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EAFLEN - MAXIMILLIAN PALOMA

Secure Your Wireless Networks the Hacking Exposed Way Defend against the latest pervasive and devastating wireless attacks using the tactical security information contained in this comprehensive volume. Hacking Exposed Wireless reveals how hackers zero in on susceptible networks and peripherals, gain access, and execute debilitating attacks. Find out how to plug security holes in Wi-Fi/802.11 and Bluetooth systems and devices. You'll also learn how to launch wireless exploits from Metasploit, employ bullet-proof authentication and encryption, and sidestep insecure wireless hotspots. The book includes vital details on new, previously unpublished attacks alongside real-world countermeasures. Understand the concepts behind RF electronics, Wi-Fi/802.11, and Bluetooth Find out how hackers use NetStumbler, WiSPY, Kismet, KisMAC, and AiroPeek to target vulnerable wireless networks Defend against WEP key brute-force, aircrack, and traffic injection hacks Crack WEP at new speeds using Field Programmable Gate Arrays or your spare PS3 CPU cycles Prevent rogue AP and certificate authentication attacks Perform packet injection from Linux Launch DoS attacks using device driver-independent tools Exploit wireless device drivers using the Metasploit 3.0 Framework Identify and avoid malicious hotspots Deploy WPA/802.11i authentication and encryption using PEAP, FreeRADIUS, and WPA pre-shared keys
The latest tactics for thwarting digital attacks “Our new reality is zero-day, APT, and state-sponsored attacks. Today, more than ever, security professionals need to get into the hacker’s mind, methods, and toolbox to successfully deter such relentless assaults. This edition brings readers abreast with the latest attack vectors and arms them for these continually evolving threats.” --Brett Wahlin, CSO, Sony Network Entertainment “Stop taking punches--let’s change the game; it’s time for a paradigm shift in the way we secure our networks, and Hacking Exposed 7 is the playbook for bringing pain to our adversaries.” --Shawn Henry, former Executive Assistant Director, FBI Bolster your system’s security and defeat the tools and tactics of cyber-criminals with expert advice and defense strategies from the world-renowned Hacking Exposed team. Case studies expose the hacker’s latest devious methods and illustrate field-tested remedies. Find out how to block infrastructure hacks, minimize advanced persistent threats, neutralize malicious code, secure web and database applications, and fortify UNIX networks. Hacking Exposed 7: Network Security Secrets & Solutions contains all-new visual maps and a comprehensive “countermeasures cookbook.” Obstruct APTs and web-based meta-exploits Defend against UNIX-based root access and buffer overflow hacks Block SQL injection, spear phishing, and embedded-code attacks Detect and terminate rootkits, Trojans, bots, worms, and malware Lock down remote access using smartcards and hardware tokens Protect 802.11 WLANs with multilayered encryption and gateways Plug holes in VoIP, social networking, cloud, and Web 2.0 services Learn about the latest iPhone and Android attacks and how to protect yourself
Provides coverage of the security features in Windows Server 2003. This book is useful for network professionals working with a Windows Server 2003 and/or Windows XP system.
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.

Analyzes attacks on computer networks, discusses security, auditing, and intrusion detection procedures, and covers hacking on the Internet, attacks against Windows, e-commerce hacking methodologies, and new discovery tools.
This one-of-a-kind book provides in-depth expert insight into how hackers infiltrate e-business, and how they can be stopped.
“The seminal book on white-hat hacking and countermeasures... Should be required reading for anyone with a server or a network

to secure.” --Bill Machrone, PC Magazine "The definitive compendium of intruder practices and tools." --Steve Steinke, Network Magazine "For almost any computer book, you can find a clone. But not this one... A one-of-a-kind study of the art of breaking in." --UNIX Review Here is the latest edition of international best-seller, Hacking Exposed. Using real-world case studies, renowned security experts Stuart McClure, Joel Scambray, and George Kurtz show IT professionals how to protect computers and networks against the most recent security vulnerabilities. You'll find detailed examples of the latest devious break-ins and will learn how to think like a hacker in order to thwart attacks. Coverage includes: Code hacking methods and countermeasures New exploits for Windows 2003 Server, UNIX/Linux, Cisco, Apache, and Web and wireless applications Latest DDoS techniques--zombies, Blaster, MyDoom All new class of vulnerabilities--HTTP Response Splitting and much more

