

Linux

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,

Get Free Linux

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,

Get Free Linux

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

Get Free Linux

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

Get Free Linux

Describes the basic features of Fedora and offers instructions concerning its use, administration, network and server set-up, and its compatibility with new technology.

If you use Linux in your day-to-day work, this popular pocket guide is the perfect on-the-job reference. The third edition features new commands for processing image files and audio files, running and killing programs, reading and modifying the system clipboard, and manipulating PDF files, as well as other commands requested by readers. You'll also find powerful command-line idioms you might not be

Get Free Linux

familiar with, such as process substitution and piping into bash. Linux Pocket Guide provides an organized learning path to help you gain mastery of the most useful and important commands. Whether you're a novice who needs to get up to speed on Linux or an experienced user who wants a concise and functional reference, this guide provides quick answers. Selected topics include: The filesystem and shell File creation and editing Text manipulation and pipelines Backups and remote storage Viewing and controlling processes User account management Becoming the superuser Network connections Audio

Get Free Linux

and video Installing software Programming with shell scripts

Linux Kernel Networking takes you on a guided in-depth tour of the current Linux networking implementation and the theory behind it. Linux kernel networking is a complex topic, so the book won't burden you with topics not directly related to networking. This book will also not overload you with cumbersome line-by-line code walkthroughs not directly related to what you're searching for; you'll find just what you need, with in-depth explanations in each chapter and a quick reference at the end of

Get Free Linux

each chapter. Linux Kernel Networking is the only up-to-date reference guide to understanding how networking is implemented, and it will be indispensable in years to come since so many devices now use Linux or operating systems based on Linux, like Android, and since Linux is so prevalent in the data center arena, including Linux-based virtualization technologies like Xen and KVM. Learn over 116 Linux commands to develop the skills you need to become a professional Linux system administrator

Key Features

Explore essential Linux commands and understand how to use Linux

Get Free Linux

help toolsDiscover the power of task automation with bash scripting and Cron jobsGet to grips with various network configuration tools and disk management techniquesBook Description Linux is one of the most sought-after skills in the IT industry, with jobs involving Linux being increasingly in demand. Linux is by far the most popular operating system deployed in both public and private clouds; it is the processing power behind the majority of IoT and embedded devices. Do you use a mobile device that runs on Android? Even Android is a Linux distribution. This Linux book is a practical guide that lets you explore

Get Free Linux

the power of the Linux command-line interface. Starting with the history of Linux, you'll quickly progress to the Linux filesystem hierarchy and learn a variety of basic Linux commands. You'll then understand how to make use of the extensive Linux documentation and help tools. The book shows you how to manage users and groups and takes you through the process of installing and managing software on Linux systems. As you advance, you'll discover how you can interact with Linux processes and troubleshoot network problems before learning the art of writing bash scripts and automating

Get Free Linux

administrative tasks with Cron jobs. In addition to this, you'll get to create your own Linux commands and analyze various disk management techniques. By the end of this book, you'll have gained the Linux skills required to become an efficient Linux system administrator and be able to manage and work productively on Linux systems. What you will learn Master essential Linux commands and analyze the Linux filesystem hierarchy Find out how to manage users and groups in Linux Analyze Linux file ownership and permissions Automate monotonous administrative tasks with Cron jobs and bash

Get Free Linux

scripts Use aliases to create your own Linux commands Understand how to interact with and manage Linux processes Become well-versed with using a variety of Linux networking commands Perform disk partitioning, mount filesystems, and create logical volumes Who this book is for This book doesn't assume any prior Linux knowledge, which makes it perfect for beginners. Intermediate and advanced Linux users will also find this book very useful as it covers a wide range of topics necessary for Linux administration.

A Linux and UNIX System Programming Handbook

Get Free Linux

How Linux Works, 3rd Edition

Linux for Dummies

Intrusion Prevention, Detection, and Recovery

Exam LX0-103 and Exam LX0-104

Linux on the Mainframe

Enabling technologies - An overview of cluster computing / Thomas Sterling / - Node Hardware / Thomas Sterling / - Linux / Peter H. Beckman / - Network Hardware / Thomas Sterling / - Network Software / Thomas Sterling / - Setting Up clusters : installation and configuration - How fast is my beowulf? / David Bailey / - Parallel programming / - Parallel programming with MPI / William Gropp / -

Get Free Linux

Advanced topics in MPI programming / William Gropp / - Parallel programming with PVM / Al Geist / - Fault-tolerant and adaptive programs with PVM / Al Geist / - Managing clusters / - Cluster workload management / James Patton Jones / - Condor : a distributed job scheduler / - Maui scheduler : A multifunction cluster scheduler / David B. Jackson / - PBS : portable batch system / James Patton Jones / - PVFS : parallel virtual file system / Walt Ligon / - Chiba city : the Argonne scalable cluster.

