

Ubuntu Pocket Guide And Reference Pdf

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Programming Linux Games - Loki Software, Inc 2001

Explains how to build a scrolling game engine, play sound effects, manage compressed audio streams, build multiplayer games, construct installation scripts, and distribute games to the Linux community.

Guide to Assembly Language Programming in Linux -

Sivarama P. Dandamudi 2005-07-15

Introduces Linux concepts to programmers who are familiar with other operating systems such as Windows XP Provides comprehensive coverage of the Pentium assembly language

Ubuntu Hacks - Jonathan Oxer 2006-06-14

Ubuntu Linux--the most popular Linux distribution on the planet--preserves the spirit embodied in the ancient African word ubuntu, which means both "humanity to others" and "I am what I am because of who we all are." Ubuntu won the Linux Journal Reader's Choice Award for best Linux distribution and is consistently the top-ranked Linux variant on DistroWatch.com.

The reason this distribution is so widely popular is that Ubuntu is designed to be useful, usable, customizable, and always available for free worldwide. Ubuntu Hacks is your one-stop source for all of the community knowledge you need to get the most out of Ubuntu: a collection of 100 tips and tools to help new and experienced Linux users install, configure, and customize Ubuntu. With this set of hacks, you can get Ubuntu Linux working exactly the way you need it to. Learn how to: Install and test-drive Ubuntu Linux. Keep your system running smoothly Turn Ubuntu into a multimedia powerhouse: rip and burn discs, watch videos, listen to music, and more Take Ubuntu on the road with Wi-Fi wireless networking, Bluetooth, etc. Hook up multiple displays and enable your video card's 3-D acceleration Run Ubuntu with virtualization technology such as Xen and VMware Tighten your system's security Set up an Ubuntu-powered server Ubuntu Hacks will not only show you how to get everything working just right, you will also have a great time doing it as you explore the powerful features lurking within Ubuntu. "Put in a nutshell, this book is a collection of around 100 tips and tricks which the authors choose to call hacks, which explain how to accomplish various tasks in Ubuntu Linux. The so called hacks range from down right ordinary to the other end of the spectrum of doing specialised things...More over, each and every tip in this book has been tested by the authors on the latest version of Ubuntu (Dapper Drake) and is guaranteed to work. In writing this book, it is clear that the authors have put in a lot of hard work in covering all facets of configuring this popular Linux distribution which makes this book a worth while buy." -- Ravi Kumar, Slashdot.org

Linux For Dummies - Richard Blum 2009-07-17

One of the fastest ways to learn Linux is with this perennial favorite Eight previous top-selling editions of Linux For Dummies can't be wrong. If you've been wanting to migrate to Linux, this book is the best way to get there. Written in easy-to-follow, everyday terms, Linux For Dummies 9th Edition gets you started by concentrating on two distributions of Linux that beginners love: the Ubuntu LiveCD distribution and the gOS Linux distribution, which comes pre-installed on Everex computers. The book also covers the full Fedora distribution. Linux is an open-source operating system and a low-cost or free alternative to Microsoft Windows; of numerous distributions of Linux, this book covers Ubuntu Linux, Fedora Core Linux, and gOS Linux, and includes them on the DVD. Install new open source software via Synaptic or RPM package managers Use free software to browse the Web, listen to music, read e-mail, edit photos, and even run Windows in a virtualized environment Get acquainted with the

Linux command line If you want to get a solid foundation in Linux, this popular, accessible book is for you. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

C Programming in Linux -

Learning the bash Shell - Cameron Newham 2005-03-29

O'Reilly's bestselling book on Linux's bash shell is at it again.

Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security

UNIX and Linux System Administration Handbook - Evi Nemeth 2017-09-14

"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.

[Understanding the Linux Kernel](#) - Daniel Pierre Bovet 2002

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.

How To Code in Go - Mark Bates 2020-06-11

[The UNIX-haters Handbook](#) - Simson Garfinkel 1994

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.