Hacker extraordinaire Kevin Mitnick delivers the explosive encore to his bestselling The Art of Deception Kevin Mitnick, the world's most celebrated hacker, now devotes his life to helping businesses and governments combat data thieves, cybervandals, and other malicious computer intruders. In his bestselling The Art of Deception, Mitnick presented fictionalized case studies that illustrated how savvy computer crackers use "social engineering" to compromise even the most technically secure computer systems. Now, in his new book, Mitnick goes one step further, offering hair-raising stories of real-life computer break-ins-and showing how the victims could have prevented them. Mitnick's reputation within the hacker community gave him unique credibility with the perpetrators of these crimes, who freely shared their stories with him-and whose exploits Mitnick now reveals in detail for the first time, including: A group of friends who won nearly a million dollars in Las Vegas by reverse-engineering slot machines Two teenagers who were persuaded by terrorists to hack into the Lockheed Martin computer systems Two convicts who joined forces to become hackers inside a Texas prison A "Robin Hood" hacker who penetrated the computer systems of many prominent companies-andthen told them how he gained access With riveting "you are there" descriptions of real computer break-ins, indispensable tips on countermeasures security professionals need to implement now, and Mitnick's own acerbic commentary on the crimes he describes, this book is sure to reach a wide audience-and attract the attention of both law enforcement agencies and the media.

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.

Exploit and defend against the latest wireless network attacks Learn to exploit weaknesses in wireless network environments using the innovative techniques in this thoroughly updated guide. Inside, you’ll find concise technical overviews, the latest attack methods, and ready-to-deploy countermeasures. Find out how to leverage wireless eavesdropping, break encryption systems, deliver remote exploits, and manipulate 802.11 clients, and learn how attackers impersonate cellular networks. Hacking Exposed Wireless, Third Edition features expert coverage of ever-expanding threats that affect leading-edge technologies, including Bluetooth Low Energy, Software Defined Radio (SDR), ZigBee, and Z-Wave. Assemble a wireless attack toolkit and master the hacker’s weapons Effectively scan and enumerate WiFi networks and client devices Leverage advanced wireless attack tools, including Wifite, Scapy, Pyrit, Metasploit, KillerBee, and the Aircrack-ng suite Develop and launch client-side attacks using Ettercap and the WiFi Pineapple Hack cellular networks with Airprobe, Kraken, Pytacle, and YateBTS Exploit holes in WPA and WPA2 personal and enterprise security schemes Leverage rogue hotspots to deliver remote access software through fraudulent software updates Eavesdrop on Bluetooth Classic and Bluetooth Low Energy traffic Capture and evaluate proprietary wireless technology with Software Defined Radio tools Explore vulnerabilities in ZigBee and Z-Wave-connected smart homes and offices Attack remote wireless networks using compromised Windows systems and built-in tools

Whether retracing the steps of a security breach or tracking down high-tech crime, this complete package shows how to be prepared with both the necessary tools and expert knowledge that ultimately helps the forensics stand up in court. The bonus CD-ROM contains the latest version of each of the forensic tools covered in the book and evidence files for real-time investigation.