Your one-stop guide to Linux--fully revised and expanded Get in-depth coverage of all Linux features, tools, and utilities from this thoroughly updated and comprehensive resource, designed for all Linux

Get Free Linux

distributions. Written by Linux expert Richard Petersen, this book explains how to get up-and-running on Linux, use the desktops and shells, manage applications, deploy servers, implement security measures, and handle system and network administration tasks. With full coverage of the latest platform, Linux: The Complete Reference, Sixth Edition includes details on the very different and popular Debian (Ubuntu) and Red Hat/Fedora software installation and service management tools used by most distributions. This is a must-have guide for all Linux users. Install, configure, and administer any Linux distribution Work with files and folders from the BASH, TCSH, and Z shells Use the GNOME and

Get Free Linux

KDE desktops, X Windows, and display managers Set up office, database, Internet, and multimedia applications Secure data using SELinux, netfilter, SSH, and Kerberos Encrypt network transmissions with GPG, LUKS, and IPsec Deploy FTP, Web, mail, proxy, print, news, and database servers Administer system resources using HAL, udev, and virtualization (KVM and Xen) Configure and maintain IPv6, DHCPv6, NIS, networking, and remote access Access remote files and devices using NFSv4, GFS, PVFS, NIS, and SAMBA Everything you need to know about Linux is in this book. Written by Stephen Figgins, Ellen Siever, Robert Love, and Arnold Robbins -- people with years of active participation in the Linux community -- Linux in

Get Free Linux

a Nutshell, Sixth Edition, thoroughly covers programming tools, system and network administration tools, the shell, editors, and LILO and GRUB boot loaders. This updated edition offers a tighter focus on Linux system essentials, as well as more coverage of new capabilities such as virtualization, wireless network management, and revision control with git. It also highlights the most important options for using the vast number of Linux commands. You'll find many helpful new tips and techniques in this reference, whether you're new to this operating system or have been using it for years. Get the Linux commands for system administration and network management Use hundreds of the most

Get Free Linux

important shell commands available on Linux
Understand the Bash shell command-line interpreter
Search and process text with regular expressions
Manage your servers via virtualization with Xen and VMware
Use the Emacs text editor and development environment, as well as the vi, ex, and vim text-manipulation tools
Process text files with the sed editor and the gawk programming language
Manage source code with Subversion and git
Over 100 recipes to get up and running with the modern Linux administration ecosystem
Key Features
Understand and implement the core system administration tasks in Linux
Discover tools and techniques to troubleshoot your Linux system

Get Free Linux

Maintain a healthy system with good security and backup practices Book Description Linux is one of the most widely used operating systems among system administrators, and even modern application and server development is heavily reliant on the Linux platform. The Linux Administration Cookbook is your go-to guide to get started on your Linux journey. It will help you understand what that strange little server is doing in the corner of your office, what the mysterious virtual machine languishing in Azure is crunching through, what that circuit-board-like thing is doing under your office TV, and why the LEDs on it are blinking rapidly. This book will get you started with administering Linux, giving you the knowledge

Get Free Linux

and tools you need to troubleshoot day-to-day problems, ranging from a Raspberry Pi to a server in Azure, while giving you a good understanding of the fundamentals of how GNU/Linux works. Through the course of the book, you'll install and configure a system, while the author regales you with errors and anecdotes from his vast experience as a data center hardware engineer, systems administrator, and DevOps consultant. By the end of the book, you will have gained practical knowledge of Linux, which will serve as a bedrock for learning Linux administration and aid you in your Linux journey. What you will learn

Install and manage a Linux server, both locally and in the cloud

Understand how to perform administration

Get Free Linux

across all Linux distros Work through evolving concepts such as IaaS versus PaaS, containers, and automation Explore security and configuration best practices Troubleshoot your system if something goes wrong Discover and mitigate hardware issues, such as faulty memory and failing drives Who this book is for If you are a system engineer or system administrator with basic experience of working with Linux, this book is for you.

