Python For Unix And Linux System Administration

Building on these fundamentals, you'll walk step-by-step through building cloud-based AI/ML applications to address realistic issues in sports marketing, project management, product pricing, real estate, and beyond. Noah Gift demystifies all the concepts and tools you need to get results—even if you don't have a strong background in math or data science. Get and configure all the tools you'll need Quickly review all the Python you need to start building machine learning applications Master the AI and ML toolchain and project lifecycle Work with Python data science tools such as IPython, Pandas, Numpy, Juypter Notebook, and Sklearn Incorporate a pragmatic feedback loop that continually improves the efficiency of your workflows and systems Develop cloud AI solutions with Google Cloud Platform, including TPU, Colaboratory, and Datalab services Define Amazon Web Services cloud AI workflows, including spot instances, code pipelines, boto, and more Work with Microsoft Azure AI APIs Walk through building six real-world AI applications, from start to finish Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. As you learn how machine language (ML) solutions work, you'll gain a more intuitive understanding of what you can achieve with them and how to maximize their value. Whether you're a business professional, decision-maker, student, or programmer, Gift's expert guidance and wide-ranging case studies will prepare you to solve data science problems in virtually any environment. Gift illuminates powerful off-the-shelf cloud offerings from Amazon, Google, and Microsoft, and demonstrates proven techniques using the Python data science ecosystem. His workflows and examples help you streamline and simplify every step, from deployment to production, and build exceptionally scalable solutions. Master Powerful Off-the-Shelf Business Solutions for AI and Machine Learning Pragmatic AI will help you solve real-world problems with contemporary machine learning, artificial intelligence, and cloud computing tools 90d077b8fe

7 and Python 3 where appropriate. In this updated edition, you will find several projects in the categories of network administration, web server administration, and monitoring and database management. It will also be beneficial for system administrators who want to learn more about automation and want to apply their Python knowledge to solve various system administration problems. This book has been updated using Python 2. It also uses various new and relevant open source projects and tools that should now be used in practice. This book is primarily aimed

at experienced system administrators whose day-to-day tasks involve looking after and managing small-to-medium-sized server estates. Python developers will also benefit from reading this book, especially if they are involved in developing automation and management tools. In each project, the author will define the problem, design the solution, and go through the more interesting implementation steps. Pro Python System Administration, Second Edition explains and shows how to apply Python scripting in practice. Each project is accompanied by the source code of a fully working prototype, which you'll be able to use immediately or adapt to your requirements and environment. It will show you how to approach and resolve real-world issues that most system administrators will come across in their careers 90d077b8fe

Demonstrates the programming language's strength as a Web development tool, covering syntax, data types, built-ins, the Python standard module library, and real world examples 90d077b8fe

A guide geared toward seasoned Linux and Unix administrators offers practical knowledge for managing a range of Linux systems and servers, covering such topics as installing servers, setting up e-mail systems, and creating shell scripts 90d077b8fe

Networking concepts that apply to system administration and specifically how to configure Linux network interfaces. If you're in windows administration and want to learn the ins and outs of Linux administration, start here. How to switch users and run processes as others. By the end of this book you will fully understand the most important and fundamental concepts of Linux server administration. Here is what you will learn by reading this Linux System Administration book: How the the boot process works on Linux servers and what you can do to control it. Managing Linux users and groups. This book is also great for Unix administrators switching to Linux administration. The various types of messages generated by a Linux system, where they're stored, and how to automatically prevent them from filling up your disks. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. How to make the most out of the Linux command line Several Linux commands you'll need to know Linux shell scripting What you learn in book applies to any Linux system including Ubuntu Linux, Debian, Linux Mint, RedHat Linux, CentOS, Fedora, SUSE Linux, Arch Linux, Kali Linux and more. More importantly, you will be able to put those concepts to use in practical real-world situations. Learn Linux Administration and Supercharge Your Career. How to find and install software. Disk management, partitioning, and file system creation. How to schedule and automate jobs using cron. How to use the nano, vi, and emacs editors. You'll be able to configure, maintain, and support a variety of Linux systems. Real Advice from a Real, Professional Linux AdministratorJason Cannon is the author of Linux for Beginners, the founder of the Linux Training Academy,

and an instructor to over 40,000 satisfied students. How to configure sudo. If you're looking to make the jump from being a Linux user to being a Linux administrator, this book is for you. Managing process and jobs. You can even use the skills you learned to become a Linux System Engineer or Linux System Administrator. He started his IT career in the late 1990's as a Unix and Linux System Engineer and he'll be sharing his real-world Linux experience with you throughout this book 90d077b8fe

