

Unix The Ultimate Guide

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.

O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages. Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it. The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the information applies to any Linux system. Throw in a host of valuable power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux users. This guide was written for readers interested in learning the C++ programming language from scratch, and for both novice and advanced C++ programmers wishing to enhance their knowledge of C++. The text is organized to guide the reader from elementary language concepts to professional software development, with in depth coverage of all the C++ language elements en route.

“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.

A guide to using Postfix covers such topics as filtering spam and viruses, authenticating users, encrypting with TLS, and setting up mail gateways.

Ubuntu Linux is the fastest growing Linux-based operating system, and Beginning Ubuntu Linux, Fifth Edition teaches all of us—including those who have never used Linux—how to use it productively, whether you come from Windows or the Mac or the world of open source. Beginning Ubuntu Linux, Fifth Edition shows you how to take advantage of Lucid Lynx. Based on the best-selling previous edition, Emilio Raggi maintains a fine balance between teaching Ubuntu and introducing new features. Whether you aim to use it in the home or in the office, you'll be introduced to the world of Ubuntu Linux, from simple word processing to using cloud services. You'll learn how to control the Ubuntu system, which you just installed from the book's DVD, as you are guided through common tasks such as configuring the system's graphical user interface (GUI), listening to audio CDs and MP3s, producing documents, using VoIP and chat, and of course, general system maintenance. This book also supplies a series of comprehensive tutorials on Ubuntu administration and security—essential for any Ubuntu user—while not neglecting matters pertaining to office applications and the cloud.

Covering all aspects of the Unix operating system and assuming no prior knowledge of Unix, this book begins with the fundamentals and works from the ground up to some of the more advanced programming techniques. The authors provide a wealth of real-world experience with the Unix operating system, delivering actual examples while showing some of the common misconceptions and errors that new users make. Special emphasis is placed on the Apple Mac OS X environment as well as Linux, Solaris, and migrating from Windows to Unix. A unique conversion section of the book details specific advice and instructions for transitioning Mac OS X, Windows, and Linux users.

This book is the ultimate reference for both beginners and power users to PC-BSD—the free, easy-to-use operating system based on FreeBSD. Existing power users will learn how to look under the hood and contribute to the global PC-BSD community. PC-BSD is turning into a hassle-free alternative to Linux on the desktop. Enjoy secure, virus-free computing. Quickly become a power user.

Written with a clear, straightforward writing style and packed with step-by-step projects for direct, hands-on learning,

Guide to UNIX Using Linux, 4E is the perfect resource for learning UNIX and Linux from the ground up. Through the use of practical examples, end-of-chapter reviews, and interactive exercises, novice users are transformed into confident UNIX/Linux users who can employ utilities, master files, manage and query data, create scripts, access a network or the Internet, and navigate popular user interfaces and software. The updated 4th edition incorporates coverage of the latest versions of UNIX and Linux, including new versions of Red Hat, Fedora, SUSE, and Ubuntu Linux. A new chapter has also been added to cover basic networking utilities, and several other chapters have been expanded to include additional information on the KDE and GNOME desktops, as well as coverage of the popular OpenOffice.org office suite. With a strong focus on universal UNIX and Linux commands that are transferable to all versions of Linux, this book is a must-have for anyone seeking to develop their knowledge of these systems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Your UNIX: The Ultimate Guide is both an outstanding pedagogical tool and an exhaustive reference. It is the ideal text for any Unix course. It can also be used for any introductory programming course that includes Unix and for advanced courses such as those on Operating Systems and System Administration. Excellent pedagogy is implemented throughout. Real-world examples make it easier for students to grasp concepts while "Going Further" sections take more advanced students beyond the basics. Over nine hundred exercises allow students to test and reinforce their understanding of material at different levels. This book also features coverage of Linux, which is well marked so that instructors can choose to either include it in their courses or omit it. Additionally, Your UNIX has the most extensive set of indices and appendices currently available in a Unix text.