Over the last few years, Linux has grown both as an operating system and a tool for personal and business use. Simultaneously becoming more user friendly and more powerful as a back-end system, Linux has achieved new plateaus: the newer filesystems have

Get Free Linux

solidified, new commands and tools have appeared and become standard, and the desktop--including new desktop environments--have proved to be viable, stable, and readily accessible to even those who don't consider themselves computer gurus. Whether you're using Linux for personal software projects, for a small office or home office (often termed the SOHO environment), to provide services to a small group of colleagues, or to administer a site responsible for millions of email and web connections each day, you need quick access to information on a wide range of tools. This book covers all aspects of administering and making effective use of Linux systems. Among its topics are booting, package management, and

Get Free Linux

revision control. But foremost in Linux in a Nutshell are the utilities and commands that make Linux one of the most powerful and flexible systems available. Now in its fifth edition, Linux in a Nutshell brings users up-to-date with the current state of Linux. Considered by many to be the most complete and authoritative command reference for Linux available, the book covers all substantial user, programming, administration, and networking commands for the most common Linux distributions. Comprehensive but concise, the fifth edition has been updated to cover new features of major Linux distributions. Configuration information for the rapidly growing commercial network services and community update

Get Free Linux

services is one of the subjects covered for the first time. But that's just the beginning. The book covers editors, shells, and LILO and GRUB boot options. There's also coverage of Apache, Samba, Postfix, sendmail, CVS, Subversion, Emacs, vi, sed, gawk, and much more. Everything that system administrators, developers, and power users need to know about Linux is referenced here, and they will turn to this book again and again.

Linux Kernel Development

An Introduction to the Linux Operating System and Command Line

How Linux Works, 2nd Edition

Ubuntu Linux Toolbox: 1000+ Commands for Power

Get Free Linux

Users

Beowulf Cluster Computing with Linux

The Linux Command Line, 2nd Edition

Best-selling guide to the inner workings of the Linux operating system with over 50,000 copies sold since its original release in 2014. Linux for the Superuser Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does. In this third edition of the bestselling How

Get Free Linux

Linux Works, author Brian Ward peels back the layers of this well-loved operating system to make Linux internals accessible. This edition has been thoroughly updated and expanded with added coverage of Logical Volume Manager (LVM), virtualization, and containers. You'll learn:

- How Linux boots, from boot loaders to init (systemd)
- How the kernel manages devices, device drivers, and processes
- How networking, interfaces, firewalls, and servers work
- How development tools work and relate to shared libraries
- How to write effective shell scripts

You'll also explore the kernel and examine key system tasks

Get Free Linux

inside user-space processes, including system calls, input and output, and filesystem maintenance. With its combination of background, theory, real-world examples, and thorough explanations, How Linux Works, 3rd Edition will teach you what you need to know to take control of your operating system. NEW TO THIS EDITION: • Hands-on coverage of the LVM, journald logging system, and IPv6 • Additional chapter on virtualization, featuring containers and cgroups • Expanded discussion of systemd Covers systemd-based installations

Covers the basic concepts of the computer

Get Free Linux

operating system and discusses such topics as using directories, working with a shell, controlling ownership, running scripts, and working with encoded files.

This is the comprehensive guide to Linux on the mainframe straight from the IBM Linux experts. The book covers virtualization, security, systems management, and more.

Learn Linux, and take your career to the next level! Linux Essentials, 2nd Edition provides a solid foundation of knowledge for anyone considering a career in information technology, for anyone new to the Linux operating system, and for anyone who is

Get Free Linux

preparing to sit for the Linux Essentials Exam. Through this engaging resource, you can access key information in a learning-by-doing style. Hands-on tutorials and end-of-chapter exercises and review questions lead you in both learning and applying new information—information that will help you achieve your goals! With the experience provided in this compelling reference, you can sit down for the Linux Essentials Exam with confidence. An open source operating system, Linux is a UNIX-based platform that is freely updated by developers. The nature of its development means that Linux is a low-

Get Free Linux

cost and secure alternative to other operating systems, and is used in many different IT environments. Passing the Linux Essentials Exam prepares you to apply your knowledge regarding this operating system within the workforce. Access lessons that are organized by task, allowing you to quickly identify the topics you are looking for and navigate the comprehensive information presented by the book Discover the basics of the Linux operating system, including distributions, types of open source applications, freeware, licensing, operations, navigation, and more Explore

Get Free Linux

command functions, including navigating the command line, turning commands into scripts, and more Identify and create user types, users, and groups Linux Essentials, 2nd Edition is a critical resource for anyone starting a career in IT or anyone new to the Linux operating system.