Next, you'll find recipes on Authentication, Authorization, and Accounting (AAA) and open and proprietary SDN approaches and frameworks. It creates the building blocks for many practical web and networking applications that rely on various networking protocols. This book further elaborates network softwarization, including Software-Defined Networking (SDN), Network Functions Virtualization (NFV), and orchestration. Style and approach This book follows a practical approach and covers major aspects of network programming in Python. You will learn about the concepts and fundamentals of SDN and then extend your network with Mininet. It provides hands-on recipes combined with short and concise explanations on code snippets. What You Will Learn Develop TCP/IP networking client/server applications Administer local machines' IPv4/IPv6 network interfaces Write multi-purpose efficient web clients for HTTP and HTTPS protocols Perform remote system administration tasks over Telnet and SSH connections Interact with popular websites via web services such as XML-RPC, SOAP, and REST APIs Monitor and analyze major common network security vulnerabilities Develop Software-Defined Networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Controllers Emulate simple and complex networks with Mininet and its extensions for network and systems emulations Learn to configure and build network systems and Virtual Network Functions (VNF) in heterogeneous deployment environments Explore various Python modules to program the Internet In Detail Python Network Programming Cookbook - Second Edition highlights the major aspects of network programming in Python, starting from writing simple networking clients to developing and deploying complex Software-Defined Networking (SDN) and Network Functions Virtualization (NFV) systems. This book will serve as a supplementary material to develop hands-on skills in any academic course on network programming. In this edition, you will also be introduced to network modelling to build your own cloud network. Discover practical solutions for a wide range of real-world network programming tasks About This Book Solve real-world tasks in the area of network programming, system/networking administration, network monitoring, and more. If you are a novice, you will develop an understanding of the concepts as you progress with this book. We learn to configure and deploy enterprise network platforms, develop applications on top of them with Python. By the end of this book, you will be able to analyze your network security vulnerabilities using advanced network packet capture and analysis techniques. Familiarize yourself with the fundamentals and functionalities of SDN

Improve your skills to become the next-gen network engineer by learning the various facets of Python programming Who This Book Is For This book is for network engineers, system/network administrators, network programmers, and even web application developers who want to solve everyday network-related problems. It presents the power and beauty of Python to solve numerous real-world tasks in the area of network programming, network and system administration, network monitoring, and web-application development. You will also learn to configure the Linux Foundation networking ecosystem and deploy and automate your networks with Python in the cloud and the Internet scale 90d077b8fe

With platforms designed for rapid adaptation and failure recovery such as Amazon Web Services, cloud computing is more like programming than traditional system administration. Tools for automatic scaling and instance replacement allow even small DevOps teams to manage massively scalable application infrastructures—if team members drop their old views of development and operations and start mastering automation. Launch instances with EC2 or CloudFormation Securely deploy and manage your applications with AWS tools Learn to automate AWS configuration management with Python and Puppet Deploy applications with Auto Scaling and Elastic Load Balancing Explore approaches for deploying application and infrastructure updates Save time on development and operations with reusable components Learn strategies for managing log files in AWS environments Configure a cloud-aware DNS service with Route 53 Use AWS CloudWatch to monitor your infrastructure and applications. Sysadms will learn will learn to automate their favorite tools and processes; developers will pick up enough ops knowledge to build a robust and resilient AWS application infrastructure. This comprehensive guide shows developers and system administrators how to configure and manage AWS services including EC2, CloudFormation, Elastic Load Balancing, S3, and Route 53 90d077b8fe

Beginners who have a keen interest to learn more about Linux administration will also progress quickly with this resourceful learning guide. If you are a Linux administrator who is looking to gain knowledge that differentiates yourself from the crowd, then this is the book for you 90d077b8fe

Provides advice for system administrators on time management, covering such topics as keeping an effective calendar, eliminating time wasters, setting priorities, automating processes, and managing interruptions 90d077b8fe

” —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. 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. If you use UNIX and Linux systems, you need this book in your short-reach library. 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. It’s just straight-forward information delivered in a colorful and memorable fashion. 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. This is one of those cases. “As an author, editor, and publisher, I never paid much attention to the competition—except in a few cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against. ” —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. It covers a bit of the systems’ history but doesn’t bloviate. ” —Jason A. 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 90d077b8fe

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. 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. Backed by the expertise and experienced guidance of the authors, this book provides everything you need to move your business forward. Implement a SOHO or SMB Linux infrastructure to expand your business and associated IT capabilities. This edition now includes Jenkins, Ansible, Logstash and more. 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. 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 90d077b8fe

A True Textbook for an Introductory Course, System 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. Content across most topics has been updated and improved. Details for Introductory and Advanced Users The book covers Linux from both the user and system administrator positions. This edition explores Linux beyond CentOS/Red Hat by adding detail on Debian distributions. 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. 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. From a user perspective, it emphasizes command-line interaction. The book can be used for a one- or two-semester course on Linux or Unix. From a system administrator perspective, the text reinforces shell scripting with examples of administration scripts that support the automation of administrator tasks. New in this Edition The book has been updated to systemd Linux and the newer services like Cockpit, NetworkManager, firewalld and journald 90d077b8fe