Take the guesswork out of hacking and penetration testing with the ultimate guide to hacking with Kali Linux! If you've always wanted to get into hacking but weren't sure where to start, if you've ever trawled the web, looking for a reliable, easy-to-follow resource to help you get started with hacking or improve your skillset without much success, then look no further. You've come to the right place. In this guide, you're going to be exposed to the concept of hacking beyond the "hooded guy in a dark room tapping furiously at a backlit keyboard" stereotype. Using the powerful Kali Linux distribution, you're going to learn how to find loopholes and vulnerabilities in computer networks. The insights contained in this guide are so powerful and we encourage you to use them for good, ethical and white-hat reasons. Here's a preview of what you're going to learn in Hacking with Kali Linux What being a "hacker" really means and the four types of hackers in today's cyberspace A high-level overview of how hacking really works and how attackers cover their tracks Why Kali Linux is the perfect operating system platform of choice if you want to become a hacker Step-by-step instructions to install and set up Kali Linux with images 6 indispensable tools every modern hacker needs to have in their toolbox How to choose the best programming languages to learn as a newbie hacker How ethical and black hat hackers carry out reconnaissance and sniff out weaknesses in a computer network Surefire ways to protect your computer system and network from malicious attacks ...and much, much more! Whether you're a fledgling hacker looking to get your feet wet, or you're a pro looking to upgrade your hacking skills, this guide will show you how to find your way into almost all "secure" computer networks. Ready to begin your hacking journey? Scroll up and click the "Buy Now" button to get started today!

Delivers the cutting - edge of proven practices crafted to your needs for immediate and long - term success with your development efforts.

Safeguard your systems from all types of hackers, hijackers, and predators with help from author and consultant Konstantin Matev.

The #1 menace for computer systems worldwide, network hacking can result in mysterious server crashes, data loss, and other problems that are not only costly to fix but difficult to recognize. Author John Chirillo knows how these can be prevented, and in this book he brings to the table the perspective of someone who has been invited to break into the networks of many Fortune 1000 companies in order to evaluate their security policies and conduct security audits. He gets inside every detail of the hacker's world, including how hackers exploit security holes in private and public networks and how network hacking tools work. As a huge val-

ue-add, the author is including the first release of a powerful software hack attack tool that can be configured to meet individual customer needs.

Proven security tactics for today's mobile apps, devices, and networks "A great overview of the new threats created by mobile devices. ...The authors have heaps of experience in the topics and bring that to every chapter." -- Slashdot Hacking Exposed Mobile continues in the great tradition of the Hacking Exposed series, arming business leaders and technology practitioners with an in-depth understanding of the latest attacks and countermeasures---so they can leverage the power of mobile platforms while ensuring that security risks are contained." -- Jamil Farshchi, Senior Business Leader of Strategic Planning and Initiatives, VISA Identify and evade key threats across the expanding mobile risk landscape. Hacking Exposed Mobile: Security Secrets & Solutions covers the wide range of attacks to your mobile deployment alongside ready-to-use countermeasures. Find out how attackers compromise networks and devices, attack mobile services, and subvert mobile apps. Learn how to encrypt mobile data, fortify mobile platforms, and eradicate malware. This cutting-edge guide reveals secure mobile development guidelines, how to leverage mobile OS features and MDM to isolate apps and data, and the techniques the pros use to secure mobile payment systems. Tour the mobile risk ecosystem with expert guides to both attack and defense Learn how cellular network attacks compromise devices over-the-air See the latest Android and iOS attacks in action, and learn how to stop them Delve into mobile malware at the code level to understand how to write resilient apps Defend against server-side mobile attacks, including SQL and XML injection Discover mobile web attacks, including abuse of custom URI schemes and JavaScript bridges Develop stronger mobile authentication routines using OAuth and SAML Get comprehensive mobile app development security guidance covering everything from threat modeling to iOS- and Android-specific tips Get started quickly using our mobile pen testing and consumer security checklists

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?

CD-ROM contains: a selection of top security tools ready to install, live links to web sites where you can access the latest versions of the security tools mentioned in the book, and a default password database that contains a list of commonly used passwords.

With all-new coverage of home, mobile, and wireless issues, migrating from IP chains to IP tables, and protecting your network from users as well as hackers, this book provides immediate and effective Intrusion Detection System techniques. Contains practical solutions for every system administrator working with any Linux system, large or small.

Offers detailed information on Linux-specific internal and external hacks, explaining how to tighten and maintain security on Linux networks.