This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them. Topics include Linux command line basics, filesystems, networking, BASH basics, package management, logging, and the Linux kernel and drivers. If you're getting started along the

Get Free Linux

exciting path of hacking, cybersecurity, and pentesting, Linux Basics for Hackers is an excellent first step. Using Kali Linux, an advanced penetration testing distribution of Linux, you'll learn the basics of using the Linux operating system and acquire the tools and techniques you'll need to take control of a Linux environment. First, you'll learn how to install Kali on a virtual machine and get an introduction to basic Linux concepts. Next, you'll tackle broader Linux topics like manipulating text, controlling file and directory permissions, and managing user environment variables. You'll then focus in

Get Free Linux

on foundational hacking concepts like security and anonymity and learn scripting skills with bash and Python. Practical tutorials and exercises throughout will reinforce and test your skills as you learn how to: - Cover your tracks by changing your network information and manipulating the rsyslog logging utility - Write a tool to scan for network connections, and connect and listen to wireless networks - Keep your internet activity stealthy using Tor, proxy servers, VPNs, and encrypted email - Write a bash script to scan open ports for potential targets - Use and abuse services like MySQL,

Get Free Linux

Apache web server, and OpenSSH - Build your own hacking tools, such as a remote video spy camera and a password cracker Hacking is complex, and there is no single way in. Why not start at the beginning with Linux Basics for Hackers?

The Linux Programming Interface

Linux Networking Cookbook

Linux All-in-One For Dummies

Rute User's Tutorial and Exposition

Real World Linux Security

Linux for Beginners

****Imparts good security doctrine, methodology,***

and strategies *Each application-focused chapter will be able to be used as a stand-alone HOW-TO for that particular application. *Offers users a selection of resources (websites, mailing lists, and books) to further their knowledge.

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

Get Free Linux

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,

Get Free Linux

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.

Summary: The Linux Kernel Book allows you to delve into the heart of this operating system by means of an in-depth treatment of the internal functioning of the kernel. Each chapter deals in detail with the system components, including:

process management, memory management, IPC Systems V, signals, pipes, POSIX tty, file systems, loadable modules, and administration. Demonstrates new Linux distributions while covering commands, installation, customizing the Linux shell, filesystem management, working with multimedia features, security, networking, and system administration.

The Linux Programming Interface (TLPI) is the definitive guide to the Linux and UNIX programming interface—the interface employed by nearly every application that runs on a Linux

or UNIX system. In this authoritative work, Linux programming expert Michael Kerrisk provides detailed descriptions of the system calls and library functions that you need in order to master the craft of system programming, and accompanies his explanations with clear, complete example programs. You'll find descriptions of over 500 system calls and library functions, and more than 200 example programs, 88 tables, and 115 diagrams. You'll learn how to:

- Read and write files efficiently***
- Use signals, clocks, and timers***
- Create processes and***

***execute programs –Write secure programs
–Write multithreaded programs using POSIX
threads –Build and use shared libraries –Perform
interprocess communication using pipes,
message queues, shared memory, and
semaphores –Write network applications with
the sockets API While The Linux Programming
Interface covers a wealth of Linux-specific
features, including epoll, inotify, and the /proc
file system, its emphasis on UNIX standards
(POSIX.1-2001/SUSv3 and POSIX.1-2008/SUSv4)
makes it equally valuable to programmers***

Get Free Linux

working on other UNIX platforms. The Linux Programming Interface is the most comprehensive single-volume work on the Linux and UNIX programming interface, and a book that's destined to become a new classic.