Ubuntu, Migration and Ministry - Elina Hankela 2014-05-28

In Ubuntu, Migration and Ministry Elina Hankela engages with the socio-moral meanings of ubuntu (Nguni: humanness/humanity) in contemporary Johannesburg drawing on ethnographic fieldwork at the Central Methodist Mission, a Johannesburg inner-city church that has been re-shaped in the face of international migration.

[grep Pocket Reference](#) - John Bambenek 2009-01-14

grep Pocket Reference is the first guide devoted to grep, the powerful Unix content-location utility. This handy book is ideal for system administrators, security professionals, developers, and others who want to learn more about grep and take new approaches with it -- for everything from mail filtering and system log management to malware analysis. With grep Pocket Reference, you will: Learn methods for filtering large files for specific content Acquire information not included in the current grep documentation Get several tricks for using variants such as egrep Keep key information about grep right at your fingertips

Find the answers you need about grep quickly and easily. If you're familiar with this utility, grep Pocket Reference will help you refresh your basic knowledge, understand rare situations, and work more efficiently. If you're new to grep, this book is the best way to get started.

Free Software, Free Society - Richard Stallman 2002

Essay Collection covering the point where software, law and social justice meet.

[A Practical Guide to Ubuntu Linux](#) - Mark G. Sobell 2011

The Most Complete, Easy-to-Follow Guide to Ubuntu Linux The #1 Ubuntu server resource, fully updated for Ubuntu 10.4 (Lucid Lynx)-the Long Term Support (LTS) release many companies will rely on for years! Updated JumpStarts help you set up Samba, Apache, Mail, FTP, NIS, OpenSSH, DNS, and other complex servers in minutes Hundreds of up-to-date examples, plus comprehensive indexes that deliver instant access to answers you can trust Mark Sobell's A Practical Guide to Ubuntu Linux®, Third Edition, is the most thorough and up-to-date reference to installing, configuring, and working with Ubuntu, and also offers comprehensive coverage of servers--critical for anybody interested in unleashing the full power of Ubuntu. This edition has been fully updated for Ubuntu 10.04 (Lucid Lynx), a milestone Long Term Support (LTS) release, which Canonical will support on desktops until 2013 and on servers until 2015. Sobell walks you through every essential feature and technique, from installing Ubuntu to working with GNOME, Samba, exim4, Apache, DNS, NIS, LDAP, g ufw, firestarter, iptables, even Perl scripting. His exceptionally clear explanations demystify everything from networking to security. You'll find full chapters on running Ubuntu from the command line and desktop (GUI), administrating systems, setting up networks and Internet servers, and much more. Fully updated JumpStart sections help you get complex servers running--often in as little as five minutes. Sobell draws on his immense Linux knowledge to explain both the "hows" and the "whys" of Ubuntu. He's taught hundreds of thousands of readers and never forgets what it's like to be new to Linux. Whether you're a user, administrator, or programmer, you'll find everything you need here--now, and for many years to come. The world's most practical Ubuntu Linux book is now even more useful! This book delivers Hundreds of easy-to-use Ubuntu examples Important networking coverage, including DNS, NFS, and Cacti Coverage of crucial Ubuntu topics such as sudo and the Upstart init daemon More detailed, usable coverage of Internet server configuration, including Apache (Web) and exim4 (email) servers State-of-the-art security techniques, including up-to-date firewall setup techniques using gufw and iptables, and a full chapter on OpenSSH A complete introduction to Perl scripting for automated administration Deeper coverage of essential admin tasks--from managing users to CUPS printing, configuring LANs to building a kernel Complete instructions on keeping Ubuntu systems up-to-date using aptitude, Synaptic, and the Software Sources window And much more...including a 500+ term glossary Includes DVD! Get the full version of Lucid Lynx, the latest Ubuntu LTS release!

Asterisk - Jim Van Meggelen 2007-08-28

Provides information on Asterisk, an open source telephony application.

Linux Pocket Guide - Daniel J. Barrett 2004-02-18

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.

Raspberry Pi User Guide - Eben Upton 2016-08-29

Learn the Raspberry Pi 3 from the experts! *Raspberry Pi User Guide*, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3. Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices Understand Linux System Admin nomenclature and conventions Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon. Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The *Raspberry Pi User Guide*, 3rd Edition is your ultimate roadmap to discovery.

