

FreeBSD Device Drivers: A Guide For The Intrepid

Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

The definitive biography of emo rock band My Chemical Romance, based on hours of exclusive, unpublished interviews by the journalist who knows them best

FreeBSD is a powerful, flexible, and cost-effective UNIX-based operating system, and the preferred server platform for many enterprises. Includes coverage of installation, networking, add-on software, security, network services, system performance, kernel tweaking, file systems, SCSI & RAID configurations, SMP, upgrading, monitoring, crash debugging, BSD in the office, and emulating other OSs.

Essential System Administration,3rd Edition is the definitive guide for Unix system administration, covering all the fundamental and essential tasks required to run such divergent Unix systems as AIX, FreeBSD, HP-UX, Linux, Solaris, Tru64 and more. Essential System Administration provides a clear, concise, practical guide to the real-world issues that anyone responsible for a Unix system faces daily.The new edition of this indispensable reference has been fully updated for all the latest operating systems. Even more importantly, it has been extensively revised and expanded to consider the current system administrative topics that administrators need most. Essential System Administration,3rd Edition covers: DHCP, USB devices, the latest automation tools, SNMP and network management, LDAP, PAM, and recent security tools and techniques.Essential System Administration is comprehensive. But what has made this book the guide system administrators turn to over and over again is not just the sheer volume of valuable information it provides, but the clear, useful way the information is presented. It discusses the underlying higher-level concepts, but it also provides the details of the procedures needed to carry them out. It is not organized around the features of the Unix operating system, but around the various facets of a system administrator's job. It describes all the usual administrative tools that Unix provides, but it also shows how to use them intelligently and efficiently.Whether you use a standalone Unix system, routinely provide administrative support for a larger shared system, or just want an understanding of basic administrative functions, Essential System Administration is for you. This comprehensive and invaluable book combines the author's years of practical experience with technical expertise to help you manage Unix systems as productively and painlessly as possible.

Tools and Techniques for Linux and Unix Administration

Absolute BSD

A Guide for the Intrepid

Losing Joe's Place

Building Embedded Linux Systems

A Guide to Kernel Exploitation

Linux® is being adopted by an increasing number of embedded systems developers, who have been won over by its sophisticated scheduling and networking, its cost-free license, its open development model, and the support offered by rich and powerful programming tools. While there is a great deal of hype surrounding the use of Linux in embedded systems, there is not a lot of practical information. Building Embedded Linux Systems is the first in-depth, hard-core guide to putting together an embedded system based on the Linux kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using an efficient embedded development framework Selecting, configuring, building, and installing a target-specific kernel Creating a complete target root filesystem Setting up, manipulating, and using solid-state storage devices Installing and configuring a bootloader for the target Cross-compiling a slew of utilities and packages Debugging your embedded system using a plethora of tools and techniques Details are provided for various target architectures and hardware configurations, including a thorough review of Linux's support for embedded hardware. All explanations rely on the use of open source and free software packages. By presenting how to build the operating system components from pristine sources and how to find more documentation or help, this book greatly simplifies the task of keeping complete control over one's embedded operating system, whether it be for technical or sound financial reasons. Author Karim Yaghmour, a well-known designer and speaker who is responsible for the Linux Trace Toolkit, starts by discussing the strengths and weaknesses of Linux as an embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration, setup, and use of over forty different open source and free software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, tftpd, strace, and gdb are among the packages discussed.

Provides a solid foundation for those considering a career in IT—covers the objectives of the new Linux Essentials Exam 010-160 v1.6 Linux is a secure, reliable, open source alternative to costly operating systems such as Microsoft Windows. As large organizations worldwide continue to add Linux servers, the need for IT professionals skilled in Linux continues to grow. The LPI Linux Essentials Study Guide is a valuable resource for anyone preparing to take the new Linux Essentials Exam—the entry-level certification from The Linux Professional Institute (LPI) which validates knowledge of Linux concepts and applications. Written by recognized experts on Linux and open source technologies, this accessible, user-friendly guide covers desktop skills, the command line, directories and files, networks, scripting, security, users and permissions, and much more. Clear, concise chapters provide numerous hands-on tutorials, real-world examples, color illustrations, and practical end-of-chapter exercises and review questions. An ideal introduction for those new to Linux or considering a career in IT, this guide helps readers: Learn the operation and components of Linux desktops and servers Understand open

source software, licensing, and applications Configure networks, security, cloud services, storage, and devices Create users and groups and set permissions and ownership Use the command line and build automation scripts LPI Linux Essentials Study Guide: Exam 010 v1.6 is perfect for anyone beginning a career in IT, newcomers to Linux, students in computer courses, and system administrators working with other operating systems wanting to learn more about Linux and other open source solutions.