Linux

Getting Started with Networking, Scripting, and Security in Kali

Linux Pocket Guide

Linux Basics for Hackers

Linux Administration Cookbook

The Tiny Adaptable Linux that Runs on Anything

Get Free Linux

A Linux smart home is about controlling and monitoring devices and information around your home using a standard personal computer, Linux, and its vast array of open source tools. You don't have to be a master programmer to create one. If you like to tinker with Linux, *Linux Smart Homes For Dummies* will guide you through cool home automation projects that are as much fun to work on as they are to use. Home automation used to be limited to turning on lights and appliances, and maybe controlling your thermostat and lawn sprinkler, from your computer. While you still might not be able to create all the Jetsons' toys, today you can also Build a wireless network Create and set up a weather station Automate

Get Free Linux

your TV and sound system Spy on your pets when you're not home Set up an answering system that knows what to do with calls Increase your home's security If you know how to use Linux and a few basic development tools — Perl, the BASH shell, development libraries, and the GNU C compiler—Linux Smart Homes For Dummies will help you do all these tricks and more. For example, you can Discover the best sources for Linux-based home automation devices Set up a wireless network, create a wireless access point, build a bridge between wired and wireless networks, and route your own network traffic Build a personal video recorder with MythTV that will record to DVD, or set up a wireless

Get Free Linux

streaming music system Create a smart phone system that takes messages and forwards them to your fax, modem, or answering machine Build a weather station that notifies you of severe weather alerts Control and secure your home automation network, and even check on your house when you're away The bonus CD-ROM includes all kinds of cool open source software for your home automation projects. Linux Smart Homes For Dummies even includes lists of cool gadgets to check out and great ways to automate those boring household chores. A smart home's a happy home!

You've experienced the shiny, point-and-click surface of your Linux computer--now dive below and explore its

Get Free Linux

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 (or command line). Along the way you'll learn the timeless skills handed down by generations of experienced, 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-

Get Free Linux

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.

If you want to learn how to use Linux, but don't know

Get Free Linux

where to start read on. Knowing where to start when learning a new skill can be a challenge, especially when the topic seems so vast. There can be so much information available that you can't even decide where to start. Or worse, you start down the path of learning and quickly discover too many concepts, commands, and nuances that aren't explained. This kind of experience is frustrating and leaves you with more questions than answers. Linux for Beginners doesn't make any assumptions about your background or knowledge of Linux. You need no prior knowledge to benefit from this book. You will be guided step by step using a logical and systematic approach. As new concepts, commands, or

Get Free Linux

jargon are encountered they are explained in plain language, making it easy for anyone to understand. Here is what you will learn by reading Linux for Beginners:

- How to get access to a Linux server if you don't already.
- What a Linux distribution is and which one to choose.
- What software is needed to connect to Linux from Mac and Windows computers. Screenshots included.
- What SSH is and how to use it, including creating and using SSH keys.
- The file system layout of Linux systems and where to find programs, configurations, and documentation.
- The basic Linux commands you'll use most often. Creating, renaming, moving, and deleting directories. Listing, reading, creating, editing, copying,

Get Free Linux

and deleting files. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. How to use the nano, vi, and emacs editors. Two methods to search for files and directories. How to compare the contents of files. What pipes are, why they are useful, and how to use them. How to compress files to save space and make transferring data easy. How and why to redirect input and output from applications. How to customize your shell prompt. How to be efficient at the command line by using aliases, tab completion, and your shell history. How to schedule and automate jobs using cron. How to switch users and run processes as others. Where to go for even more in-depth coverage on each

Get Free Linux

topic. What you learn in "Linux for Beginners" applies to any Linux environment including Ubuntu, Debian, Linux Mint, RedHat, Fedora, OpenSUSE, Slackware, and more. Scroll up, click the Buy Now With 1 Click button and get started learning Linux today!

CompTIA Authorized Linux+ prep CompTIA Linux+ Study Guide is your comprehensive study guide for the Linux+ Powered by LPI certification exams. With complete coverage of 100% of the objectives on both exam LX0-103 and exam LX0-104, this study guide provides clear, concise information on all aspects of Linux administration, with a focus on the latest version of the exam. You'll gain the insight of examples drawn from

Get Free Linux

real-world scenarios, with detailed guidance and authoritative coverage of key topics, including GNU and Unix commands, system operation, system administration, system services, security, and more, from a practical perspective that easily translates into on-the-job know-how. You'll also get access to helpful study tools, including bonus practice exams, electronic flashcards, and a searchable glossary of key terms that are important to know for exam day. Linux is viewed by many companies and organizations as an excellent, low-cost, secure alternative to expensive operating systems such as Microsoft Windows. The CompTIA Linux+ Powered by LPI exams test a candidate's understanding