Linux For Beginners! Updated April 2016 The Ultimate Beginners Crash Course To Learning & Mastering Linux Are You Ready To Learn How To Use, Master & Configure Linux? If So You've Come To The Right Place - Regardless Of How Little Experience You May Have! There's a ton of other technical guides out there that aren't clear and concise, and in my opinion use far too much jargon. My job is to teach you in simple, easy to follow terms how to get started and excel at Linux! Here's A Preview Of What Linux For Beginners Contains... An Introduction to Linux Installing Linux - Exactly What You Need To Know Server Vs. Desktop Editions - Variations Of Linux Explained Tasks & Commands You Need To Know To Master Linux How To Effortlessly Navigate Through Your Linux Operating System File Editing - How To Use VIM Advanced Navigation & Linux Controls And Much, Much More! Order Your Copy Now And Let's Get Started!

This book is an exploration of Shell programming, also referred to as Bash Scripting. It begins by guiding you on how to automate the various tasks in UNIX by using the Shell scripts. The book also guides you on the effective steps on how to write the Shell scripts. In UNIX, we should come up with an effective mechanism for management of file systems and software packages. This book guides you on the effective way to do this in Shell. You are also guided on how to use the various UNIX editors such as the Vim editor, nano, and GNOME. You will learn how to use the various shortcuts provided by these text editors, as well as how to navigate within your file opened in the text editor. Structured commands, which are very common in Shell, are discussed in detail. You will learn how to use such statements for decision-making as well as for looping through your program. You are also guided on how to manipulate your text, as well as how to use regular expressions. In some programs, it is good for you to implement a mechanism for accepting user input and then making a decision based on that input. This book clearly guides you on how to do this in Bash scripting. Command line arguments have also been explored in detail. The following topics are discussed in this book: - Automate Tasks with Simple Script Utilities - Creating Shell Scripts - Manage Filesystems and Software Packages - Work with nano, KDE, and GNOME editors - Structured Commands, Text Manipulation, and Regular Expressions - Keyboard Input - Command Line Arguments

As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities, and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling reference brings Unix into the 21st century. It's been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of this operating system in all its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here are some of the new features you'll find in Unix in a Nutshell, Fourth Edition: Solaris 10, the latest version of the SVR4-based operating system, GNU/Linux, and Mac OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program installation on popular GNU/Linux systems, Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed, certain commands that were once critical have fallen into disuse. To that end, the book has also dropped material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With chapter overviews, specific examples, and detailed command.

More than 50 percent new and revised content for today's Linux environment gets you up and running in no time! Linux continues to be an excellent, low-cost alternative to expensive operating systems. Whether you're new to Linux or need a reliable update and reference, this is an excellent resource. Veteran bestselling author Christopher Negus provides a complete tutorial packed with major updates, revisions, and hands-on exercises so that you can confidently start using Linux today. Offers a complete restructure, complete with exercises, to make the book a better learning tool Places a strong focus on the Linux command line tools and can be used with all distributions and versions of Linux Features in-depth coverage of the tools that a power user and a Linux administrator need to get started This practical learning tool is ideal for anyone eager to set up a new Linux desktop system at home or curious to learn how to manage Linux server

systems at work.

You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to: * Create and delete files, directories, and symlinks * Administer your system, including networking, package installation, and process management * Use standard input and output, redirection, and pipelines * Edit files with Vi, the world's most popular text editor * Write shell scripts to automate common or boring tasks * Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