This book is for all people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone.

Bring a new herb into your kitchen with this tasty unique collection of recipes for bite-sized, low-dose sweet and savory cannabis edibles. This cookbook ventures boldly beyond pot brownies with delicious and unique baked confections as well as innovative savory treats. Designed for bakers and cooks of all skill levels, *Edibles: Small Bites for the Modern Cannabis Kitchen* includes simple recipes like spiced superfood truffles and roasted beet hummus, alongside more advanced recipes like artisanal marshmallows and Gruyère & green garlic gougères—all brought to life with vibrant photography. Complete with instructions for creating master ingredients such as canna butters, oils, honey, and maple syrup, as well as information on dosage and portions and the science of cannabis, this cookbook slash baking book gives cannabis newbies and connoisseurs alike the info they need to create an easy, safe, and delicious edibles experience.

- A DIY recipe book for beginner and advanced cannabis bakers
- Contains detailed information on correct dosage and portions
- Provides tips, tricks and tools of the trade

Author Stephanie Hua is the founder and chief confectioner of the popular gourmet edibles line, Mellows, and co-author Coreen Carroll is a winner on the Netflix television series *Cooked with Cannabis*, executive chef, and cofounder a dining pop-up, *Cannaisseur Series*, which hosts curated cannabis and culinary experiences, events, and workshops. Those who like *The Easy Cannabis Cookbook: 60+ Medical Marijuana Recipes for Sweet and Savory Edibles*, *Bong Appétit: Mastering the Art of Cooking with Weed*, and *Marijuana Edibles: 40 Easy and Delicious Cannabis-Infused Desserts* and other cannabis cookbooks will want to add *Edibles* to their collection.

- Delightful addition to any foodie's book shelf
- Thoughtful gift for anyone who enjoys cooking, baking, and eating edibles
- Cannabis-curious cookbook collectors will appreciate these unique recipes

The True Lives of My Chemical Romance

FreeBSD Handbook

Small Bites for the Modern Cannabis Kitchen

Linux Kernel Development

Designing BSD Rootkits

Hot Wheels: The Big Race Seek and Find

“As an author, editor, and publisher, I never paid much attention to the competition—except in a few cases. This is one of

those cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against.” —Tim O’Reilly, founder of O’Reilly Media “This edition is for those whose systems live in the cloud or in virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers, and all the other worker bees who inhabit the modern hive.” —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security “This book is fun and functional as a desktop reference. If you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems’ history but doesn’t bloviate. It’s just straight-forward information delivered in a colorful and memorable fashion.” —Jason A. Nunnelley UNIX® and Linux® System Administration Handbook, Fifth Edition, is today’s definitive guide to installing, configuring, and maintaining any UNIX or Linux system, including systems that supply core Internet and cloud infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration, security, web hosting, automation, configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The authors—world-class, hands-on technologists—offer indispensable new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this conversational, well-written guide will improve your efficiency and help solve your knottiest problems.

How to build low-cost, royalty-free embedded solutions with eCos, covers eCos architecture, installation, configuration, coding, debugging, bootstrapping, porting, and more, includes open source tools on CD-ROM for a complete embedded software development environment with eCos as the core.

OpenBSD, the elegant, highly secure Unix-like operating system, is widely used as the basis for critical DNS servers, routers, firewalls, and more. This long-awaited second edition of Absolute OpenBSD maintains author Michael Lucas's trademark straightforward and practical approach that readers have enjoyed for years. You'll learn the intricacies of the platform, the technical details behind certain design decisions, and best practices, with bits of humor sprinkled throughout. This edition has been completely updated for OpenBSD 5.3, including new coverage of OpenBSD's boot system, security features like W^X and ProPolice, and advanced networking techniques. You'll learn how to:

- Manage network traffic with VLANs, trunks, IPv6, and the PF packet filter
- Make software management quick and effective using the ports and packages system
- Give users only the access they need with groups, sudo, and chroots
- Configure OpenBSD's secure implementations of SNMP, DHCP, NTP, hardware sensors, and more
- Customize the installation and upgrade processes for your network and hardware, or build a custom OpenBSD release

Whether you're a new user looking for a complete introduction to OpenBSD or an experienced sysadmin looking for a refresher, Absolute OpenBSD, 2nd Edition will give you everything you need to master the intricacies of the world's most secure operating system.

