

Kernel Security

Simson Garfinkel, Gene Spafford, Alan Schwartz

A Guide to Kernel Exploitation Enrico Perla, Massimiliano Oldani, 2010-10-28 *A Guide to Kernel Exploitation: Attacking the Core* discusses the theoretical techniques and approaches needed to develop reliable and effective kernel-level exploits, and applies them to different operating systems, namely, UNIX derivatives, Mac OS X, and Windows. Concepts and tactics are presented categorically so that even when a specifically detailed vulnerability has been patched, the foundational information provided will help hackers in writing a newer, better attack; or help pen testers, auditors, and the like develop a more concrete design and defensive structure. The book is organized into four parts. Part I introduces the kernel and sets out the theoretical basis on which to build the rest of the book. Part II focuses on different operating systems and describes exploits for them that target various bug classes. Part III on remote kernel exploitation analyzes the effects of the remote scenario and presents new techniques to target remote issues. It includes a step-by-step analysis of the development of a reliable, one-shot, remote exploit for a real vulnerability a bug affecting the SCTP subsystem found in the Linux kernel. Finally, Part IV wraps up the analysis on kernel exploitation and looks at what the future may hold. Covers a range of operating system families — UNIX derivatives, Mac OS X, Windows Details common scenarios such as generic memory corruption (stack overflow, heap overflow, etc.) issues, logical bugs and race conditions Delivers the reader from user-land exploitation to the world of kernel-land (OS) exploits/attacks, with a particular focus on the steps that lead to the creation of successful techniques, in order to give to the reader something more than just a set of tricks

Security Strategies in Linux Platforms and Applications Michael H. Jang, Ric Messier, 2017 The Second Edition of *Security Strategies in Linux Platforms and Applications* opens with a discussion of

risks, threats, and vulnerabilities. Part 2 discusses how to take advantage of the layers of security and the modules associated with AppArmor and SELinux. Part 3 looks at the use of open source and proprietary tools when building a layered sec

Information Security Practice and Experience Feng Bao,Jian Weng,2011-05-06 This book constitutes the refereed proceedings of the 7th International Conference on Information Security Practice and Experience, ISPEC 2011, held in Guangzhou, China, in May/June 2011. The 26 papers presented together with 6 short papers were carefully reviewed and selected from 108 submissions. They are grouped in sections on public key encryption, cloud security, security applications, post-quantum cryptography and side-channel attack, block ciphers and MACs, signature, secrete sharing and traitor tracing, system security and network security, and security protocols.

Practical Security Properties on Commodity Computing Platforms Amit Vasudevan,2019-09-20 This SpringerBrief discusses the uber eXtensible Micro-hypervisor Framework (uberXMHF), a novel micro-hypervisor system security architecture and framework that can isolate security-sensitive applications from other untrustworthy applications on commodity platforms, enabling their safe co-existence. uberXMHF, in addition, facilitates runtime monitoring of the untrustworthy components, which is illustrated in this SpringerBrief. uberXMHF focuses on three goals which are keys to achieving practical security on commodity platforms: (a) commodity compatibility (e.g., runs unmodified Linux and Windows) and unfettered access to platform hardware; (b) low trusted computing base and complexity; and (c) efficient implementation. uberXMHF strives to be a comprehensible, practical and flexible platform for performing micro-hypervisor research and development. uberXMHF encapsulates common hypervisor core functionality in a framework that allows developers and users to build custom micro-hypervisor based (security-sensitive) applications

(called uberapps). The authors describe several uberapps that employ uberXMHF and showcase the framework efficacy and versatility. These uberapps span a wide spectrum of security applications including application compartmentalization and sandboxing, attestation, approved code execution, key management, tracing, verifiable resource accounting, trusted-path and on-demand I/O isolation. The authors are encouraged by the end result - a clean, barebones, low trusted computing base micro-hypervisor framework for commodity platforms with desirable performance characteristics and an architecture amenable to manual audits and/or formal reasoning. Active, open-source development of uberXMHF continues. The primary audience for this SpringerBrief is system (security) researchers and developers of commodity system software. Practitioners working in system security deployment mechanisms within industry and defense, as well as advanced-level students studying computer science with an interest in security will also want to read this SpringerBrief.