"As this book shows, Linux systems are just as functional, secure, and reliable as their proprietary counterparts. Thanks to the ongoing efforts of thousands of Linux developers, Linux is more ready than ever for deployment at the frontlines of the real world. The authors of this book know that terrain well, and I am happy to leave you in their most capable hands." –Linus Torvalds "The most successful sysadmin book of all time—because it works!" –Rik Farrow, editor of ;login: "This book clearly explains current technology with the perspective of decades of experience in large-scale system administration. Unique and highly recommended." –Jonathan Corbet, cofounder, LWN.net "Nemeth et al. is the overall winner for Linux administration: it's intelligent, full of insights, and looks at the implementation of concepts." –Peter Salus, editorial director, Matrix.net Since 2001, Linux Administration Handbook has been the definitive resource for every Linux® system administrator who must efficiently solve technical problems and maximize the reliability and performance of a production environment. Now, the authors have systematically updated this classic guide to address today's most important Linux distributions and most powerful new administrative tools. The authors spell out detailed best practices for every facet of system administration, including storage management, network design and administration, web hosting, software configuration management, performance analysis, Windows interoperability, and much more. Sysadmins will especially appreciate the thorough and up-to-date discussions of such difficult topics such as DNS, LDAP, security, and the management of IT service organizations. Linux® Administration Handbook, Second Edition, reflects the current versions of these leading distributions: Red Hat® Enterprise Linux® Fedora™ Core SUSE® Linux Enterprise Debian® GNU/Linux Ubuntu® Linux Sharing their war stories and hard-won insights, the authors capture the behavior of Linux systems in the real world, not just in ideal environments. They explain complex tasks in detail and illustrate these tasks with examples drawn from their extensive hands-on experience.

Are you serious about network security? Then check out SSH, the Secure Shell, which provides key-based authentication and transparent encryption for your network connections. It's reliable, robust, and reasonably easy to use, and both free and commercial implementations are widely available for most operating systems. While it doesn't solve every privacy and security problem, SSH eliminates several of them very effectively. Everything you want to know about SSH is in our second edition of SSH, The Secure Shell: The Definitive Guide. This updated book thoroughly covers the latest SSH-2 protocol for system administrators and end users interested in using this increasingly popular TCP/IP-based solution. How does it work? Whenever data is sent to the network, SSH automatically encrypts it. When data reaches its intended recipient, SSH decrypts it. The result is "transparent" encryption—users can work normally, unaware that their communications are already encrypted. SSH supports secure file transfer between computers, secure remote logins, and a unique "tunneling" capability that adds encryption to otherwise insecure network applications. With SSH, users can freely navigate the Internet, and system administrators can secure their networks or perform remote administration. Written for a wide, technical audience, SSH, The Secure Shell: The Definitive Guide covers several implementations of SSH for different operating systems and computing environments. Whether you're an individual running Linux machines at home, a corporate network administrator with thousands of users, or a PC/Mac owner who just wants a secure way to telnet or transfer files between machines, our indispensable guide has you covered. It starts with simple installation and use of SSH, and works its way to in-depth case studies on large, sensitive computer networks. No matter where or how you're shipping information, SSH, The Secure Shell: The Definitive Guide will show you how to do it securely.

Have you ever wanted to become a Linux System Administrator? Or did you want to learn more about the operating system? If you answered yes to these questions, you have come to the right place. The motive of this book is to get you well versed with the Linux operating system and the profile known to the world as Linux System Administration. A Linux system admin is basically a superhero who owns the servers of an organization and makes sure that they never go down. Servers in an organization contain user data, which is the most important thing in the modern world. Loss of data can result in huge losses for an organization and even lawsuits. Over the course of the book, you will gather information about the following: This book will prepare you with the knowledge that is essential to enter the field of Linux system administration. You will learn about the operating system called Red Hat Enterprise Linux 7 and how to install it. After installing you will learn about the tasks that are essential for a system in their day-to-day life. You will learn about the command line in Linux, which is used extensively by system admins to perform tasks using important commands. You will further get to know about the Linux File System hierarchy and how to navigate your way through files and directories in the Linux operating system. You will also understand how processes work in the Linux system and how you can use commands and signals to manage system processes as well as processes started manually. You will learn about SSH, which is one of the most used tools in Linux systems to create secure connections between two Linux systems on a private network or over the Internet. You will study how to analyze logs in the Linux system and how to read them to understand errors and how to fix those errors. And much more ! All in all, the book is aimed at preparing you to enter the world of Linux system administration such that you can pursue a career in an organization, which demand this role on a very large scale.