The FreeBSD Handbook is the definitive FreeBSD tutorial and reference. This revised third edition has been expanded into a two Volume set filled with updated information on the latest FreeBSD technologies. This first volume provides step by step instructions and installing FreeBSD on a PC, setting up a graphical desktop environment, and installing additional third party software.

The Complete Guide to FreeBSD

Volume1: User Guide

100% Officially Licensed by Mattel, Over 200 Stickers, Perfect for Car Rides for Kids Ages 4 to 8 Years Old

Talking Directly to the Kernel and C Library

Absolute FreeBSD, 3rd Edition

FreeBSD Mastery: Advanced ZFS

"Designing BSD Rootkits" introduces the fundamentals of programming and developing rootkits under the FreeBSD operating system. Written in a friendly, accessible style and sprinkled with geek humor and pop culture references, the author favors a "learn by example" approach that assumes no prior kernel hacking experience.

To thoroughly understand what makes Linux tick and why it's so efficient, you need to delve deep into the heart of the operating system--into the Linux kernel itself. The kernel is Linux--in the case of the Linux operating system, it's the only bit of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time, and in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of Understanding the Linux Kernel takes you on a guided tour through the most significant data structures, many algorithms, and programming tricks used in the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments of code are dissected and discussed line by line. The book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does things the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail. Other topics in the book include: Memory management including file buffering, process swapping, and Direct memory Access (DMA) The Virtual Filesystem and the Second Extended Filesystem Process creation and scheduling Signals, interrupts, and the essential interfaces to device drivers Timing Synchronization in the kernel Interprocess Communication (IPC) Program execution Understanding the Linux Kernel, Second Edition will

acquaint you with all the inner workings of Linux, but is more than just an academic exercise. You'll learn what conditions bring out Linux's best performance, and you'll see how it meets the challenge of providing good system response during process scheduling, file access, and memory management in a wide variety of environments. If knowledge is power, then this book will help you make the most of your Linux system.

Device drivers make it possible for your software to communicate with your hardware, and because every operating system has specific requirements, driver writing is nontrivial. When developing for FreeBSD, you've probably had to scour the Internet and dig through the kernel sources to figure out how to write the drivers you need. Thankfully, that stops now. In *FreeBSD Device Drivers*, Joseph Kong will teach you how to master everything from the basics of building and running loadable kernel modules to more complicated topics like thread synchronization. After a crash course in the different FreeBSD driver frameworks, extensive tutorial sections dissect real-world drivers like the parallel port printer driver. You'll learn: –All about Newbus, the infrastructure used by FreeBSD to manage the hardware devices on your system –How to work with ISA, PCI, USB, and other buses –The best ways to control and communicate with the hardware devices from user space –How to use Direct Memory Access (DMA) for maximum system performance –The inner workings of the virtual null modem terminal driver, the USB printer driver, the Intel PCI Gigabit Ethernet adapter driver, and other important drivers –How to use Common Access Method (CAM) to manage host bus adapters (HBAs) Concise descriptions and extensive annotations walk you through the many code examples. Don't waste time searching man pages or digging through the kernel sources to figure out how to make that arcane bit of hardware work with your system. *FreeBSD Device Drivers* gives you the framework that you need to write any driver you want, now.

From the author of *The Monsters Know What They 're Doing* comes a follow-up strategy guide with *MOAR! monster tactics for Dungeon Masters playing fifth edition Dungeons & Dragons*. Keith Ammann 's first book based on his popular blog, *The Monsters Know What They 're Doing*, unpacks strategies, tactics, and motivations for creatures found in the *Dungeons & Dragons Monster Manual*. Now, in *MOAR! Monsters Know What They 're Doing*, he analyzes the likely combat behaviors of more than 100 new enemies found in *Volo 's Guide to Monsters* and *Mordenkainen 's Tome of Foes*. Your campaign will never be the same!