The Official Ubuntu Server Book - Kyle Rankin 2009-07-17

Ubuntu Server is a complete, free server operating system that just works, with the extra Ubuntu polish, innovation, and simplicity that administrators love. Now, there's a definitive, authoritative guide to getting up-and-running quickly with the newest, most powerful versions of Ubuntu Server. Written by leading members of the Ubuntu community, *The Official Ubuntu Server Book* covers all you need to know to make the most of Ubuntu Server, whether you're a beginner or a battle-hardened senior system administrator. The authors cover Ubuntu Server from start to finish: installation, basic administration and monitoring, security, backup, troubleshooting, system rescue, and much more. They walk through deploying each of the most common server applications, from file and print services to state-of-the-art, cost-saving virtualization. In addition, you'll learn how to Make the most of Ubuntu Server's latest, most powerful technologies Discover easy, fast ways to perform key administration tasks Automate Ubuntu installs, no matter how many servers you're installing Quickly set up low-cost web servers and email Protect your server with Ubuntu's built-in and optional security tools Minimize downtime with fault tolerance and clustering Master proven, step-by-step server and network troubleshooting techniques Walk through rescuing an Ubuntu server that won't boot

Ubuntu Linux Bible - William von Hagen 2007-03-26

Everything you need to know—and then some! It's the fastest-growing, coolest Linux distribution out there, and now you can join the excitement with this information-packed guide. Want to edit graphics? Create a spreadsheet? Manage groups? Set up an NFS server? You'll learn it all and more with the expert guidance, tips, and techniques in this first-ever soup-to-nuts book on Ubuntu. From the basics for newcomers to enterprise management for system administrators, it's what you need to succeed with Ubuntu. Master the fundamentals for desktop and networks Send e-mail, share files, edit text, and print Download music, watch DVDs, and play games Use Ubuntu on laptops, go wireless, or synch it with your PDA Set up Web, mail, print, DNS, DHCP, and other servers Manage groups and secure your network What's on the CD-ROM? Test-drive Ubuntu on your computer without changing a thing using the bootable Ubuntu Desktop Live CD included with this book. If you decide to install it

permanently, a simple, easy-to-use installer is provided. Also on the CD, you'll find: Popular open-source software for Microsoft(r) Windows(r), such as AbiWord, Firefox(r), GIMP, and more An easy-to-use application that simplifies installing these programs on your Microsoft Windows system System Requirements: Please see the "About the CD-ROM Appendix" for details and complete system requirements. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Ubuntu 20.04 Essentials - Neil Smyth 2020-05-12

Arguably one of the most highly regarded and widely used enterprise level operating systems available today is the Ubuntu 20.04 distribution. Not only is it considered to be among the most stable and reliable operating systems, it is also backed by the considerable resources and technical skills of Canonical, Ltd. *Ubuntu 20.04 Essentials* is designed to provide detailed information on the installation, use and administration of the Ubuntu 20.04 distribution. For beginners, the book covers topics such as operating system installation, the basics of the GNOME desktop environment, configuring email and web servers and installing packages and system updates. Additional installation topics such as dual booting with Microsoft Windows are also covered, together with all important security topics such as configuring a firewall and user and group administration. For the experienced user, topics such as remote desktop access, the Cockpit web interface, logical volume management (LVM), disk partitioning, swap management, KVM virtualization, Secure Shell (SSH), Linux Containers and file sharing using both Samba and NFS are covered in detail to provide a thorough overview of this enterprise class operating system.

Learning Debian GNU/Linux - Bill McCarty 1999

A guide to the Debian 2.1 distribution of Linux demonstrates the capabilities of the completely open-source operating system, covering installation, setup, and basic applications

Ubuntu for Non-Geeks, 4th Edition - Rickford Grant 2010

Provides information on using the latest Ubuntu release, covering such topics as installation, customizing the GNOME panel, installing applications, using printers and scanners, connecting to the Internet, using multimedia, and security.

