machines, testing environments, and custom THP tools. So grab your helmet and let's go break things! For more information, visit <http://thehackerplaybook.com/about/>.

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.

Learning Pentesting for Android Devices - Aditya Gupta 2014-03-26

This is an easy-to-follow guide, full of hands-on and real-world examples of applications. Each of the vulnerabilities discussed in the book is accompanied with the practical approach to the vulnerability, and the underlying security issue. This book is intended for

all those who are looking to get started in Android security or Android application penetration testing. You don't need to be an Android developer to learn from this book, but it is highly recommended that developers have some experience in order to learn how to create secure applications for Android.

Defensive Security Handbook - Lee Brotherston 2017-04-03
Despite the increase of high-profile hacks, record-breaking data leaks, and ransomware attacks, many organizations don't have the budget to establish or outsource an information security (InfoSec) program, forcing them to learn on the job. For companies obliged to improvise, this pragmatic guide provides a security-101 handbook with steps, tools, processes, and ideas to help you drive maximum-security improvement at little or no cost. Each chapter in this book provides step-by-step instructions for dealing with a specific issue, including breaches and disasters, compliance, network infrastructure and password management, vulnerability scanning, and penetration testing, among others. Network engineers, system administrators, and security professionals will learn tools and techniques to help improve security in sensible, manageable chunks. Learn fundamentals of starting or redesigning an InfoSec program. Create a base set of policies, standards, and procedures. Plan and design incident response, disaster recovery, compliance, and physical security. Bolster Microsoft and Unix systems, network infrastructure, and password management. Use segmentation practices and designs to compartmentalize your network. Explore automated process and tools for vulnerability management. Securely develop code to reduce exploitable errors. Understand basic penetration testing concepts through purple teaming. Delve into IDS, IPS, SOC, logging, and monitoring.

Gray Hat Hacking: The Ethical Hacker's Handbook, Fifth Edition - Daniel Regalado 2018-04-05

Cutting-edge techniques for finding and fixing critical security flaws. Fortify your network and avert digital catastrophe with proven strategies from a team of security experts. Completely updated and featuring 13 new chapters, *Gray Hat Hacking, The Ethical Hacker's Handbook, Fifth Edition* explains the enemy's current weapons, skills, and tactics and offers field-tested remedies, case studies, and ready-to-try testing labs. Find out how hackers gain access, overtake network devices, script and inject malicious code, and plunder Web applications and browsers. Android-based exploits, reverse engineering techniques, and cyber law are thoroughly covered in this state-of-the-art resource. And the new topic of exploiting the Internet of things is introduced in this edition.

- Build and launch spoofing exploits with Ettercap
- Induce error conditions and crash software using fuzzers
- Use advanced reverse engineering to exploit Windows and Linux software
- Bypass Windows Access Control and memory protection schemes
- Exploit web applications with Padding Oracle Attacks
- Learn the use-after-free technique used in recent zero days
- Hijack web browsers with advanced XSS attacks
- Understand ransomware and how it takes control of your desktop
- Dissect Android malware with JEB and DAD decompilers
- Find one-day vulnerabilities with binary diffing
- Exploit wireless systems with Software Defined Radios (SDR)
- Exploit Internet of things devices
- Dissect and exploit embedded devices
- Understand bug bounty programs
- Deploy next-generation honeypots
- Dissect ATM malware and analyze common ATM attacks
- Learn the business side of ethical hacking

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.

Attacking Network Protocols - James Forshaw 2018-01-02
Attacking Network Protocols is a deep dive into network protocol security from James Forshaw, one of the world's leading bug hunters. This comprehensive guide looks at networking from an attacker's perspective to help you discover, exploit, and ultimately protect vulnerabilities. You'll start with a rundown of networking basics and protocol traffic capture before moving on to static and dynamic protocol analysis, common protocol structures, cryptography, and protocol security. Then you'll turn your focus to finding and exploiting vulnerabilities, with an overview of common bug classes, fuzzing, debugging, and exhaustion attacks. Learn how to: - Capture, manipulate, and replay packets - Develop tools to dissect traffic and reverse engineer code to understand the inner workings of a network protocol - Discover and exploit vulnerabilities such as memory corruptions, authentication bypasses, and denials of service - Use capture and analysis tools like Wireshark and develop your own custom network proxies to manipulate network traffic
Attacking Network Protocols is a must-have for any penetration tester, bug hunter, or developer looking to understand and discover network vulnerabilities.