Get Free Linux

and familiarity with the Linux Kernel. Review the basic system architecture, installation, and management Understand commands, devices, and file systems Utilize shells, scripting, and data management techniques Navigate user interfaces, desktops, and essential system services As the Linux server market share continue to grow, so too does the demand for qualified and certified Linux administrators. Certification holders must recertify every five years, but LPI recommends recertifying every two years to stay fully up to date with new technologies and best practices. CompTIA Linux+ Study Guide gives you the advantage of exam day confidence. A True Textbook for an Introductory Course, System

Get Free Linux

Administration Course, or a Combination Course Linux with Operating System Concepts, Second Edition merges conceptual operating system (OS) and Unix/Linux topics into one cohesive textbook for undergraduate students. The book can be used for a one- or two-semester course on Linux or Unix. It is complete with review sections, problems, definitions, concepts and relevant introductory material, such as binary and Boolean logic, OS kernels and the role of the CPU and memory hierarchy. Details for Introductory and Advanced Users The book covers Linux from both the user and system administrator positions. From a user perspective, it emphasizes command-line interaction.

Get Free Linux

From a system administrator perspective, the text reinforces shell scripting with examples of administration scripts that support the automation of administrator tasks. Thorough Coverage of Concepts and Linux Commands The author incorporates OS concepts not found in most Linux/Unix textbooks, including kernels, file systems, storage devices, virtual memory and process management. He also introduces computer science topics, such as computer networks and TCP/IP, interpreters versus compilers, file compression, file system integrity through backups, RAID and encryption technologies, booting and the GNUs C compiler. New in this Edition The book has been updated to systemd

Get Free Linux

Linux and the newer services like Cockpit, NetworkManager, firewalld and journald. This edition explores Linux beyond CentOS/Red Hat by adding detail on Debian distributions. Content across most topics has been updated and improved.

The Linux Command Line

Learn Linux Quickly

What Every Superuser Should Know

Hardening Linux

Learning Linux Binary Analysis

You've experienced the shiny, point-and-

Get Free Linux

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,

Get Free Linux

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 *

Get Free Linux

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

Get Free Linux

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"

Uncover the secrets of Linux binary analysis with this handy guide About This Book- Grasp the intricacies of the ELF binary format of UNIX and Linux- Design tools for reverse engineering and binary forensic analysis- Insights into UNIX and Linux memory infections,

Get Free Linux

ELF viruses, and binary protection schemes Who This Book Is For If you are a software engineer or reverse engineer and want to learn more about Linux binary analysis, this book will provide you with all you need to implement solutions for binary analysis in areas of security, forensics, and antivirus. This book is great for both security enthusiasts and system level engineers. Some experience with the C programming language and the Linux command line is

Get Free Linux

assumed. What You Will Learn- Explore the internal workings of the ELF binary format- Discover techniques for UNIX Virus infection and analysis- Work with binary hardening and software anti-tamper methods- Patch executables and process memory- Bypass anti-debugging measures used in malware- Perform advanced forensic analysis of binaries- Design ELF-related tools in the C language- Learn to operate on memory with ptrace

In Detail Learning Linux

Get Free Linux

Binary Analysis is packed with knowledge and code that will teach you the inner workings of the ELF format, and the methods used by hackers and security analysts for virus analysis, binary patching, software protection and more. This book will start by taking you through UNIX/Linux object utilities, and will move on to teaching you all about the ELF specimen. You will learn about process tracing, and will explore the different types of

Get Free Linux

Linux and UNIX viruses, and how you can make use of ELF Virus Technology to deal with them. The latter half of the book discusses the usage of Kprobe instrumentation for kernel hacking, code patching, and debugging. You will discover how to detect and disinfect kernel-mode rootkits, and move on to analyze static code. Finally, you will be walked through complex userspace memory infection analysis. This book will lead you into territory that is

Get Free Linux

uncharted even by some experts; right into the world of the computer hacker. Style and approach The material in this book provides detailed insight into the arcane arts of hacking, coding, reverse engineering Linux executables, and dissecting process memory. In the computer security industry these skills are priceless, and scarce. The tutorials are filled with knowledge gained through first hand experience, and are complemented

Get Free Linux

with frequent examples including source code.

A guide to using Damn Small Linux covers such topics as using applications, configuring settings, running DSL embedded in Windows, making an Edna Music Server, and using Skype VoIP service.