The Official Ubuntu Book - Benjamin Hill 2010-06-21

Ub>The Official Ubuntu Book, Fifth Edition, will get you up and running quickly. Written by expert, leading Ubuntu community members, this book covers all you need to know to make the most of Ubuntu 10.04, whether you're a home user, small business user, server administrator, or programmer. The authors explain Ubuntu 10.04 from start to finish: installation, configuration, desktop productivity, games, management, support, and much more. Among the many topics covered in this edition: Kubuntu, Ubuntu Netbook Edition, and Ubuntu Server. This complete guide also covers standard desktop applications, from word processing, spreadsheets, Web browsing, e-mail, instant messaging, music, video, and games to software development, databases, and server applications. In addition, you will Learn how to customize Ubuntu for home, small business, school, government, and enterprise environments Learn how to quickly update Ubuntu to new release versions and upgraded applications Find up-to-the-minute troubleshooting advice from Ubuntu users worldwide from forums and other means to get the help you need quickly Learn Ubuntu Server installation and administration, including LVM and RAID implementation Learn how to install Ubuntu on a netbook The DVD includes the complete Ubuntu Linux operating system for installation on PC platforms. The disk is preconfigured with an outstanding desktop environment for both home and business computing. It can be used to install other complete variants of Ubuntu, including Kubuntu (with the KDE environment), Ubuntu Netbook Edition, and Ubuntu Server.

X86-64 Assembly Language Programming with Ubuntu - Ed Jorgensen 2020-12-27

The purpose of this text is to provide a reference for University level assembly language and systems programming courses. Specifically, this text addresses the x86-64 instruction set for the popular x86-64 class of processors using the Ubuntu 64-bit Operating System (OS). While the provided code and various examples should work under any Linux-based 64-bit OS, they have only been tested under Ubuntu 14.04 LTS (64-bit). The x86-64 is a Complex Instruction Set Computing (CISC) CPU

design. This refers to the internal processor design philosophy. CISC processors typically include a wide variety of instructions (sometimes overlapping), varying instructions sizes, and a wide range of addressing modes. The term was retroactively coined in contrast to Reduced Instruction Set Computer (RISC3).

Ubuntu Linux Unleashed 2021 Edition - Matthew Helmke
2020-08-14

Ubuntu Unleashed 2021 Edition is filled with unique information for everyone who wants to make the most of the Ubuntu Linux operating system, including the latest in Ubuntu mobile development. This new edition has been thoroughly updated by a long-time Ubuntu community leader to reflect the new Ubuntu 20.04 and the forthcoming Ubuntu 20.10 and 21.04 releases. Former Ubuntu Forum administrator Matthew Helmke covers all you need to know about Ubuntu 20.04 installation, configuration, productivity, multimedia, development, system administration, server operations, networking, virtualization, security, DevOps, and more - including intermediate-to-advanced techniques you won't find in any other book. Helmke introduces Ubuntu's key productivity and Web development tools, programming languages, hardware support, and more. You'll find new and improved coverage of Ubuntu's Unity interface, various types of servers, software repositories, database options, virtualization and cloud services, development tools, monitoring, troubleshooting, Ubuntu's push into mobile and other touch screen devices, and much more. The companion DVD includes the full Ubuntu 20.04 distribution as well as the complete LibreOffice office suite and hundreds of additional programs and utilities. Ubuntu Unleashed provides detailed information on how to...
Configure and customize the Unity desktop
Get started with multimedia and productivity applications, including LibreOffice
Manage Linux services, users, and software packages
Administer and run Ubuntu from the command line
Automate tasks and use shell scripting
Provide secure remote access and configure a secure VPN
Manage kernels and modules
Administer file, print, email, proxy, LDAP, DNS, and HTTP servers (Apache, Nginx, or alternatives)
Learn about new options for managing large numbers of servers
Work with databases (both SQL and the newest NoSQL alternatives)
Get started with virtualization
Build a private cloud with Juju and Charms
Learn the basics about popular programming languages including Python, PHP, Perl, and new alternatives such as Go and Rust
Learn about Ubuntu's work toward usability on touch-screen and phone devices

LaTeX Beginner's Guide - Stefan Kottwitz 2011-03-21

Create high-quality and professional-looking texts, articles, and books for Business and Science using LaTeX.