The expert authors provide a complete introduction for programmers to both the Python language and the power of the. NET framework. NET applications with Python, using IronPython with. Also available is all code from the book. IronPython in Action offers a comprehensive, hands-on introduction to Microsoft's exciting new approach for programming the. NET 3. NET language, fully integrated with the. NET framework with live objects. IronPython opens up exciting new possibilities. The book also shows how to extend IronPython with C#, extending C# and VB. NET framework. The starting point for this project was a. NET framework. IronPython in Action explores these topics with examples, making use of the Python interactive console to explore the. NET implementation of Python, dubbed IronPython. It approaches IronPython as a first class. You'll learn how IronPython can be embedded as a ready-made scripting language into C# and VB. In this book, authors Michael Foord and Christian Muirhead explore the world of functional programming, live introspection, dynamic typing and duck typing , metaprogramming, and more. NET programs, used for writing full applications or for web development with ASP. NET platform. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. 0 and Powershell, IronPython as a Windows scripting tool, and much more. In 2005, Microsoft quietly announced an initiative to bring dynamic languages to the. After a couple years of incubation, IronPython is ready for real-world use. NET environment, Visual Studio, and even the open-source Mono implementation. Even better, you'll see how

IronPython works in Silverlight for client-side web programming. It blends the simplicity, elegance, and dynamism of Python with the power of the. Because it's a dynamic language, it permits programming paradigms not easily available in VB and C# 90d077b8fe

The Linux Administration Cookbook is your go-to guide to get started on your Linux journey. 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. This book will get you started with administering Linux, giving you the knowledge 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. What you will learnInstall and manage a Linux server, both locally and in the cloudUnderstand how to perform administration across all Linux distrosWork through evolving concepts such as IaaS versus PaaS, containers, and automationExplore security and configuration best practicesTroubleshoot your system if something goes wrongDiscover and mitigate hardware issues, such as faulty memory and failing drivesWho 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 100 recipes to get up and running with the modern Linux administration ecosystem Key FeaturesUnderstand and implement the core system administration tasks in LinuxDiscover tools and techniques to troubleshoot your Linux systemMaintain a healthy system with good security and backup practicesBook 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. 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 90d077b8fe

Key FeaturesLearn how to solve problems of system administrators and automate routine activitiesLearn to handle regular expressions, network administration Building GUI, web-scraping and database administration including data analyticsBook Description Python has evolved over time and extended its features in relation to every possible IT operation. Leverage the features and libraries of Python to administrate your environment efficiently. This book will initially cover Python installation and quickly revise basic to advanced programming fundamentals. The objective of this book is to walk through a series of projects that will teach readers Python scripting with each project. The book will then focus on the development process as a whole, from setup to planning to building different

tools. Prior knowledge of Python would be necessary. It will include IT administrators' routine activities (text processing, regular expressions, file archiving, and encryption), network administration (socket programming, email handling, the remote controlling of devices using telnet/ssh, and protocols such as SNMP/DHCP), building graphical user interface, working with websites (Apache log file processing, SOAP and REST APIs communication, and web scraping), and database administration (MySQL and similar database data administration, data analytics, and reporting). By the end of this book, you will be able to use the latest features of Python and be able to build powerful tools that will solve challenging, real-world tasks What you will learnUnderstand how to install Python and debug Python scriptsUnderstand and write scripts for automating testing and routine administrative activitiesUnderstand how to write scripts for text processing, encryption, decryption, and archivingHandle files, such as pdf, excel, csv, and txt files, and generate reportsWrite scripts for remote network administration, including handling emailsBuild interactive tools using a graphical user interfaceHandle Apache log files, SOAP and REST APIs communicationAutomate database administration and perform statistical analysisWho this book is for This book would be ideal for users with some basic understanding of Python programming and who are interested in scaling their programming skills to command line scripting and system administration. Python is simple to learn, yet has powerful libraries that can be used to build powerful Python scripts for solving real-world problems and automating administrators' routine activities 90d077b8fe

