

Linux

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 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.

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

"This book covers strategies on using and evaluating open source products for online teaching and learning systems"--Provided by publisher.

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 Beginner's Guide

Linux IP Stacks Commentary

Sams Teach Yourself Linux-Mandrake in 24 Hours

A Complete Introduction

Security Strategies in Linux Platforms and Applications

Covering all the essential components of Unix/Linux, including process management, concurrent programming, timer and time service, file systems and network programming, this textbook emphasizes programming practice in the Unix/Linux environment. Systems

Programming in Unix/Linux is intended as a textbook for systems programming courses in technically-oriented Computer Science/Engineering curricula that emphasize both theory and programming practice. The book contains many detailed working example programs with complete source code. It is also suitable for self-study by advanced programmers and computer enthusiasts. Systems programming is an indispensable part of Computer Science/Engineering education. After taking an introductory programming course, this book is meant to further knowledge by detailing how dynamic data structures are used in practice, using programming exercises and programming projects on such topics as C structures, pointers, link lists and trees. This book provides a wide range of knowledge about computer system software and advanced programming skills, allowing readers to interface with operating system kernel, make efficient use of system resources and develop application software. It also prepares readers with the needed background to pursue advanced studies in Computer Science/Engineering, such as operating systems, embedded systems, database systems, data mining, artificial intelligence, computer networks, network security, distributed and parallel computing.

The EC-Council | Press Ethical Hacking and Countermeasures Series is comprised of five books covering a broad base of topics in offensive network security, ethical hacking, and network defense and countermeasures. The content of this series is designed to immerse the reader into an interactive environment where they will be shown how to scan, test, hack and secure information systems. With the full series of books, the reader will gain in-depth knowledge and practical experience with essential security systems, and become prepared to succeed on the Certified Ethical Hacker, or C|EH, certification from EC-Council. This certification covers a plethora of offensive security topics ranging from how perimeter defenses work, to scanning and attacking simulated networks. A wide variety of tools, viruses, and malware is presented in this and the other four books, providing a complete understanding of the tactics and tools used by hackers. By gaining a thorough understanding of how hackers operate, an Ethical Hacker will be able to set up strong countermeasures and defensive systems to protect an organization's critical infrastructure and information. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advance your understanding of the Linux command line with this invaluable 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 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 the office and will quickly find a place on every Linux enthusiast's bookshelf.

This collection makes a unique contribution to the study of anti-Muslim prejudice by placing the issue in both its past and present context. The essays cover historical and contemporary subjects from the eleventh century to the present day. This book was published as a special issue of Patterns of Prejudice .

User Mode Linux

Applying Linux Technologies

A Linux and UNIX System Programming Handbook

Red Hat Linux Secrets

Hacking Linux Exposed

The industry favorite Linux guide, updated for Red Hat Enterprise Linux 7 and the cloud Linux Bible, 9th Edition is the ultimate hands-on Linux user guide, whether you're a true beginner or a more advanced user navigating recent changes. This updated ninth edition covers the latest versions of Red Hat Enterprise Linux 7 (RHEL 7), Fedora 21, and Ubuntu 14.04 LTS, and includes new information on cloud computing and development with guidance on Openstack and Cloudforms. With a focus on RHEL 7, this practical guide gets you up to speed quickly on the new enhancements for enterprise-quality file systems, the new boot process and services management, firewalld, and the GNOME 3 desktop. Written by a Red Hat expert, this book provides the clear explanations and step-by-step instructions that demystify Linux and bring the new features seamlessly into your workflow. This useful guide assumes a base of little or no Linux knowledge, and takes you step by step through what you need to know to get the job done. Get Linux up and running quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Linux Bible, 9th Edition is the one resource you need, and provides the hands-on training that gets you on track in a flash.

This book examines Red Hat Enterprise Linux 8 for the desktop user and administrator (including RHEL 8.1). Though administrative tools are covered, the emphasis is on what a user would need to know to perform tasks. The focus here is on what users face when using Red Hat Enterprise Linux 8, covering topics like applications, the GNOME desktop, shell commands, and the administration and network tools. The GNOME desktop is examined in detail, including configuration options. Administration topics are also covered including user management, software management, repositories, services, systemd, system monitoring, shell configuration, encryption, network connections, shared resources, authentication, SELinux, firewalls, shell configuration, backups, and printers. The book is organized into two parts: desktops and administration.