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.

DB2® 9 builds on the world's number one enterprise database to simplify the delivery of information as a service, accelerate

development, and dramatically improve operational efficiency, security, and resiliency. Now, this new edition offers complete, start-to-finish coverage of DB2 9 administration and development for Linux®, UNIX®, and Windows® platforms, as well as authoritative preparation for the latest IBM DB2 certification exam. Written for both DBAs and developers, this definitive reference and self-study guide covers all aspects of deploying and managing DB2 9, including DB2 database design and development; day-to-day administration and backup; deployment of networked, Internet-centered, and SOA-based applications; migration; and much more. You'll also find an unparalleled collection of expert tips for optimizing performance, availability, and value. Coverage includes: Important security and resiliency enhancements, including advanced access control; fine-grained, label-based security; and the new security administrator role Breakthrough pureXML™ features that make it easier to succeed with service-oriented architecture Operational improvements that enhance DBA efficiency--including self-tuning memory allocation, automated storage management, and storage optimization Table-partitioning features that improve scalability and manageability Powerful improvements for more agile and rapid development, including the new Eclipse-based Developer Workbench and simple SQL or XQuery access to all data Whatever your role in working with DB2 or preparing for certification, DB2 9 for Linux, UNIX, and Windows, Sixth Edition is the one book you can't afford to be without. Download Complete DB2 V9 Trial Version Visit ibm.com/db2/9/download.html to download a complete trial version of DB2, which enables you to try out dozens of the most powerful features of DB2 for yourself: everything from pureXML support to automated administration and optimization. Straight from IBM, the ultimate guide to running DB2 9 and preparing for the latest IBM DB2 certification exam! Covers powerful DB2 9 enhancements ranging from automated management to improved compression Covers the full spectrum of DBA responsibilities, including server management, data placement, XML concepts, activity analysis, high availability, and security Presents expert tips and best practices from the DB2 customer support organization

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.

The Definitive UNIX Resource--Fully Updated Get cutting-edge coverage of the newest releases of UNIX--including Solaris 10, all Linux distributions, HP-UX, AIX, and FreeBSD--from this thoroughly revised, one-stop resource for users at all experience levels. Written by UNIX experts with many years of experience starting with Bell Laboratories, UNIX: The Complete Reference, Second Edition provides step-by-step instructions on how to use UNIX and take advantage of its powerful tools and utilities. Get up-and-running on UNIX quickly, use the command shell and desktop, and access the Internet and e-mail. You'll also learn to administer systems and networks, develop applications, and secure your UNIX environment. Up-to-date chapters on UNIX desktops, Samba, Python, Java Apache, and UNIX Web development are included. Install, configure, and maintain UNIX on your PC or workstation Work with files, directories, commands, and the UNIX shell Create and modify text files using powerful text editors Use UNIX desktops, including GNOME, CDE, and KDE, as an end user or system administrator Use and manage e-mail, TCP/IP networking, and Internet services Protect and maintain the security of your UNIX system and network Share devices, printers, and files between Windows and UNIX systems Use powerful UNIX tools, including awk, sed, and grep Develop your own shell, Python, and Perl scripts, and Java, C, and C++ programs under UNIX Set up Apache Web servers and develop browser-independent Web sites and applications

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.