Network and System Security Li Xu, Elisa Bertino, Yi Mu, 2012-11-19 This book constitutes the refereed proceedings of the 6th International Conference on Network and System Security, NSS 2012, held in Wuyishan, Fujian, China, in November 2012. The 39 revised full papers presented were carefully reviewed and selected from 173 submissions. The papers cover the following topics: network security, system security, public key cryptography, privacy, authentication, security analysis, and access control.

Linux Kernel Programming Kaiwan N Billimoria, 2021-03-19 Learn how to write high-quality kernel module code, solve common Linux kernel programming issues, and understand the fundamentals of Linux kernel internals Key Features Discover how to write kernel code using the Loadable Kernel Module framework Explore industry-grade techniques to perform efficient memory allocation and data synchronization within the kernel Understand the essentials of key internals topics such as kernel

architecture, memory management, CPU scheduling, and kernel synchronization

Book DescriptionLinux Kernel Programming is a comprehensive introduction for those new to Linux kernel and module development. This easy-to-follow guide will have you up and running with writing kernel code in next-to-no time. This book uses the latest 5.4 Long-Term Support (LTS) Linux kernel, which will be maintained from November 2019 through to December 2025. By working with the 5.4 LTS kernel throughout the book, you can be confident that your knowledge will continue to be valid for years to come. You'll start the journey by learning how to build the kernel from the source. Next, you'll write your first kernel module using the powerful Loadable Kernel Module (LKM) framework. The following chapters will cover key kernel internals topics including Linux kernel architecture, memory management, and CPU scheduling. During the course of this book, you'll delve into the fairly complex topic of concurrency within the kernel, understand the issues it can cause, and learn how they can be addressed with various locking technologies (mutexes, spinlocks, atomic, and refcount operators). You'll also benefit from more advanced material on cache effects, a primer on lock-free techniques within the kernel, deadlock avoidance (with lockdep), and kernel lock debugging techniques. By the end of this kernel book, you'll have a detailed understanding of the fundamentals of writing Linux kernel module code for real-world projects and products.

What you will learn

- Write high-quality modular kernel code (LKM framework) for 5.x kernels
- Configure and build a kernel from source
- Explore the Linux kernel architecture
- Get to grips with key internals regarding memory management within the kernel
- Understand and work with various dynamic kernel memory alloc/dealloc APIs
- Discover key internals aspects regarding CPU scheduling within the kernel
- Gain an understanding of kernel concurrency issues
- Find out how to work with key kernel synchronization primitives

Who this book is for This book is for Linux programmers beginning to find their way with Linux kernel

development. If you're a Linux kernel and driver developer looking to overcome frequent and common kernel development issues, or understand kernel internals, you'll find plenty of useful information. You'll need a solid foundation of Linux CLI and C programming before you can jump in.

SELinux by Example Frank Mayer, David Caplan, Karl MacMillan, 2006-07-27 SELinux: Bring World-Class Security to Any Linux Environment! SELinux offers Linux/UNIX integrators, administrators, and developers a state-of-the-art platform for building and maintaining highly secure solutions. Now that SELinux is included in the Linux 2.6 kernel—and delivered by default in Fedora Core, Red Hat Enterprise Linux, and other major distributions—it's easier than ever to take advantage of its benefits. SELinux by Example is the first complete, hands-on guide to using SELinux in production environments. Authored by three leading SELinux researchers and developers, it illuminates every facet of working with SELinux, from its architecture and security object model to its policy language. The book thoroughly explains SELinux sample policies— including the powerful new Reference Policy—showing how to quickly adapt them to your unique environment. It also contains a comprehensive SELinux policy language reference and covers exciting new features in Fedora Core 5 and the upcoming Red Hat Enterprise Linux version 5.

- Thoroughly understand SELinux's access control and security mechanisms
- Use SELinux to construct secure systems from the ground up
- Gain fine-grained control over kernel resources
- Write policy statements for type enforcement, roles, users, and constraints
- Use optional multilevel security to enforce information classification and manage users with diverse clearances
- Create conditional policies that can be changed on-the-fly
- Define, manage, and maintain SELinux security policies
- Develop and write new SELinux security policy modules
- Leverage emerging SELinux technologies to gain even greater flexibility
- Effectively administer any SELinux system

Practical UNIX and Internet Security Simson Garfinkel, Gene Spafford, Alan Schwartz, 2003-02-21