An overview of the operating system covers the GNOME desktop, popular Linux applications, installation, configuration, system administration, file management, multimedia, and games.

Covers Gnome and KDI programming in the BASH and TCSH shells with Perl, Tcl/Tk, and Gawk.

Linux Journal

The Secret Decoder Ring

The Linux Programming Interface

LINUX

Linux Desktop Garage

Your Linux desktop gets Garage! A complete, real world guide to making your desktop as comfortable as your couch.

The first expert presentation of Linux specifically for Windows users, using Windows terminology and examples, and building on Windows knowledge. Practical and to the point, the authors explain Linux's essentials, dispel its myths, show how to use Linux in an enterprise, and provide practical guidelines and interoperability tips on setting up various Linux servers in a Windows environment.

Showcases the operating system's newest version, covering GUIs, installation, commands, file management, internet connections, LANs, operating system integration, applications, and database administration

"The Second Edition of Security Strategies in Linux Platforms and Applications of with a discussion of risks, threats, and vulnerabilities. Part 2 discusses how to take advantage of the layers of security and the modules associated with AppArmor and SELinux. Part 3 looks at the use of open source and proprietary tools when building a layered security strategy"--

Pro Linux System Administration

Linux For Dummies

Linux Kernel Development

The Linux Command Line

Systems Programming in Unix/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 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 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!

A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You'll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to:

- Extract evidence from storage devices and analyze partition tables, volume managers, popular Linux filesystems (Ext4, Btrfs, and Xfs), and encryption
- Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications
- Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit files and targets leading up to a graphical login
- Perform analysis of power, temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes
- Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros
- Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system
- Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts
- Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings
- Identify traces of attached peripheral devices (PCI, USB, Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity

This newest version of Red Hat covers new features for RH 7 including enhancements to installation, an added chapter on troubleshooting the network, a how to section on doing e-commerce with Red Hat, and an expansion of the former NIS chapter on various types of information servers. This book coordinates with a web site that is updated each month.

The industry favorite Linux guide Linux Bible, 10th Edition is the

ultimate hands-on Linux user guide, whether you're a true beginner or a more advanced user navigating recent changes. This updated tenth edition covers the latest versions of Red Hat Enterprise Linux (RHEL 8), Fedora 30, and Ubuntu 18.04 LTS. It includes information on cloud computing, with new guidance on containerization, Ansible automation, and Kubernetes and OpenShift. With a focus on RHEL 8, this new edition teaches techniques for managing storage, users, and security, while emphasizing simplified administrative techniques with Cockpit. Written by a Red Hat expert, this book provides the clear explanations and step-by-step instructions that demystify Linux and bring the new features seamlessly into your workflow. This useful guide assumes a base of little or no Linux knowledge, and takes you step by step through what you need to know to get the job done. Get Linux up and running quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Simplified Linux administration through the Cockpit Web Interface Automated Linux Deployment with Ansible Learn to navigate Linux with Amazon (AWS), Google (GCE), and Microsoft Azure Cloud services Linux Bible, 10th Edition is the one resource you need, and provides the hands-on training that gets you on track in a flash.

Linux in a Nutshell

Red Hat Enterprise Linux 8: Desktops and Administration

LINUX CLEARLY EXPLAINED

Red Hat Linux Unleashed

Linux for Windows NT/2000 Administrators

Linux Routers, Second Edition shows you exactly how to reduce your costs and extend your network with Linux-based routing. You'll find step-by-step coverage of software/hardware selection, configuration, management, and troubleshooting for today's key internetworking applications, including LANs, Internet/intranet/extranet routers, Frame Relay, VPNs, remote access, and firewalls. Extensive new coverage includes dynamic routing, Quality of Service, the current Linux kernel - even next-generation IPv6 routing.