The Debian Administrator's Handbook - Raphaël Hertzog
2015-10-21

Debian GNU/Linux, a very popular non-commercial Linux distribution, is known for its reliability and richness. Built and maintained by an impressive network of thousands of developers throughout the world, the Debian project is cemented by its social contract. This foundation text defines the project's objective: fulfilling the needs of users with a 100% free operating system. The success of Debian and of its ecosystem of derivative distributions (with Ubuntu at the forefront) means that an increasing number of administrators are exposed to Debian's technologies. This Debian Administrator's Handbook, which has been entirely updated for Debian 8 "Jessie", builds on the success of its 6 previous editions. Accessible to all, this book teaches the essentials to anyone who wants to become an effective and independent Debian GNU/Linux administrator. It covers all the topics that a competent Linux administrator should master, from installation to updating the system, creating packages and compiling the kernel, but also monitoring, backup and migration, without forgetting advanced topics such as setting up SELinux or AppArmor to secure services, automated installations, or virtualization with Xen, KVM or LXC. This book is not only designed for professional system administrators. Anyone who uses Debian or Ubuntu on their own computer is de facto an administrator and will find tremendous value in knowing more about how their system works. Being able to understand and resolve problems will save you invaluable time. Learn more about the book on its official website: debian-handbook.info

The Linux Command Line - William E. Shotts, Jr. 2012

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"

A Primer on Scientific Programming with Python - Hans Petter Langtangen 2014-08-01

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010
Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011
This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012

Linux in a Windows World - Roderick W. Smith 2005

A companion for any system administrator interested in integrating Linux into their Windows environment. This book takes an in-depth look at exactly how Linux can be brought into an organization that's currently based on Microsoft Windows system. With tips and techniques, it has the practical advice you need to migrate to this software.

Pro Git - Scott Chacon 2014-11-18

Pro Git (Second Edition) is your fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the open source world by storm since its inception in 2005, and this book teaches you how to use it like a pro. Effective and well-implemented version control is a necessity for successful web projects, whether large or small. With this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your

every need. Written by Git pros Scott Chacon and Ben Straub, Pro Git (Second Edition) builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable chapter on GitHub. It's the best book for all your Git needs.

Practical Docker with Python - Sathyajith Bhat 2018-07-26

Learn the key differences between containers and virtual machines. Adopting a project based approach, this book introduces you to a simple Python application to be developed and containerized with Docker. After an introduction to Containers and Docker you'll be guided through Docker installation and configuration. You'll also learn basic functions and commands used in Docker by running a simple container using Docker commands. The book then moves on to developing a Python based Messaging Bot using required libraries and virtual environment where you'll add Docker Volumes to your project, ensuring your container data is safe. You'll create a database container and link your project to it and finally, bring up the Bot-associated database all at once with Docker Compose. What You'll Learn Build, run, and distribute Docker containers Develop a Python App and containerize it Use Dockerfile to run the Python App Define and run multi-container applications with Docker Compose Work with persisting data generated by and used by Docker containers Who This Book Is For Intermediate developers/DevOps practitioners who are looking to improve their build and release workflow by containerizing applications

Rtfm - Ben Clark 2014-02-11

The Red Team Field Manual (RTFM) is a no fluff, but thorough reference guide for serious Red Team members who routinely find themselves on a mission without Google or the time to scan through a man page. The RTFM contains the basic syntax for commonly used Linux and Windows command line tools, but it also encapsulates unique use cases for powerful tools such as Python and Windows PowerShell. The RTFM will repeatedly save you time looking up the hard to remember Windows nuances such as Windows wmic and dsquery command line tools, key registry values, scheduled tasks syntax, startup locations and Windows scripting. More importantly, it should teach you some new red team techniques.

Linux in a Nutshell - Ellen Siever 2005-07-27

Contains an introduction to the operating system with detailed documentation on commands, utilities, programs, system configuration, and networking.

Making Servers Work - 2020-03-30

This book highlights practical sysadmin skills, common architectures that you'll encounter, and best practices that apply to automating and running systems at any scale, from one laptop or server to 1,000 or more. It is intended to help orient you within the discipline, and hopefully encourages you to learn more about system administration.