When Practical Unix Security was first published more than a decade ago, it became an instant classic. Crammed with information about host security, it saved many a Unix system administrator from disaster. The second edition added much-needed Internet security coverage and doubled the size of the original volume. The third edition is a comprehensive update of this very popular book - a companion for the Unix/Linux system administrator who needs to secure his or her organization's system, networks, and web presence in an increasingly hostile world. Focusing on the four most popular Unix variants today--Solaris, Mac OS X, Linux, and FreeBSD--this book contains new information on PAM (Pluggable Authentication Modules), LDAP, SMB/Samba, anti-theft technologies, embedded systems, wireless and laptop issues, forensics, intrusion detection, chroot jails, telephone scanners and firewalls, virtual and cryptographic filesystems, WebNFS, kernel security levels, outsourcing, legal issues, new Internet protocols and cryptographic algorithms, and much more. Practical Unix & Internet Security consists of six parts: Computer security basics: introduction to security problems and solutions, Unix history and lineage, and the importance of security policies as a basic element of system security. Security building blocks: fundamentals of Unix passwords, users, groups, the Unix filesystem, cryptography, physical security, and personnel security. Network security: a detailed look at modem and dialup security, TCP/IP, securing individual network services, Sun's RPC, various host and network authentication systems (e.g., NIS, NIS+, and Kerberos), NFS and other filesystems, and the importance of secure programming. Secure operations: keeping up to date in today's changing security world, backups, defending against attacks, performing integrity management, and auditing. Handling security incidents: discovering a break-in, dealing with programmed threats and denial of service attacks, and legal aspects of computer security.

Appendixes: a comprehensive security checklist and a detailed bibliography of paper and electronic references for further reading and research. Packed with 1000 pages of helpful text, scripts, checklists, tips, and warnings, this third edition remains the definitive reference for Unix administrators and anyone who cares about protecting their systems and data from today's threats.

Formal Verification of an Operating System Security Kernel Richard A. Kemmerer, 1982

Rootkits Greg Hoglund, James Butler, 2006 Hoglund and Butler show exactly how to subvert the Windows XP and Windows 2000 kernels, teaching concepts that are easily applied to virtually any modern operating system, from Windows Server 2003 to Linux and UNIX. Using extensive downloadable examples, they teach rootkit programming techniques that can be used for a wide range of software, from white hat security tools to operating system drivers and debuggers.--Jacket.

Network Security Hacks Andrew Lockhart, 2007 Introduces more than one hundred effective ways to ensure security in a Linux, UNIX, or Windows network, covering both TCP/IP-based services and host-based security techniques, with examples of applied encryption, intrusion detections, and logging.

Linux Kernel Debugging Kaiwan N Billimoria, 2022-08-05 Effectively debug kernel modules, device drivers, and the kernel itself by gaining a solid understanding of powerful open source tools and advanced kernel debugging techniques Key Features • Fully understand how to use a variety of kernel and module debugging tools and techniques using examples • Learn to expertly interpret a kernel Oops and identify underlying defect(s) • Use easy-to-look up tables and clear explanations of kernel-level defects to make this complex topic easy Book Description The Linux kernel is at the very core of arguably the world's best production-quality OS. Debugging it, though, can be a complex endeavor. Linux Kernel Debugging is a comprehensive guide to learning all about advanced kernel

debugging. This book covers many areas in-depth, such as instrumentation-based debugging techniques (printk and the dynamic debug framework), and shows you how to use Kprobes. Memory-related bugs tend to be a nightmare – two chapters are packed with tools and techniques devoted to debugging them. When the kernel gifts you an Oops, how exactly do you interpret it to be able to debug the underlying issue? We've got you covered. Concurrency tends to be an inherently complex topic, so a chapter on lock debugging will help you to learn precisely what data races are, including using KCSAN to detect them. Some thorny issues, both debug- and performance-wise, require detailed kernel-level tracing; you'll learn to wield the impressive power of Ftrace and its frontends. You'll also discover how to handle kernel lockups, hangs, and the dreaded kernel panic, as well as leverage the venerable GDB tool within the kernel (KGDB), along with much more. By the end of this book, you will have at your disposal a wide range of powerful kernel debugging tools and techniques, along with a keen sense of when to use which. What you will learn