Finally, you can learn computation theory and programming language design in an engaging, practical way. Understanding Computation explains theoretical computer science in a context you'll recognize, helping you appreciate why these ideas matter and how they can inform your day-to-day programming. Rather than use mathematical notation or an unfamiliar academic programming language like Haskell or Lisp, this book uses Ruby in a reductionist manner to present formal semantics, automata theory, and functional programming with the lambda calculus. It's ideal for programmers versed in modern languages, with little or no formal training in computer science. Understand fundamental computing concepts, such as Turing completeness in languages Discover how programs use dynamic semantics to communicate ideas to machines Explore what a computer can do when reduced to its bare essentials Learn how universal Turing machines led to today's general-purpose computers Perform complex calculations, using simple languages and cellular automata Determine which programming language features are essential for computation Examine how halting and self-referencing make some computing problems unsolvable Analyze programs by using abstract interpretation and type systems

A complete guide and reference to five major Linux distributions Linux continues to grow in popularity worldwide as a low-cost, reliable operating system for enterprise use. Nine minibooks in this guide cover everything administrators need to know about the five leading versions: Ubuntu, Fedora Core, OpenSUSE, Mint, and Mandriva. The companion DVD includes full Ubuntu installations and ISO images for the other four, saving hours of downloading time. The open source Linux operating system is gaining market share around the world for both desktop and server use; this soup-to-nuts guide covers installation and everything else administrators need to know about Ubuntu, Fedora Core, OpenSUSE, Mint, and Mandriva Nine self-contained minibooks cover Linux basics, desktops, networking, Internet, administration, security, Linux servers, programming, and scripting Updated to cover the newest versions of the five top distributions, with complete installation instructions and a DVD including the full Ubuntu installations and ISO images for the others Linux users and administrators will be able to install and sample five popular Linux flavors with the information in Linux All-in-One For Dummies. Note: CD-ROM/DVD and other

supplementary materials are not included as part of eBook file.

The Third Edition Incorporates Major Revisions, Moderate Additions, And Minor Deletions. It Focuses On The Two Major Versions Of Unix - Solaris And Linux. The Two-Part Structure Of The Previous Edition Has Been Maintained. The Fundamental Aspects Of The System Are Covered In Part I, Whereas The Intermediate And Advanced Concepts Are Explained In Part II. Salient Features : Two New Chapters On Unix Systems Programming - The File And Process Control. Complete Chapter Devoted To Tcp/Ip Network Of Administration. Enhanced Coverage On Linux. Updated Coverage On The Internet And The Http Protocol. End-Of-Chapter Questions Grouped Under Test Your Understanding With Answers In Appendix C And Flex Your Brain. Also Conforms To The Latest Revised Doeacca Level Syllabus Effective July 2003.

Your UNIX/Linux: The Ultimate Guide, written with both users and programmers in mind, is the ultimate UNIX/Linux text. Both pedagogical tool and exhaustive reference, it is well-suited to any course that includes UNIX or Linux. A strong pedagogical framework sets it apart from similar texts and allows beginning students to gain a firm grasp of fundamental concepts, while chapters on advanced topics inspire the more experienced reader to move beyond the basics. Nearly a thousand exercises and self-test questions provide a way for students to test and reinforce their understanding of the material.

Summary Linux in Action is a task-based tutorial that will give you the skills and deep understanding you need to administer a Linux-based system. This hands-on book guides you through 12 real-world projects so you can practice as you learn. Each chapter ends with a review of best practices, new terms, and exercises. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You can't learn anything without getting your hands dirty— including Linux. Skills like securing files, folders, and servers, safely installing patches and applications, and managing a network are required for any serious user, including developers, administrators, and DevOps professionals. With this hands-on tutorial, you'll roll up your sleeves and learn Linux project by project. About the Book Linux in Action guides you through 12 real-world projects, including automating a backup-and-restore system, setting up a private Dropbox-style file cloud, and building your own MediaWiki server. You'll try out interesting examples as you lock in core practices like virtualization, disaster recovery, security, backup, DevOps, and system troubleshooting. Each chapter ends with a review of best practices, new terms, and exercises. What's inside Setting up a safe Linux environment Managing secure remote connectivity Building a system recovery device Patching and upgrading your system About the Reader No prior Linux admin experience is required. About the Author David Clinton is a certified Linux Server Professional, seasoned instructor, and author of Manning's bestselling Learn Amazon Web Services in a Month of Lunches. Table of Contents Welcome to Linux Linux virtualization: Building a Linux working environment Remote connectivity: Safely accessing networked machines Archive management: Backing up or copying entire file systems Automated administration: Configuring automated offsite backups Emergency tools: Building a system recovery device Web servers: Building a MediaWiki server Networked file sharing: Building a Nextcloud file-sharing server Securing your web server Securing network connections: Creating a VPN or DMZ System monitoring: Working with log files Sharing data over a private network Troubleshooting system performance issues Troubleshooting network issues Troubleshooting peripheral devices DevOps tools: Deploying a scripted server environment using Ansible