FreeBSD Architecture Handbook

Develop customized drivers for embedded Linux

A No-Nonsense Guide to the OpenBSD Firewall

Love Cecil

Edibles

MOAR! Monsters Know What They're Doing

This updated edition of Michael W. Lucas' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new features added in the last 10 years. FreeBSD is the muscle behind companies like Netflix and EMC. Any place where someone does heavy lifting on the Internet, you'll find FreeBSD. This newly revised edition of Absolute FreeBSD brings FreeBSD's strengths to bear on your problems and covers FreeBSD's newest features, all in the inimitable style that has made author Michael W. Lucas' system administration books so popular. Any computer system is only as good as the system administrator's knowledge. Absolute FreeBSD teaches you everything you need to know about managing FreeBSD systems, from installation, configuration, and taking the system from "just working" to "working well." A cohesive focus on service delivery and best practice means that you can apply much of the book to other operating systems. Absolute FreeBSD dives deep into server management, taking you beyond just making things work and into understanding why they work. You'll learn:

- How to best install FreeBSD to meet your needs
- Which filesystem to use in your environment
- How to back up and restore critical data
- How to tweak the kernel, and when not to
- Network configuration, from activating interfaces to selecting congestion control algorithms
- How to manage UFS, ZFS, and other critical filesystems
- FreeBSD's software packaging system, including how to build your own package repository
- How and when to upgrade
- Techniques to build your own FreeBSD
- Advanced security features like blacklistd and packet filtering
- How to monitor and adjust performance
- Container-style virtualization with jails
- Diskless systems
- Panic management and bug reporting

With Absolute FreeBSD you will get the solid introduction you need; and if you're a fan of the earlier editions, you will expand your skills even further.

This book contains comprehensive, up-to-date, and authoritative technical information on the internal structure of the FreeBSD open-source operating system. Coverage includes the capabilities of the system; how to effectively and efficiently interface to the system; how to maintain, tune, and configure the operating system; and how to extend and enhance the system. The authors provide a concise overview of FreeBSD's design and implementation. Then, while explaining key design decisions, they detail the concepts, data structures, and algorithms used in implementing the systems facilities. As a result, this book can be used as an operating systems textbook, a practical reference, or an in-depth study of a contemporary, portable, open-source operating system. -- Provided by publisher.

An in-depth guide of the FreeBSD Operating System Architecture. This manual is available online for free at freebsd.org. This manual is printed in grayscale.

ZFS improves everything about systems administration. Once you peek under the hood, though, ZFS' bewildering array of knobs and tunables can overwhelm anyone. ZFS experts can make their servers zing—and now you can, too, with *FreeBSD Mastery: Advanced ZFS*. This small book teaches you to:

- Use boot environments to make the riskiest sysadmin tasks boring
- Delegate filesystem privileges to users
- Containerize ZFS datasets with jails
- Quickly and efficiently replicate data between machines
- split layers off of mirrors
- optimize ZFS block storage
- handle large storage arrays
- select caching strategies to improve performance
- manage next-generation storage hardware
- identify and remove bottlenecks
- build screaming fast database storage
- dive deep into pools, metaslabs, and more!

Whether you manage a single small server or international datacenters, simplify your storage with *FreeBSD Mastery: Advanced ZFS*.

The UNIX-haters Handbook

A Journey with Cecil Beaton

Linux Network Administrator's Guide

Not the Life It Seems

FreeBSD Device Drivers

Embedded Software Development with ECos

This answer book provides complete working solutions to the exercises in the definitive Design and Implementation of the 4.3bsd UNIX Operating System. It covers the internal structure of the 4.3bsd system and the concepts, data structures, and algorithms used in implementing the system facilities.

A guide to the features of Samba-3 provides step-by-step installation instructions on integrating Samba into a Windows or UNIX environment.

In Love, Cecil, Lisa Immordino Vreeland offers an evocative portrait of this talented whirlwind whose creative work captured many facets of the 20th century. Using photography, drawings, letters, and scrapbooks by Beaton and his contemporaries, along with excerpts from his sparkling diaries and other writings, Immordino Vreeland brings his spirit to life in a way that no previous book has been able to do. Immordino Vreeland organizes her book around the circles of Beaton's daily life: the people who inspired and influenced him, his colorful friends, his fellow photographers, his Hollywood conquests, his wartime service, and his English roots. This cavalcade offers a shimmering vision of high style, but it also captures often-troubled souls struggling to create the open, tolerant, creative worlds of art and culture that we have inherited today.