CD-ROM contains: Electronic version of text in HTML format

Advance your understanding of the Linux command line with this invaluable

Get Free Linux

resource Linux Command Line and Shell Scripting Bible, 4th Edition is the newest installment in the indispensable series known to Linux developers all over the world. Packed with concrete strategies and practical tips, the latest edition includes brand-new content covering:

- Understanding the Shell
- Writing Simple Script Utilities
- Producing Database, Web & Email Scripts
- Creating Fun Little Shell Scripts

Written by accomplished Linux

Get Free Linux

professionals Christine Bresnahan and Richard Blum, *Linux Command Line and Shell Scripting Bible, 4th Edition* teaches readers the fundamentals and advanced topics necessary for a comprehensive understanding of shell scripting in Linux. The book is filled with real-world examples and usable scripts, helping readers navigate the challenging Linux environment with ease and convenience. The book is perfect for anyone who uses Linux at home or in

Get Free Linux

the office and will quickly find a place on every Linux enthusiast's bookshelf.

Ubuntu Linux Unleashed 2021 Edition

Linux in a Nutshell

Understanding Linux Network Internals

From Asterisk to Zebra with Easy-to-Use Recipes

Linux: The Complete Reference, Sixth Edition

Interprocess Communications in Linux

This updated bestseller from Linux guru

Get Free Linux

Chris Negus is packed with an array of new and revised material As a longstanding bestseller, Ubuntu Linux Toolbox has taught you how to get the most out Ubuntu, the world's most popular Linux distribution. With this anticipated new edition, Christopher Negus returns with a host of new and expanded coverage on tools for managing file systems, ways to connect to networks, techniques for securing Ubuntu systems, and a look at the latest Long Term Support (LTS) release of Ubuntu, all aimed at getting you up and running

Get Free Linux

with Ubuntu Linux quickly. Covers installation, configuration, shell primer, the desktop, administrations, servers, and security Delves into coverage of popular applications for the web, productivity suites, and e-mail Highlights setting up a server (Apache, Samba, CUPS) Boasts a handy trim size so that you can take it with you on the go Ubuntu Linux Toolbox, Second Edition prepares you with a host of updated tools for today's environment, as well as expanded coverage on everything you know to confidently start using Ubuntu

Get Free Linux

today.

Gray zeroes right in on the key techniques of processes and interprocess communication from primitive communications to the complexities of sockets. The book covers every aspect of UNIX/Linux interprocess communications in sufficient detail to allow experienced programmers to begin writing useful code immediately.

How Linux Works describes the inside of the Linux system for systems administrators, whether they maintain an

Get Free Linux

extensive network in the office or one Linux box at home. After a guided tour of filesystems, the boot sequence, system management basics, and networking, author Brian Ward delves into topics such as development tools, custom kernels, and buying hardware. With a mixture of background theory and real-world examples, this book shows both how to administer Linux, and why each particular technique works, so that you will know how to make Linux work for you.

The authoritative guide to the latest

Get Free Linux

Linux kernel: fully updated, with an all-new chapter on kernel data structures. *
*Authored by a well-known member of the Linux kernel development team with a reputation for clarity, readability, and insight. *Covers all major subsystems and features of the latest version of the Linux 2.6.xx kernel. *Provides examples based on real kernel code: samples that developers can use to modify and improve the Linux kernel on their own. Linux Kernel Development, 3/e, is a start-to-finish guide to the design and

Get Free Linux

implementation of the latest Linux 2.6.xx kernel, written specifically for programmers who want to understand the existing kernel, write new kernel code, and write software that relies on the kernel's behavior. Author Robert Love is respected worldwide for his contributions to the Linux kernel: contributions that have improved everything from Linux preemption and process scheduling to virtual memory. In this book, he illuminates every major subsystem and feature of the current Linux kernel: their

Get Free Linux

purpose, goals, design, implementation, and programming interfaces. He covers the kernel both from a theoretical and applied standpoint, helping programmers gain deep insights into operating system design as they master the skills of writing Linux kernel code. Love covers all important algorithms, relevant subsystems, process management, scheduling, time management and timers, system call interface, memory addressing, memory management, paging strategies, caching layers, VFS, kernel synchronization, signals, and more. This

Get Free Linux

edition has been updated throughout to reflect changes since the original Linux kernel 2.6 was released. It also contains an entirely new chapter on kernel data structures.

Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does. In this completely revised second edition of the

Get Free Linux

perennial best seller *How Linux Works*, author Brian Ward makes the concepts behind Linux internals accessible to anyone curious about the inner workings of the operating system. Inside, you'll find the kind of knowledge that normally comes from years of experience doing things the hard way. You'll learn:

- How Linux boots, from boot loaders to init implementations (systemd, Upstart, and System V)
- How the kernel manages devices, device drivers, and processes
- How networking, interfaces, firewalls, and servers work
- How

Get Free Linux

development tools work and relate to shared libraries –How to write effective shell scripts You'll also explore the kernel and examine key system tasks inside user space, including system calls, input and output, and filesystems. With its combination of background, theory, real-world examples, and patient explanations, How Linux Works will teach you what you need to know to solve pesky problems and take control of your operating system.

Linux Command Line and Shell Scripting Bible

Get Free Linux

Linux Bible

Linux Kernel Networking

A Complete Introduction

The Official Damn Small Linux Book

Linux Essentials

This soup-to-nuts collection of recipes covers everything you need to know to perform your job as a Linux network administrator, whether you're new to the job or have years of experience. With Linux Networking Cookbook, you'll dive straight into the gnarly hands-on work of building and maintaining a computer network. Running a

Get Free Linux

network doesn't mean you have all the answers. Networking is a complex subject with reams of reference material that's difficult to keep straight, much less remember. If you want a book that lays out the steps for specific tasks, that clearly explains the commands and configurations, and does not tax your patience with endless ramblings and meanderings into theory and obscure RFCs, this is the book for you. You will find recipes for: Building a gateway, firewall, and wireless access point on a Linux network Building a VoIP server with Asterisk Secure remote administration with SSH Building

Get Free Linux

secure VPNs with OpenVPN, and a Linux PPTP VPN server
Single sign-on with Samba for mixed Linux/Windows LANs
Centralized network directory with OpenLDAP
Network monitoring with Nagios or MRTG
Getting acquainted with IPv6
Setting up hands-free networks
installations of new systems
Linux system administration via serial console
And a lot more. Each recipe includes a clear, hands-on solution with tested code, plus a discussion on why it works. When you need to solve a network problem without delay, and don't have the time or patience to comb through reference books or the Web for answers, Linux

Get Free Linux

Networking Cookbook gives you exactly what you need.

Offers real world examples of computer security breeches and discusses common attacks, security policies, configuration and hardware preparation, and system scanning and repair.

The Linux Programming Interface
A Linux and UNIX System Programming Handbook
No Starch Press

Benvenuti describes the relationship between the Internet's TCP/IP implementation and the Linux Kernel so that programmers and advanced administrators can modify and fine-tune their

Get Free Linux

network environment.

A step-by-step guide to Fedora and Red Hat Enterprise Linux covers such topics as the shell, networking, system administration, setting up servers, and programming tools.

How Linux Works

A beginner-friendly guide to getting up and running with the world's most powerful operating system

Linux with Operating System Concepts

CompTIA Linux+ Powered by Linux Professional Institute Study Guide

Implementation and Theory

A Practical Guide to Fedora and Red Hat

Get Free Linux

Enterprise Linux

8 mini books chock full of Linux! Inside, over 800 pages of Linux topics are organized into eight task-oriented mini books that help you understand all aspects of the latest OS distributions of the most popular open-source operating system in use today. Topics include getting up and running with basics, desktops, networking, internet services, administration, security, scripting, Linux certification, and more. This new edition of Linux All-in-One For Dummies has a unique focus on Ubuntu, while still including coverage of Debian,

Get Free Linux

Red Hat, SuSE, and others. The market is looking for administrators, and part of the qualifications needed for job openings is the authentication of skills by vendor-neutral third parties (CompTIA/Linux Professional Institute)—and that ' s something other books out there don ' t address. Install and configure peripherals, software packages, and keep everything current Connect to the internet, set up a local area network (including a primer on TCP/IP, and managing a local area network using configuration tools and files) Browse the web securely and anonymously Get everything

Get Free Linux

you need to pass your entry-level Linux certification exams This book is for anyone getting familiar with the Linux OS, and those looking for test-prep content as they study for the level-1 Linux certification!

Linux Smart Homes For Dummies

The Linux Kernel Book

Unix and Linux

Red Hat Fedora Linux 2 All-in-One Desk Reference
For Dummies