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

A revised and updated edition offers comprehensive coverage of ECMAScript 5 (the new JavaScript language standard) and also the new APIs introduced in HTML5, with chapters on functions and classes completely rewritten and updated to match current best practices and a new chapter on language extensions and subsets. Original.

Shell scripting skills never go out of style. It's the shell that unlocks the real potential of Unix. Shell scripting is essential for Unix users and system administrators—a way to quickly harness and customize the full power of any Unix system. With shell scripts, you can combine the fundamental Unix text and file processing commands to crunch data and automate repetitive tasks. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. Classic Shell Scripting is written to help you reliably navigate these tricky waters. Writing shell scripts requires more than just a knowledge of the shell language, it also requires familiarity with the individual Unix programs: why each one is there, how to use them by themselves, and in combination with the other programs. The authors are intimately familiar with the tips and tricks that can be used to create excellent scripts, as well as the traps that can make your best effort a bad shell script. With Classic Shell Scripting you'll avoid hours of wasted effort. You'll learn not only write useful shell scripts, but how to do it properly and portably. The ability to program and customize the shell quickly, reliably, and portably to get the best out of any individual system is an important skill for anyone operating and maintaining Unix or Linux systems. Classic Shell Scripting gives you everything you need to master these essential skills.

This book was the first and only approved reference on UNIX System V Release 4.0 internals. It responds to the hundreds of requests for solutions to the exercises. The solutions are complete and full explanations with appropriate examples of code offering real value. More than simple answers, the Solutions offer insight and practical information. Postfix is a Mail Transfer Agent (MTA): software that mail servers use to route email. Postfix is highly respected by experts for its secure design and tremendous reliability. And new users like it because it's so simple to configure. In fact, Postfix has been adopted as the default MTA on Mac OS X. It is also compatible with sendmail, so that existing scripts and programs continue to work seamlessly after it is installed. Postfix was written by well-known security expert Wietse Venema, who reviewed this book intensively during its entire development. Author Kyle Dent covers a wide range of Postfix tasks, from virtual hosting to controls for unsolicited commercial email. While basic configuration of Postfix is easy, every site has unique needs that call for a certain amount of study. This book, with careful background explanations and generous examples, eases readers from the basic configuration to the full power of Postfix. It discusses the Postfix interfaces to various tools that round out a fully scalable and highly secure email system. These tools include POP, IMAP, LDAP, MySQL, Simple Authentication and Security Layer (SASL), and Transport Layer Security (TLS, an upgrade of SSL). A reference section for Postfix configuration parameters and an installation guide are included. Topics include: Basic installation and configuration DNS configuration for email Working with POP/IMAP servers Hosting multiple domains (virtual hosting) Mailing lists Handling unsolicited email (spam blocking) Security through SASL and TLS From compiling and installing Postfix to troubleshooting, Postfix: The Definitive Guide offers system administrators and anyone who deals with Postfix an all-in-one, comprehensive tutorial and reference to this MTA.

An ideal pocket-sized book easy to take anywhere, this book shows users how to use tools such as Finder and Dock, plus an overview of the System Preferences, Terminal applications, and the developer Tools.

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