This is an expert guide to the 2.6 Linux Kernel's most important component: the Virtual Memory Manager.

Essential System Administration

An Introduction to Kernel Hacking

Understanding the Linux Virtual Memory Manager

The FreeBSD Handbook

Absolute OpenBSD, 2nd Edition

Exam 010 v1.6

FreeBSD—the powerful, flexible, and free Unix-like operating system—is the preferred server for many enterprises. But it can be even trickier to use than either Unix or Linux, and harder still to master. Absolute FreeBSD, 2nd Edition is your complete guide to FreeBSD, written by FreeBSD committer Michael W. Lucas. Lucas considers this completely revised and rewritten second edition of his landmark work to be his best work ever; a true product of his love for FreeBSD and the support of the FreeBSD community. Absolute FreeBSD, 2nd Edition covers installation, networking, security, network services, system performance, kernel tweaking, filesystems, SMP, upgrading, crash debugging, and much more, including coverage of how to: – Use advanced security features like packet filtering, virtual machines, and host-based intrusion detection – Build custom live FreeBSD CDs and bootable flash – Manage network services and filesystems – Use DNS and set up email, IMAP, web, and FTP services for both servers and clients – Monitor your system with performance-testing and troubleshooting tools – Run diskless systems – Manage schedulers, remap shared libraries, and optimize your system for your hardware and your workload – Build custom network appliances with embedded FreeBSD – Implement redundant disks, even without special hardware – Integrate FreeBSD-specific SNMP into your network management system. Whether you're just getting started with FreeBSD or you've been using it for years, you'll find this book to be the definitive guide to FreeBSD that you've been waiting for.

Learn to develop customized device drivers for your embedded Linux system About This Book Learn to develop customized Linux device drivers Learn the core concepts of device drivers such as memory management, kernel caching, advanced IRQ management, and so on.

Practical experience on the embedded side of Linux Who This Book Is For This book will help anyone who wants to get started with

developing their own Linux device drivers for embedded systems. Embedded Linux users will benefit highly from this book. This book covers all about device driver development, from char drivers to network device drivers to memory management. What You Will Learn Use kernel facilities to develop powerful drivers Develop drivers for widely used I2C and SPI devices and use the regmap API Write and support devicetree from within your drivers Program advanced drivers for network and frame buffer devices Delve into the Linux irqdomain API and write interrupt controller drivers Enhance your skills with regulator and PWM frameworks Develop measurement system drivers with IIO framework Get the best from memory management and the DMA subsystem Access and manage GPIO subsystems and develop GPIO controller drivers In Detail Linux kernel is a complex, portable, modular and widely used piece of software, running on around 80% of servers and embedded systems in more than half of devices throughout the World. Device drivers play a critical role in how well a Linux system performs. As Linux has turned out to be one of the most popular operating systems used, the interest in developing proprietary device drivers is also increasing steadily. This book will initially help you understand the basics of drivers as well as prepare for the long journey through the Linux Kernel. This book then covers drivers development based on various Linux subsystems such as memory management, PWM, RTC, IIO, IRQ management, and so on. The book also offers a practical approach on direct memory access and network device drivers. By the end of this book, you will be comfortable with the concept of device driver development and will be in a position to write any device driver from scratch using the latest kernel version (v4.13 at the time of writing this book). Style and approach A set of engaging examples to develop Linux device drivers

Based upon the authors' experience in designing and deploying an embedded Linux system with a variety of applications, Embedded Linux System Design and Development contains a full embedded Linux system development roadmap for systems architects and software programmers. Explaining the issues that arise out of the use of Linux in embedded systems, the book facilitates movement to embedded Linux from traditional real-time operating systems, and describes the system design model containing embedded Linux. This book delivers practical solutions for writing, debugging, and profiling applications and drivers in embedded Linux, and for understanding Linux BSP architecture. It enables you to understand: various drivers such as serial, I2C and USB gadgets; uClinux architecture and its programming model; and the embedded Linux graphics subsystem. The text also promotes learning of methods to reduce system boot time, optimize memory and storage, and find memory leaks and corruption in applications. This volume benefits IT managers in planning to choose an embedded Linux distribution and in creating a roadmap for OS transition. It also describes the application of the Linux licensing model in commercial products.