- Explore instrumentation-based printk along with the powerful dynamic debug framework
- Use static and dynamic Kprobes to trap into kernel/module functions
- Catch kernel memory defects with KASAN, UBSAN, SLUB debug, and kmemleak
- Interpret an Oops in depth and precisely identify its source location
- Understand data races and use KCSAN to catch evasive concurrency defects
- Leverage Ftrace and trace-cmd to trace the kernel flow in great detail
- Write a custom kernel panic handler and detect kernel lockups and hangs
- Use KGDB to single-step and debug kernel/module source code

Who this book is for This book is for Linux kernel developers, module/driver authors, and testers interested in debugging and enhancing their Linux systems at the level of the kernel. System administrators who want to understand and debug the internal infrastructure of their Linux kernels will also find this book useful. A good grasp on C programming and the Linux command line is necessary. Some experience with

kernel (module) development will help you follow along.

Advanced Operating Systems and Kernel Applications: Techniques and Technologies

Wiseman, Yair, Jiang, Song, 2009-09-30 This book discusses non-distributed operating systems that benefit researchers, academicians, and practitioners--Provided by publisher.

Real World Linux Security Bob Toxen, 2003 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.

Rootkits and Bootkits Alex Matrosov, Eugene Rodionov, Sergey Bratus, 2019-05-03 Rootkits and Bootkits will teach you how to understand and counter sophisticated, advanced threats buried deep in a machine's boot process or UEFI firmware. With the aid of numerous case studies and professional research from three of the world's leading security experts, you'll trace malware development over time from rootkits like TDL3 to present-day UEFI implants and examine how they infect a system, persist through reboot, and evade security software. As you inspect and dissect real malware, you'll learn:

- How Windows boots—including 32-bit, 64-bit, and UEFI mode—and where to find vulnerabilities
- The details of boot process security mechanisms like Secure Boot, including an overview of Virtual Secure Mode (VSM) and Device Guard
- Reverse engineering and forensic techniques for analyzing real malware, including bootkits like Rovnix/Carberp, Gapz, TDL4, and the infamous rootkits TDL3 and Festi
- How to perform static and dynamic analysis using emulation and tools like Bochs and IDA Pro
- How to better understand the delivery stage of threats against BIOS and UEFI firmware in order to create detection capabilities
- How to use virtualization tools like VMware Workstation to reverse engineer bootkits and the Intel Chipsec tool to dig into forensic

analysis Cybercrime syndicates and malicious actors will continue to write ever more persistent and covert attacks, but the game is not lost. Explore the cutting edge of malware analysis with Rootkits and Bootkits. Covers boot processes for Windows 32-bit and 64-bit operating systems.

Linux Security Ramón J. Hontañón, 2006-02-20 Authoritative Answers to All Your Linux Security Questions—Specifically for Linux Administrators This is the most complete, most advanced guide to Linux security you'll find anywhere. Written by a Linux security expert with over a decade of experience, Linux Security teaches you, step-by-step, all the standard and advanced techniques you need to know to keep your Linux environment safe from threats of all kinds. Hundreds of clear, consistent examples illustrate these techniques in detail so you stay on track and accomplish all your goals. Coverage includes: Understanding information and system security procedures Developing a corporate security policy Designing and deploying an effective system and network monitoring strategy Managing the network services offered by Linux servers Understanding Sendmail security, including authentication and privacy Providing application-level mail security using PGP Designing and deploying an Apache HTTP server, including SSL extensions Securing your Samba server Building a network layer firewall using IPtables and Linux kernel v.2.4 Using the NEC SOCKS5 transport layer firewall Deploying the TIS firewall toolkit Offering secure remote connectivity with IPsec and PPTP VPNs Adding strong user authentication to Linux servers using Kerberos Understanding the Linux Pluggable Authentication Modules (PAM)

Control Engineering and Information Systems Zhijing Liu, 2015-01-19 Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems (ICCEIS 2014, Yueyang, Hunan, China, 20-22 June 2014). All major aspects of the theory and applications of control engineering and information systems are

addressed, including: – Intelligent systems – Teaching cases – Pattern recognition – Industry application – Machine learning – Systems science and systems engineering – Data mining – Optimization – Business process management – Evolution of public sector ICT – IS economics – IS security and privacy – Personal data markets – Wireless ad hoc and sensor networks – Database and system security – Application of spatial information system – Other related areas Control Engineering and Information Systems provides a valuable source of information for scholars, researchers and academics in control engineering and information systems.