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

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

Learn Ethical Hacking from Scratch - Zaid Sabih 2018-07-31

Learn how to hack systems like black hat hackers and secure them like security experts
Key Features
Understand how computer systems work and their vulnerabilities
Exploit weaknesses and hack into machines to test their security
Learn how to secure systems from hackers
Book Description
This book starts with the basics of ethical hacking, how to practice hacking safely and legally, and how to install and interact with Kali Linux and the Linux terminal. You will explore network hacking, where you will see how to test the security of wired and wireless networks. You'll also learn how to crack the password for any Wi-Fi network (whether it uses WEP, WPA, or WPA2) and spy on the connected devices. Moving on, you will discover how to gain access to remote computer systems using client-side and server-side attacks. You will also get the hang of post-exploitation techniques, including remotely controlling and interacting with the systems that you compromised. Towards the end of the book, you will be able to pick up web application hacking techniques. You'll see how to discover, exploit, and prevent a number of website vulnerabilities, such as XSS and SQL injections. The attacks covered are practical techniques that work against real systems and are purely for educational purposes. At the end of each section, you will learn how to detect, prevent, and secure systems from these attacks. What you will learn
Understand ethical hacking and the different fields and types of hackers
Set up a penetration testing lab to practice safe and legal hacking
Explore Linux basics, commands, and how to interact with the terminal
Access password-protected networks and spy on connected clients
Use server and client-side attacks to hack and control remote computers
Control a hacked system remotely and use it to hack other systems
Discover, exploit, and prevent a number of web application vulnerabilities such as XSS and SQL injections
Who this book is for
Learning Ethical Hacking from Scratch is for anyone interested in learning how to hack and test the security of systems like professional hackers and security experts.

Hacking - Gary Hall 2016-12-28

Are you interested in learning about how to hack systems? Do you want to learn how to protect yourself from being hacked? Do you wish to learn the art of ethical hacking? Do you want to know the secrets

techniques that genius hackers use? Do you want to learn how to protect yourself from some of the most common hacking attacks? Hacking is one of the most misunderstood cyber concepts. The majority of people think of hacking as something evil or illegal, but nothing could be farther from the truth. Indeed, hacking can be a real threat, but if you want to stop someone from hacking you, you must also learn how to hack! In this book, "Hacking: The Ultimate Beginner-to-Expert Guide To Penetration Testing, Hacking, And Security Countermeasures," you will learn: The different types of hackers The different types of attacks The proven steps and techniques that the best hackers use Penetration testing Hacking Wi-Fi Hacking Smartphones Hacking computers The countermeasures you need to protect yourself from hackers The future of hacking And much, much more! This book goes all the way from the basic principles to the intricate techniques and methods that you can use to hack. It is written to suit both beginners, as well as hacking experts. The book uses a language that beginners can understand, without leaving out the complex details that are necessary with hacking. This book is a great place to start learning how to hack and how to protect your devices. If you have been waiting for a book that can break it down for you and then dive into the deep end seamlessly, grab a copy of this book today! Buy your copy today!

Hacking University - Isaac Cody 2016-07-22

Have you ever wanted to be a hacker? Does cracking passwords and the exfiltration of data intrigue you?
Hacking University: Freshman Edition is a beginner's guide to the complex security concepts involved with hacking. Whether you are an aspiring "hacktivist" or a security-minded individual, this book can start you on your career of exploration. This book contains demonstrations of hacking techniques and actual code. Aspiring hackers can follow along to get a feel for how professions operate, and persons wishing to hide themselves from hackers can view the same methods for information on how to protect themselves. What makes this hacking book different from other hacking books you might asked? Well it is essentially brings the most up to date information that will allow you to start hacking today. Every skill has to start from somewhere and I firmly believe this book is the perfect platform to get you on your way to start a specialized skill-set in Hacking. By reading this book you will learn the following: The rich history behind hacking Modern security and its place in the business world Common terminology and technical jargon in security How to program a fork bomb How to crack a Wi-Fi password Methods for protecting and concealing yourself as a hacker How to prevent counter-hacks and deter government surveillance The different types of malware and what they do Various types of hacking attacks and how perform or protect yourself from them And much more!
Hacking University: Freshman Edition is a wonderful overview of the types of topics that hackers like to learn about. By purchasing this book, you too can learn the well-kept secrets of hackers. Get your copy today! Scroll up and hit the buy button to download now!

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 NMAP Invoke 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 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.

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

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

lesser-known methods Explore intermediate and advanced levels of post-exploitation techniques Get acquainted with all the tools and frameworks included in the Metasploit framework Discover the art of getting stealthy access to systems via Red Teaming Understand the concept of redirectors to add further anonymity to your C2 Get to grips with different uncommon techniques for data exfiltration Who this book is for Hands-On Red Team Tactics is for you if you are an IT professional, pentester, security consultant, or ethical hacker interested in the IT security domain and wants to go beyond Penetration Testing. Prior knowledge of penetration testing is beneficial.