DescriptionBook teaches anyone interested to an in-depth discussion of what hacking is all about and how to save yourself. This book dives deep into:Basic security procedures one should follow to avoid being exploited. To identity theft.To know about password security essentials.How malicious hackers are profiting from identity and personal data theft. Book provides techniques and tools which are used by both criminal and ethical hackers, all the things that you will find here will show you how information security is compromised and how you can identify an attack in a system that you are trying to protect. Furthermore, you will also learn how you can minimize any damage to your system or stop an ongoing attack. This book is written for the benefit of the user to save himself from Hacking.Contents:HackingCyber Crime & SecurityComputer Network System and DNS WorkingHacking Skills & ToolsVirtualisation and Kali LinuxSocial Engineering & Reverse Social EngineeringFoot-printingScanningCryptographySteganographySystem HackingMalwareSniffingPacket Analyser & Session HijackingDenial of Service (DoS)AttackWireless Network HackingWeb Server and Application VulnerabilitiesPenetration TestingSurface WebDeep Web and Dark Net

The latest Web app attacks and countermeasures from world-renowned practitioners Protect your Web applications from malicious attacks by mastering the weapons and thought processes of today's hacker. Written by recognized security practitioners and thought leaders, Hacking Exposed Web Applications, Third Edition is fully updated to cover new infiltration methods and countermeasures. Find out how to reinforce authentication and authorization, plug holes in Firefox and IE, reinforce against injection attacks, and secure Web 2.0 features. Integrating security into the Web development lifecycle (SDL) and into the broader enterprise information security program is also covered in this comprehensive resource. Get full details on the hacker's footprinting, scanning, and profiling tools, including SHODAN, Maltego, and OWASP DirBuster See new exploits of popular platforms like Sun Java System Web Server and Oracle WebLogic in operation Understand how attackers defeat commonly used Web authentication technologies See how real-world session attacks leak sensitive data and how to fortify your applications Learn the most devastating methods used in today's hacks, including SQL injection, XSS, XSRF, phishing, and XML injection techniques Find and fix vulnerabilities in ASP.NET, PHP, and J2EE execution environments Safety deploy XML, social networking, cloud computing, and Web 2.0 services Defend against RIA, Ajax, UGC, and browser-based, client-side exploits Implement scalable threat modeling, code review, application scanning, fuzzing, and security testing procedures

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.

Learn to defend crucial ICS/SCADA infrastructure from devastating attacks the tried-and-true Hacking Exposed way This practical guide reveals the powerful weapons and devious methods cyber-terrorists use to compromise the devices, applications, and systems vital to oil and gas pipelines, electrical grids, and nuclear refineries. Written in the battle-tested Hacking Exposed style, the book arms you with the skills and tools necessary to defend against attacks that are debilitating—and potentially deadly. Hacking Exposed Industrial Control Systems: ICS and SCADA Security Secrets & Solutions explains vulnerabilities and attack vectors specific to ICS/SCADA protocols, applications, hardware, servers, and workstations. You will learn how hackers and malware, such as the infamous Stuxnet worm, can exploit them and disrupt critical processes, compromise safety, and bring production to a halt. The authors fully explain defense strategies and offer ready-to-deploy countermeasures. Each chapter features a real-world case study as well as notes, tips, and cautions. Features examples, code samples, and screenshots of ICS/SCADA-specific attacks Offers step-by-step vulnerability assessment and penetration test instruction Written by a team of ICS/SCADA security experts and edited by Hacking Exposed veteran Joel Scambray

Arm yourself for the escalating war against malware and rootkits Thwart debilitating cyber-attacks and dramatically improve your organization's security posture using the proven defense strategies in this thoroughly updated guide. Hacking ExposedTM Malware and Rootkits: Security Secrets & Solutions, Second Edition fully explains the hacker's latest methods alongside ready-to-deploy countermeasures. Discover how to block pop-up and phishing exploits, terminate embedded code, and identify and eliminate rootkits. You will get up-to-date coverage of intrusion detection, firewall, honeynet, antivirus, and anti-rootkit technology. • Learn how malware infects, survives, and propagates across an enterprise • See how hackers develop malicious code and target vulnerable systems • Detect, neutralize, and remove user-mode and kernel-mode rootkits • Use hypervisors and honeypots to uncover and kill virtual rootkits • Defend against keylogging, redirect, click fraud, and identity theft • Block spear phishing, client--side, and embedded-code exploits • Effectively deploy the latest antivirus, pop-up blocker, and firewall software • Identify and stop malicious processes using IPS solutions