Written by a team of experts, Red Hat Linux Unleashed is your complete guide to getting the most from Linux. This book and CD-ROM work together to provide you with a complete version of Red Hat Linux 3.0.3 and all of the tools, as well as detailed coverage of every aspect of the Linux system. A guide to the Mandrake distribution of the open-source operating system covers installation, configuration,

*graphical user interfaces, and accompanying applications
With User Mode Linux you can create virtual Linux machines
within a Linux computer and use them to test and debug
applications, network services, and even kernels. This work
covers almost everything from getting started through
running enterprise-class User Mode Linux servers. It offers
advice on bootup, compilation, administration, and more.*

How to Use Linux

*Utilizing Open Source Tools for Online Teaching and
Learning: Applying Linux Technologies*

A Primer for Network Administrators

*Ethical Hacking and Countermeasures: Linux, Macintosh and
Mobile Systems*

Mastering Red Hat Linux 6

This book provides immediate solutions to the most common Linux installation and configuration tasks. It expertly explains the complexities of upgrading an existing Linux installation and rebuilding from source. It covers the use of the most common major Linux servers and utilities, including Apache, Sendmail, majordomo, DHCP, Samba, ISC BIND, and Coda. It also presents strong coverage of kernel configuration, networking, system security, Internet services, LAN services, file systems, and much more.

Covers installation of the operating system, connecting to the Internet, receiving and sending faxes, word processing, StarOffice, and capturing and creating graphics

Explains the workings of the Linux command system, covering shell programs, building file systems, application packages, and networking.

A guide to Linux covers such topics as the command line utilities, the Shells, the Editors, and programming tools.

A Guide for Digital Investigators

Learn to Build Systems for Your Business Using Free and Open Source Software

**Linux System Administration Black Book
Using Linux**

A Practical Guide to Linux Commands, Editors, and Shell Programming

*Get running fast on Linux by learning its leading applications.
Maximize productivity, learn how to use Linux Internet services, how
to work with Emacs and much more. Latest distributions covered
include: RedHat 6, Caldera 2, Debian, and SuSE 6. Two CD-ROMs contain
both RedHat 6 and SuSE 6.*

*Implement a SOHO or SMB Linux infrastructure to expand your business
and associated IT capabilities. Backed by the expertise and
experienced guidance of the authors, this book provides everything
you need to move your business forward. Pro Linux System
Administration makes it easy for small- to medium-sized businesses to
enter the world of zero-cost software running on Linux and covers all
the distros you might want to use, including Red Hat, Ubuntu, Debian,
and CentOS. Pro Linux System Administration takes a layered,*

component-based approach to open source business systems, while training system administrators as the builders of business infrastructure. Completely updated for this second edition, Dennis Matotek takes you through an infrastructure-as-code approach, seamlessly taking you through steps along the journey of Linux administration with all you need to master complex systems. This edition now includes Jenkins, Ansible, Logstash and more. What You'll Learn: Understand Linux architecture Build, back up, and recover Linux servers Create basic networks and network services with Linux Build and implement Linux infrastructure and services including mail, web, databases, and file and print Implement Linux security Resolve Linux performance and capacity planning issues Who This Book Is For: Small to medium-sized business owners looking to run their own IT, system administrators considering migrating to Linux, and IT systems integrators looking for an extensible Linux infrastructure management approach.

The author of Visual C++ Developer's Guide offers expert tips, little-known facts, and insight on the LINUX operating system, from installing the kernel to setting up LINUX as a Web server to developing add-ons. Original. (Intermediate).

Divided into two sections, code and commentary, a valuable resource discusses Linux networking support at the source code level; covers the Linux network stack and code, from the General Network Layer to the Device Drivers Layer; and addresses Linux architecture, Transport Control Protocol (TCP), and more. Original. (Intermediate).

Linux Smart Homes For Dummies

Red Hat Linux 7 Bible

The Installation and Getting Started Guides for Red Hat Linux 6.0 Installation, Configuration, and Use

Linux Command Line and Shell Scripting Bible

LINUX CLEARLY EXPLAINED

Featuring the latest information on the installation and configuration of the Red Hat Linux 7 Server platform, a comprehensive resource shows how to work as a superuser by controlling, monitoring, and automating programs, and covers setting up Intranet/Internet and office services and securing the server by using firewalls and various tools. Original. (Advanced).

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 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 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 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.

Addressing the firewall capabilities of Linux, a handbook for security professionals describes the Netfilter infrastructure in the Linux kernel and explains how to use Netfilter as an intrusion detection system by integrating it with custom open source software and Snort rulesets, discussin such topics as Linux firewall log analysis and policies, passive network authentication and authorization, and more. Original. (Intermediate)

Linux Bible

Linux Routers

Attack Detection and Response with iptables, psad, and fwsnort

Linux Security Secrets & Solutions

Practical Linux Forensics