Everyday Cryptography - Keith Martin 2017-06-22

Cryptography is a vital technology that underpins the security of information in computer networks. This book presents a comprehensive introduction to the role that cryptography plays in providing information security for everyday technologies such as the Internet, mobile phones, Wi-Fi networks, payment cards, Tor, and Bitcoin. This book is intended to be introductory, self-contained, and widely accessible. It is suitable as a first read on cryptography. Almost no prior knowledge of mathematics is required since the book deliberately avoids the details of the mathematics techniques underpinning cryptographic mechanisms. Instead our focus will be on what a normal user or practitioner of information security needs to know about cryptography in order to understand the design and use of everyday cryptographic applications. By focusing on the fundamental principles of modern cryptography rather than the technical details of current cryptographic technology, the main part this book is relatively timeless, and illustrates the application of these principles by considering a number of contemporary applications of cryptography. Following the revelations of former NSA contractor Edward Snowden, the book considers the wider societal impact of use of cryptography and strategies for addressing this. A reader of this book will not only be able to understand the everyday use of cryptography, but also be able to interpret future developments in this fascinating and crucially important area of technology.

Hands-On Web Penetration Testing with Metasploit -

Harpreet Singh 2020-05-22

Identify, exploit, and test web application security with ease Key Features Get up to speed with Metasploit and discover how to use it for pentesting Understand how to exploit and protect your web environment effectively Learn how an exploit works and what causes vulnerabilities Book Description Metasploit has been a crucial security tool for many years. However, there are only a few modules that Metasploit has made available to the public for pentesting web applications. In this book, you'll explore another aspect of the framework – web applications – which is not commonly used. You'll also discover how Metasploit, when used with its inbuilt GUI, simplifies web application penetration testing. The book starts by focusing on the Metasploit setup, along with covering the life cycle of the penetration testing process. Then, you will explore Metasploit terminology and the web GUI, which is available in the Metasploit Community Edition. Next, the book will take you through pentesting popular content management systems such as Drupal, WordPress, and Joomla, which will also include studying the latest CVEs and understanding the root cause of vulnerability in detail. Later, you'll gain insights into the vulnerability assessment and exploitation of technological platforms such as JBoss, Jenkins, and Tomcat. Finally, you'll learn how to fuzz web applications to find logical security vulnerabilities using third-party tools. By the end of this book, you'll have a solid understanding of how to exploit and validate vulnerabilities by working with various tools and techniques. What you will learn Get up

to speed with setting up and installing the Metasploit framework Gain first-hand experience of the Metasploit web interface Use Metasploit for web-application reconnaissance Understand how to pentest various content management systems Pentest platforms such as JBoss, Tomcat, and Jenkins Become well-versed with fuzzing web applications Write and automate penetration testing reports Who this book is for This book is for web security analysts, bug bounty hunters, security professionals, or any stakeholder in the security sector who wants to delve into web application security testing. Professionals who are not experts with command line tools or Kali Linux and prefer Metasploit's graphical user interface (GUI) will also find this book useful. No experience with Metasploit is required, but basic knowledge of Linux and web application pentesting will be helpful.

Python for Offensive PenTest - Hussam Khrais 2018-04-26
Your one-stop guide to using Python, creating your own hacking tools, and making the most out of resources available for this programming language Key Features Comprehensive information on building a web application penetration testing framework using Python Master web application penetration testing using the multi-paradigm programming language Python Detect vulnerabilities in a system or application by writing your own Python scripts Book Description Python is an easy-to-learn and cross-platform programming language that has unlimited third-party libraries. Plenty of open source hacking tools are written in Python, which can be easily integrated within your script. This book is packed with step-by-step instructions and working examples to make you a skilled penetration tester. It is divided into clear bite-sized chunks, so you can learn at your own pace and focus on the areas of most interest to you. This book will teach you how to code a reverse shell and build an anonymous shell. You will also learn how to hack passwords and perform a privilege escalation on Windows with practical examples. You will set up your own virtual hacking environment in VirtualBox, which will help you run multiple operating systems for your testing environment. By the end of this book, you will have learned how to code your own scripts and mastered ethical hacking from scratch. What you will learn Code your own reverse shell (TCP and HTTP) Create your own anonymous shell by interacting with Twitter, Google Forms, and SourceForge Replicate Metasploit features and build an advanced shell Hack passwords using multiple techniques (API hooking, keyloggers, and clipboard hijacking) Exfiltrate data from your target Add encryption (AES, RSA, and XOR) to your shell to learn how cryptography is being abused by malware Discover privilege escalation on Windows with practical examples Countermeasures against most attacks Who this book is for This book is for ethical hackers; penetration testers; students preparing for OSCP, OSCE, GPEN, GXPN, and CEH; information security professionals; cybersecurity consultants; system and network security administrators; and programmers who are keen on learning all about penetration testing.