The Latest Linux Security Solutions This authoritative guide will help you secure your Linux network--whether you use Linux as a desktop OS, for Internet services, for telecommunications, or for wireless services. Completely rewritten the ISECOM way, Hacking Exposed Linux, Third Edition provides the most up-to-date coverage available from a large team of topic-focused experts. The book is based on the latest ISECOM security research and shows you, in full detail, how to lock out intruders and defend your Linux systems against catastrophic attacks. Secure Linux by using attacks and countermeasures from the latest OSSTMM research Follow attack techniques of PSTN, ISDN, and PSDN over Linux Harden VoIP, Bluetooth, RF, RFID, and IR devices on Linux Block Linux signal jamming, cloning, and eavesdropping attacks Apply Trusted Computing and cryptography tools for your best defense Fix vulnerabilities in DNS, SMTP, and Web 2.0 services Prevent SPAM, Trojan, phishing, DoS, and DDoS exploits Find and repair errors in C code with static analysis and Hoare Logic

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

Discover the secret world of cybercrime In this book, we will go over many types of cybercrime and some famous cases. This book will show how hackers work, why they do it, how they make money and some ways we can take to avoid falling into those types of cybercrime. We will cover: Website Hacking, Server Hacking, Social Engineering Tools, Drug Trafficking, Illegal Content, Fake News, Cyber Stalking, Malware, Viruses, Spyware, Bots, Denial of Service, Phishing, Identity Theft, Ransomware, Salami Attack, Spam, Online Scams, Cyber Terrorism, Malvertising, Credit Card Theft and Fraud, Data Theft, Domain Hijacking As usual, the goal of this book is advocate for a safer internet.

With more than 600 security tools in its arsenal, the Kali Linux distribution can be overwhelming. Experienced and aspiring security professionals alike may find it challenging to select the most appropriate tool for conducting a given test. This practical book covers Kali's expansive security capabilities and helps you identify the tools you need to conduct a wide range of security tests and penetration tests. You'll also explore the vulnerabilities that make

those tests necessary. Author Ric Messier takes you through the foundations of Kali Linux and explains methods for conducting tests on networks, web applications, wireless security, password vulnerability, and more. You'll discover different techniques for extending Kali tools and creating your own toolset. Learn tools for stress testing network stacks and applications Perform network reconnaissance to determine what's available to attackers Execute penetration tests using automated exploit tools such as Metasploit Use cracking tools to see if passwords meet complexity requirements Test wireless capabilities by injecting frames and cracking passwords Assess web application vulnerabilities with automated or proxy-based tools Create advanced attack techniques by extending Kali tools or developing your own Use Kali Linux to generate reports once testing is complete

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.

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.

A hands-on guide to hacking computer systems from the ground up, from capturing traffic to crafting sneaky, successful trojans. A crash course in modern hacking techniques, Ethical Hacking is already being used to prepare the next generation of offensive security experts. In its many hands-on labs, you'll explore crucial skills for any aspiring penetration tester, security researcher, or malware analyst. You'll begin with the basics: capturing a victim's network traffic with an ARP spoofing attack and then viewing it in Wireshark. From there, you'll deploy reverse shells that let you remotely run commands on a victim's computer, encrypt files by writing your own ransomware in Python, and fake emails like the ones used in phishing attacks. In advanced chapters, you'll learn how to fuzz for new vulnerabilities, craft trojans and rootkits, exploit websites with SQL injection, and escalate your privileges to extract credentials, which you'll use to traverse a private network. You'll work with a wide range of professional penetration testing tools—and learn to write your own tools in Python—as you practice tasks like: • Deploying the Metasploit framework's reverse shells and embedding them in innocent-seeming files • Capturing passwords in a corporate Windows network using Mimikatz • Scanning (almost) every device on the internet to find potential victims • Installing Linux rootkits that modify a victim's operating system • Performing advanced Cross-Site Scripting (XSS) attacks that execute sophisticated JavaScript payloads Along the way, you'll gain a foundation in the relevant computing technologies. Discover how advanced fuzzers work behind the scenes, learn how internet traffic gets encrypted, explore the inner mechanisms of nation-state malware like Drovorub, and much more. Developed with feedback from cybersecurity students, Ethical Hacking addresses contemporary issues in the field not often covered in other books and will prepare you for a career in penetration testing. Most importantly, you'll be able to think like an ethical hacker: someone who can carefully analyze systems and creatively gain access to them.