Master the techniques needed to build great, efficient embedded devices on Linux About This Book Discover how to build and configure reliable embedded Linux devices This book has been updated to include Linux 4.9 and Yocto Project 2.2 (Morty) This comprehensive guide covers the remote update of devices in the field and power management Who This Book Is For If you are an engineer who wishes to understand and use Linux in embedded devices, this book is for you. It is also for Linux developers and system programmers who are familiar with embedded systems and want to learn and program the best in class devices. It is appropriate for students studying embedded techniques, for developers implementing embedded Linux devices, and engineers supporting existing Linux devices. What You Will Learn Evaluate the Board Support Packages offered by most manufacturers of a system on chip or embedded module Use Buildroot and the Yocto Project to create embedded Linux systems quickly and efficiently Update IoT devices in the field without compromising security Reduce the power budget of devices to make batteries last longer Interact with the hardware without having to write kernel device drivers Debug devices

remotely using GDB, and see how to measure the performance of the systems using powerful tools such as `perf`, `ftrace`, and `valgrind` Find out how to configure Linux as a real-time operating system In Detail Embedded Linux runs many of the devices we use every day, from smart TVs to WiFi routers, test equipment to industrial controllers - all of them have Linux at their heart. Linux is a core technology in the implementation of the inter-connected world of the Internet of Things. The comprehensive guide shows you the technologies and techniques required to build Linux into embedded systems. You will begin by learning about the fundamental elements that underpin all embedded Linux projects: the toolchain, the bootloader, the kernel, and the root filesystem. You'll see how to create each of these elements from scratch, and how to automate the process using Buildroot and the Yocto Project. Moving on, you'll find out how to implement an effective storage strategy for flash memory chips, and how to install updates to the device remotely once it is deployed. You'll also get to know the key aspects of writing code for embedded Linux, such as how to access hardware from applications, the implications of writing multi-threaded code, and techniques to manage memory in an efficient way. The final chapters show you how to debug your code, both in applications and in the Linux kernel, and how to profile the system so that you can look out for performance bottlenecks. By the end of the book, you will have a complete overview of the steps required to create a successful embedded Linux system. Style and approach This book is an easy-to-follow and pragmatic guide with in-depth analysis of the implementation of embedded devices. It follows the life cycle of a project from inception through to completion, at each stage giving both the theory that underlies the topic and practical step-by-step walkthroughs of an example implementation.

Documentation from the Source

LPI Linux Essentials Study Guide

Book of PF, 3rd Edition

The Complete FreeBSD

The Design and Implementation of the FreeBSD Operating System

Unix for the Practical Paranoid

UNIX, UNIX LINUX & UNIX TCL/TK. Write software that makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the system level, and this book helps you focus on everything above the kernel, where applications such as Apache, bash, cp, vim, Emacs, gcc, gdb, glibc, ls, mv, and X exist. Written primarily for engineers looking to program at the low level, this updated edition of Linux System Programming gives you an understanding of core internals that makes for better code, no matter where it appears in the stack. -- Provided by publisher.

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 vulnerabilitya 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 Jason and his two friends are about to have the ultimate summer experience, because they've just taken over Jason's cool older brother Joe's apartment for the summer. Now all they have to do is just say no: No parents. No rules. No problems. Right? Wrong. And Jason's brother hasn't even found out what happened to his apartment. Yet.

OpenBSD's stateful packet filter, PF, is the heart of the OpenBSD firewall. With more and more services placing high demands on bandwidth and an increasingly hostile Internet environment, no sysadmin can afford to be without PF expertise. The third edition of The Book of PF covers the most up-to-date developments in PF, including new content on IPv6, dual stack configurations, the "queues and priorities" traffic-shaping system, NAT and redirection, wireless networking, spam fighting, failover provisioning, logging, and more. You'll also learn how to: * Create rule sets for all kinds of network traffic, whether crossing a simple LAN, hiding behind NAT, traversing DMZs, or spanning bridges or wider networks * Set up wireless networks with access points, and lock them down using authpf and special access restrictions * Maximize flexibility and service availability via CARP, relayd, and redirection * Build adaptive firewalls to proactively defend against attackers and spammers * Harness OpenBSD's latest traffic-shaping system to keep your network responsive, and convert your existing ALTQ configurations to the new system * Stay in control of your traffic with monitoring and visualization tools (including NetFlow) The Book of PF is the essential guide to building a secure network with PF. With a little effort and this book, you'll be well prepared to unlock PF's full potential.