Network Security Assessment - Chris McNab 2004
A practical handbook for network administrators who need to develop and implement security assessment programs, exploring a variety of offensive technologies, explaining how to design and deploy networks that are immune to offensive tools and scripts, and detailing an efficient testing model. Original. (Intermediate)
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?

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 don't 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.

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.

Penetration Testing Fundamentals - William (Chuck) Easttom II 2018-03-06

The perfect introduction to pen testing for all IT professionals and students

- Clearly explains key concepts, terminology, challenges, tools, and skills
- Covers the latest penetration testing standards from NSA, PCI, and NIST

Welcome to today's most useful and practical introduction to penetration testing. Chuck Easttom brings together up-to-the-minute coverage of all the concepts, terminology, challenges, and skills you'll need to be effective. Drawing on decades of experience in cybersecurity and related IT fields, Easttom integrates theory and practice, covering the entire penetration testing life cycle from planning to reporting. You'll gain practical experience through a start-to-finish sample project relying on free open source tools. Throughout, quizzes, projects, and review sections deepen your understanding and help you apply what you've learned. Including essential pen testing standards from NSA, PCI, and NIST, *Penetration Testing Fundamentals* will help you protect your assets—and expand your career options.

LEARN HOW TO

- Understand what pen testing is and how it's used
- Meet modern standards for comprehensive and effective testing
- Review cryptography essentials every pen tester must know
- Perform reconnaissance with Nmap, Google searches, and ShodanHQ
- Use malware as part of your pen testing toolkit
- Test for vulnerabilities in Windows shares, scripts, WMI, and the Registry
- Pen test websites and web communication
- Recognize SQL injection and cross-site scripting attacks
- Scan for vulnerabilities with OWASP ZAP, Vega, Nessus, and MBSA
- Identify Linux vulnerabilities and password cracks
- Use Kali Linux for advanced pen testing
- Apply general hacking technique such as fake Wi-Fi hotspots and social engineering
- Systematically test your environment with Metasploit
- Write or customize sophisticated Metasploit exploits

Penetration Testing Azure for Ethical Hackers - David Okeyode 2021-11-25

Simulate real-world attacks using tactics, techniques, and procedures that adversaries use during cloud breaches

Key Features

- Understand the different Azure attack techniques and methodologies used by hackers
- Find out how you can ensure end-to-end cybersecurity in the Azure ecosystem
- Discover various tools and techniques to perform successful penetration tests on your Azure infrastructure

Book Description "If you're looking for this book, you need it." – 5* Amazon Review

Curious about how safe Azure really is? Put your knowledge to

work with this practical guide to penetration testing. This book offers a no-faff, hands-on approach to exploring Azure penetration testing methodologies, which will get up and running in no time with the help of real-world examples, scripts, and ready-to-use source code. As you learn about the Microsoft Azure platform and understand how hackers can attack resources hosted in the Azure cloud, you'll find out how to protect your environment by identifying vulnerabilities, along with extending your pentesting tools and capabilities. First, you'll be taken through the prerequisites for pentesting Azure and shown how to set up a pentesting lab. You'll then simulate attacks on Azure assets such as web applications and virtual machines from anonymous and authenticated perspectives. In the later chapters, you'll learn about the opportunities for privilege escalation in Azure tenants and ways in which an attacker can create persistent access to an environment. By the end of this book, you'll be able to leverage your ethical hacking skills to identify and implement different tools and techniques to perform successful penetration tests on your own Azure infrastructure. What you will learn

- Identify how administrators misconfigure Azure services, leaving them open to exploitation
- Understand how to detect cloud infrastructure, service, and application misconfigurations
- Explore processes and techniques for exploiting common Azure security issues
- Use on-premises networks to pivot and escalate access within Azure
- Diagnose gaps and weaknesses in Azure security implementations
- Understand how attackers can escalate privileges in Azure AD

Who this book is for This book is for new and experienced infosec enthusiasts who want to learn how to simulate real-world Azure attacks using tactics, techniques, and procedures (TTPs) that adversaries use in cloud breaches. Any technology professional working with the Azure platform (including Azure administrators, developers, and DevOps engineers) interested in learning how attackers exploit vulnerabilities in Azure hosted infrastructure, applications, and services will find this book useful.

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.

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.