Practical Linux Security Cookbook Tajinder Kalsi, 2018-08-31 Enhance file system security and learn about network attack, security tools and different versions of Linux build. Key Features Hands-on recipes to create and administer a secure Linux system Enhance file system security and local and remote user authentication Use various security tools and different versions of Linux for different tasks Book Description Over the last few years, system security has gained a lot of momentum and software professionals are focusing heavily on it. Linux is often treated as a highly secure operating system. However, the reality is that Linux has its share of security flaws, and these security flaws allow attackers to get into your system and modify or even destroy your important data. But there's no need to panic, since there are various mechanisms by which these flaws can be removed, and this book will help you learn about different types of Linux security to create a more secure Linux system. With a step-by-step recipe approach, the book starts by introducing you to various threats to Linux systems. Then, this book will walk you through customizing the Linux kernel and securing local files. Next, you will move on to managing user authentication both locally and remotely and mitigating network attacks. Later, you will learn about application security and kernel vulnerabilities. You will also learn about patching Bash vulnerability, packet filtering, handling incidents, and monitoring

system logs. Finally, you will learn about auditing using system services and performing vulnerability scanning on Linux. By the end of this book, you will be able to secure your Linux systems and create a robust environment. What you will learn

- Learn about vulnerabilities and exploits in relation to Linux systems
- Configure and build a secure kernel and test it
- Learn about file permissions and how to securely modify files
- Authenticate users remotely and securely copy files on remote systems
- Review different network security methods and tools
- Perform vulnerability scanning on Linux machines using tools
- Learn about malware scanning and read through logs

Who this book is for This book is intended for all those Linux users who already have knowledge of Linux file systems and administration. You should be familiar with basic Linux commands. Understanding information security and its risks to a Linux system is also helpful in understanding the recipes more easily.

SELinux Bill McCarty, 2005 Offers a readable, practical introduction and step-by-step procedural manual for the installation, configuration, and use of SELinux, a kernel module and set of Linux programs developed by the National Security Agency to help protect computers running on Linux. Original. (All users).

Learn Kubernetes Security Kaizhe Huang, Pranjal Jumde, 2020-07-09 Secure your container environment against cyberattacks and deliver robust deployments with this practical guide

Key Features

- Explore a variety of Kubernetes components that help you to prevent cyberattacks
- Perform effective resource management and monitoring with Prometheus and built-in Kubernetes tools
- Learn techniques to prevent attackers from compromising applications and accessing resources for crypto-currency mining

Book Description Kubernetes is an open source orchestration platform for managing containerized applications. Despite widespread adoption of the technology, DevOps engineers might be unaware of the pitfalls of containerized environments. With this comprehensive book, you'll learn

how to use the different security integrations available on the Kubernetes platform to safeguard your deployments in a variety of scenarios. Learn Kubernetes Security starts by taking you through the Kubernetes architecture and the networking model. You'll then learn about the Kubernetes threat model and get to grips with securing clusters. Throughout the book, you'll cover various security aspects such as authentication, authorization, image scanning, and resource monitoring. As you advance, you'll learn about securing cluster components (the kube-apiserver, CoreDNS, and kubelet) and pods (hardening image, security context, and PodSecurityPolicy). With the help of hands-on examples, you'll also learn how to use open source tools such as Anchore, Prometheus, OPA, and Falco to protect your deployments. By the end of this Kubernetes book, you'll have gained a solid understanding of container security and be able to protect your clusters from cyberattacks and mitigate cybersecurity threats. What you will learn

Understand the basics of Kubernetes architecture and networking
Gain insights into different security integrations provided by the Kubernetes platform
Delve into Kubernetes' threat modeling and security domains
Explore different security configurations from a variety of practical examples
Get to grips with using and deploying open source tools to protect your deployments
Discover techniques to mitigate or prevent known Kubernetes hacks

Who this book is for This book is for security consultants, cloud administrators, system administrators, and DevOps engineers interested in securing their container deployments. If you're looking to secure your Kubernetes clusters and cloud-based deployments, you'll find this book useful. A basic understanding of cloud computing and containerization is necessary to make the most of this book.

Kernel Security: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Kernel Security : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young

man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Kernel Security Introduction

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