Advanced Linux Programming - CodeSourcery LLC 2001-06-11

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific. These are truly advanced topics, and are the techniques that the gurus use to build great applications. While this book will focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux.

Beginning Ubuntu Linux - Emilio Raggi 2011-04-06

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.

Linux iptables Pocket Reference - Gregor N. Purdy 2004-08-25

Firewalls, Network Address Translation (NAT), network logging and accounting are all provided by Linux's Netfilter system, also known by the name of the command used to administer it, iptables. The iptables interface is the most sophisticated ever offered on Linux and makes Linux an extremely flexible system for any kind of network filtering you might do. Large sets of filtering rules can be grouped in ways that makes it easy to test them and turn them on and off. Do you watch for all types of ICMP traffic—some of them quite dangerous? Can you take advantage of stateful filtering to simplify the management of TCP connections? Would you like to track how much traffic of various types you get? This pocket reference will help you at those critical moments when someone asks you to open or close a port in a hurry, either to enable some important traffic or to block an attack. The book will keep the subtle syntax straight and help you remember all the values you have to enter in order to be as secure as possible. The book has an introductory section that describes applications, followed by a reference/encyclopaedic section with all the matches and targets arranged alphabetically.

Julia Quick Syntax Reference - Antonello Lobianco 2019-11-11

This quick Julia programming language guide is a condensed code and syntax reference to the Julia 1.x programming language, updated with the latest features of the Julia APIs, libraries, and packages. It presents the essential Julia syntax in a well-organized format that can be used as a handy reference. This book provides an introduction that reveals basic Julia structures and syntax; discusses data types, control flow, functions, input/output, exceptions, metaprogramming, performance, and more. Additionally, you'll learn to interface Julia with other programming languages such as R for statistics or Python. You will learn how to use Julia packages for data analysis, numerical optimization and symbolic computation, and how to disseminate your results in dynamic documents or interactive web pages. In this book, the focus is on providing important information as quickly as possible. It is packed with useful information and is a must-have for any Julia programmer. What You Will Learn Set up the software needed to run Julia and your first Hello World example Work with types and the different containers that Julia makes available for rapid application development Use vectorized, classical loop-based code, logical operators, and blocks Explore Julia functions by looking at arguments, return values, polymorphism, parameters, anonymous functions, and broadcasts Build custom structures in Julia Interface Julia with other languages such as C/C++, Python, and R Program a richer API, modifying the code before it is executed using expressions, symbols, macros, quote blocks, and more Maximize your code's performance Who This Book Is For Experienced programmers new to Julia, as well as existing Julia coders new to the now stable Julia version 1.0 release.

Hello, Android - Ed Burnette 2015-05-04

Google Android dominates the mobile market, and by targeting Android, your apps can run on most of the phones and tablets in the world. This new fourth edition of the #1 book for learning Android covers all modern Android versions from Android 4.1 through Android 5.0. Freshly added material covers new Android features such as Fragments and Google Play Services. Android is a platform you can't afford not to learn, and this book gets you started. Android is a software toolkit for mobile phones and tablets, created by Google. It's inside more than a billion devices, making Android the number one platform for application developers. Your own app could be running on all those devices! Getting started developing with Android is easy. You don't even

need access to an Android phone, just a computer where you can install the Android SDK and the emulator that comes with it. Within minutes, Hello, Android gets you creating your first working application: Android's version of "Hello, World." From there, you'll build up a more substantial example: an Ultimate Tic-Tac-Toe game. By gradually adding features to the game, you'll learn about many aspects of Android programming, such as creating animated user interfaces, playing music and sound effects, building location-based services (including GPS and cell-

tower triangulation), and accessing web services. You'll also learn how to publish your applications to the Google Play Store. This fourth edition of the bestselling Android classic has been revised for Android 4.1-4.3 (Jelly Bean), 4.4 (KitKat), and Android 5.0 (Lollipop). Topics have been streamlined and simplified based on reader feedback, and every page and example has been reviewed and updated for compatibility with the latest versions of Android. If you'd rather be coding than reading about coding, this book is for you.