The Day She Died

Running Linux

Mastering Embedded Linux Programming

The Ultimate Guide to FreeBSD

Linux Device Drivers Development

Understanding the Linux Kernel

After a traumatic head injury, Eve questions every memory and motive in this mind-bending psychological thriller. Eve Gold's birthdays are killers, and her twenty-seventh birthday proves to be no different. But for the up-and-coming Vancouver artist, facing death isn't the real shock — it's what comes after. Recovering from a near-fatal accident, Eve is determined to return to the life she's always wanted: a successful artistic career, marriage to the man who once broke her heart, and another chance at motherhood. But brain damage leaves her forgetful, confused, and tortured by repressed memories of a deeply troubled childhood, where her innocence was stolen one lie — and one suspicious death — at a time. As the dark, twisted pages unfold, Eve must choose between clinging to the lies that helped her survive her childhood and unearthing the secrets she buried long ago.

You may be contemplating your first Linux installation. Or you may have been using Linux for years and need to know more about adding a network printer or setting up an FTP server. Running Linux, now in its fifth edition, is the book you'll want on

hand in either case. Widely recognized in the Linux community as the ultimate getting-started and problem-solving book, it answers the questions and tackles the configuration issues that frequently plague users, but are seldom addressed in other books. This fifth edition of *Running Linux* is greatly expanded, reflecting the maturity of the operating system and the teeming wealth of software available for it. Hot consumer topics such as audio and video playback applications, groupware functionality, and spam filtering are covered, along with the basics in configuration and management that always have made the book popular. *Running Linux* covers basic communications such as mail, web surfing, and instant messaging, but also delves into the subtleties of network configuration--including dial-up, ADSL, and cable modems--in case you need to set up your network manually. The book can make you proficient on office suites and personal productivity applications--and also tells you what programming tools are available if you're interested in contributing to these applications. Other new topics in the fifth edition include encrypted email and filesystems, advanced shell techniques, and remote login applications. Classic discussions on booting, package management, kernel recompilation, and X configuration have also been updated. The authors of *Running Linux* have anticipated problem areas, selected stable and popular solutions, and provided clear instructions to ensure that you'll have a satisfying experience using Linux. The discussion is direct and complete enough to guide novice users, while still providing the additional information experienced users will need to progress in their mastery of Linux. Whether you're using Linux on a home workstation or maintaining a network server, *Running Linux* will provide expert advice just when you need it. *Hot Wheels cars and drivers are hiding all around the racetracks. Can you find them? Fuel your excitement with this awesome activity book where it's up to you to find what's missing! Search all around different scenic racetracks to find hidden Hot Wheels cars and other objects as they embark on an epic race. With over 200 stickers to use on 32 pages of vibrant, full-color art, this book will delight Hot Wheels fans both on and off the racetrack! Parents can give their kids the green light to pack this book in their backpacks for on-the-go fun. This title is officially licensed by Mattel.*

This practical guidebook explains not only how to get a computer up and running with the FreeBSD operating system, but how to turn it into a highly functional and secure server that can host large numbers of users and disks, support remote access and provide key parts of the Inter

Absolute FreeBSD, 2nd Edition

Attacking the Core

Linux Device Drivers

The Official Samba-3 HOWTO and Reference Guide

Linux System Programming

UNIX and Linux System Administration Handbook

The FreeBSD Handbook is a comprehensive FreeBSD tutorial and reference. It covers installation, day-to-day use of FreeBSD, and much more, such as the Ports collection, creating a custom kernel, security topics, the X Window System,

how to use FreeBSD's Linux binary compatibility, and how to upgrade your system from source using the 'make world' command, to name a few.

This introduction to networking on Linux now covers firewalls, including the use of ipchains and Netfilter, masquerading, and accounting. Other new topics in this second edition include Novell (NCP/IPX) support and INN (news administration).

A Distribution-Neutral Guide for Servers and Desktops

Embedded Linux System Design and Development

The Design and Implementation of the 4.3BSD UNIX Operating System Answer Book