You might expect a massive book about computer hacking to be tedious reading, but - surprise - this one is actually fun. You'll be impressed by the quality of the writing and the authors' clarity about complicated matters. Why have these clever writers gone public with information on how to hack into computers? They figure that hackers learn how to penetrate systems anyway. It's the network administrators and other professionals who need to understand hacking to protect their own vulnerabilities. The book, which is a bit dated now, given the programs it refers to, still conveys relevant principles about defending your work and your company from attack. getAbstract recommends it as an essential reference for businesspeople who want to know why system administrators always look twitchy. It's also a good tool for any computer professional whose day - or career - might be ruined by a single moment of system weakness.

Learn how to attack and defend the world's most popular web server platform Linux Server Security: Hack and Defend presents a detailed guide for experienced admins, aspiring hackers and other IT professionals seeking a more advanced understanding of Linux security. Written by a 20-year veteran of Linux server deployment this book provides the insight of experience along with highly practical instruction. The topics range from the theory of past, current, and future attacks, to the mitigation of a variety of online attacks, all the way to empowering you to perform numerous malicious attacks yourself (in the hope that you will learn how to defend against them). By increasing your understanding of a hacker's tools and mindset you're less likely to be confronted by the all-too-common reality faced by many admins these days: someone else has control of your systems. Master hacking tools and launch sophisticated attacks: perform SQL injections, deploy multiple server exploits and crack complex passwords. Defend systems and networks: make your servers invisible, be confident of your security with penetration testing and repel unwelcome attackers. Increase your background knowledge of attacks on systems and networks and improve all-important practical skills required to secure any Linux server. The techniques presented app-

ly to almost all Linux distributions including the many Debian and Red Hat derivatives and some other Unix-type systems. Further your career with this intriguing, deeply insightful, must-have technical book. Diverse, broadly-applicable and hands-on practical, Linux Server Security: Hack and Defend is an essential resource which will sit proudly on any techie's bookshelf.

This authoritative guide will help you secure your Linux network--whether you use Linux as a desktop OS, for Internet services, for telecommunications, or for wireless services. The book is based on the latest ISECOM security research and shows, in full detail, how to lock out intruders and defend your Linux systems against catastrophic attacks.

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

Requiring no prior hacking experience, Ethical Hacking and Penetration Testing Guide supplies a complete introduction to the steps required to complete a penetration test, or ethical hack, from beginning to end. You will learn how to properly utilize and interpret the results of modern-day hacking tools, which are required to complete a penetration test. The book covers a wide range of tools, including Backtrack Linux, Google reconnaissance, MetaGooFil, dig, Nmap, Nessus, Metasploit, Fast Track Autopwn, Netcat, and Hacker Defender rootkit. Supplying a simple and clean explanation of how to effectively utilize these tools, it details a four-step methodology for conducting an effective penetration test or hack.Providing an accessible introduction to penetration testing and hacking, the book supplies you with a fundamental understanding of offensive security. After completing the book you will be prepared to take on in-depth and advanced topics in hacking and penetration testing. The book walks you through each of the steps and tools in a structured, orderly manner allowing you to understand how the output from each tool can be fully utilized in the subsequent phases of the penetration test. This process will allow you to clearly see how the various tools and phases relate to each other. An ideal resource for those who want to learn about ethical hacking but dont know where to start, this book will help take your hacking skills to the next level. The topics described in this book comply with international standards and with what is being taught in international certifications.