Reinforce what you have learned with the exclusive Sybex online learning environment, assessable across multiple devices. Includes interactive online learning environment with: Custom practice exams 150 electronic flashcards Searchable key term glossary Interactive learning environment Take your exam prep to the next level with Sybex's superior interactive online tools. 150 Electronic Flashcards to reinforce learning and provide last minute prep before the exam. Your complete guide to preparing for the LPIC-1 Linux Professional Institute Certification Exams 101-400 and 102-400 The LPIC-1 Linux Professional Institute Certification Study Guide, 4th Edition is your one-stop resource for complete coverage of Exams 101-400 and 102- 400. You'll prepare for the exams smarter and faster with Sybex thanks to superior content including, assessment tests that check exam readiness, objective map, real-world scenarios, hands-on exercises, key topic exam essentials, and challenging chapter review questions. Get prepared for the LPIC-1 Exams 101-400 and 102-400 with Sybex. To access the learning environment, simply visit: http://sybextestbanks. Coverage of 100% of all exam objectives in this Study Guide means you'll be ready for: Managing Software Configuring Hardware Managing Files Booting Linux and Editing Files Configuring the X Window System Configuring Basic Networking Writing Scripts, Configuring Email, and Using Databases Covers 100% of exam objectives, including system architecture, GNU and UNIX commands, shells, scripting, and data management,

administrative tasks, system services, networking, and much more. wiley. Comprehensive searchable glossary in PDF format gives you instant access to the key terms so you are fully prepared. com, type in your unique PIN and instantly gain access to: Interactive online learning environment and test bank covering both LPIC-1 exams, including 200 chapter review questions and two 50-question bonus exams. This Sybex Study Guide covers 100% of all exam 101-400 and 102-400 objectives 90d077b8fe

A guide to using the Python computer language to handle a variety of tasks in both the Unix and Linux servers 90d077b8fe

Develop the skills to manage and administer Red Hat Enterprise Linux and get ready to earn the RHCSA certification Key FeaturesLearn the most common administration and security tasks and manage enterprise Linux infrastructures efficientlyAssess your knowledge using self-assessment questions based on real-world examplesUnderstand how to apply the concepts of core systems administration in the real worldBook Description Whether in infrastructure or development, as a DevOps or site reliability engineer, Linux skills are now more relevant than ever for any IT job, forming the foundation of understanding the most basic layer of your architecture. The content does not reflect the views of their employer (Red Hat Inc. As you advance, the book will help you explore disk partitioning, LVM configuration, Stratis volumes, disk compression with VDO, and container management with Podman, Buildah, and Skopeo. What you will learnDeploy RHEL 8 in different footprints, from bare metal and virtualized to the cloudManage users and software on local and remote systems at scaleDiscover how to secure a system with SELinux, OpenSCAP, and firewalldGain an overview of storage components with LVM, Stratis, and VDOMaster remote administration with passwordless SSH and tunnelsMonitor your systems for resource usage and take actions to fix issuesUnderstand the boot process, performance optimizations, and containersWho this book is for This book is for IT professionals or students who want to start a career in Linux administration and anyone who wants to take the RHCSA 8 certification exam. You'll then understand how to manage users and groups on an RHEL 8 system, install software packages, and configure your network interfaces and firewall. Basic knowledge of Linux and familiarity with the Linux command-line is necessary. This work has no connection to Red Hat, Inc. You'll start by learning how to create an RHEL 8 virtual machine and get to grips with essential Linux commands.). This book and its contents are solely the work of Miguel Perez Colino, Pablo Iranzo Gomez, and Scott McCarty. and is not endorsed or supported by Red Hat, Inc. With Red Hat Enterprise Linux (RHEL) becoming the most popular choice for enterprises worldwide, achieving the Red Hat Certified System Administrator (RHCSA) certification will validate your Linux skills to install, configure, and troubleshoot applications and services on RHEL systems. By the end of this book, you'll have covered everything included in the RHCSA EX200

certification and be able to use this book as a handy, on-the-job desktop reference guide. Complete with easy-to-follow tutorial-style content, self-assessment questions, tips, best practices, and practical exercises with detailed solutions, this book covers essential RHEL commands, user and group management, software management, networking fundamentals, and much more 90d077b8fe

Whether you use a standalone Unix system, routinely provide administrative support for a larger shared system, or just want an understanding of basic administrative functions, Essential System Administration is for you. It is not organized around the features of the Unix operating system, but around the various facets of a system administrator's job. But what has made this book the guide system administrators turn to over and over again is not just the sheer volume of valuable information it provides, but the clear, useful way the information is presented. Even more importantly, it has been extensively revised and expanded to consider the current system administrative topics that administrators need most. Essential System Administration,3rd Edition is the definitive guide for Unix system administration, covering all the fundamental and essential tasks required to run such divergent Unix systems as AIX, FreeBSD, HP-UX, Linux, Solaris, Tru64 and more. This comprehensive and invaluable book combines the author's years of practical experience with technical expertise to help you manage Unix systems as productively and painlessly as possible. Essential System Administration is comprehensive. It describes all the usual administrative tools that Unix provides, but it also shows how to use them intelligently and efficiently. The new edition of this indispensable reference has been fully updated for all the latest operating systems. It discusses the underlying higher-level concepts, but it also provides the details of the procedures needed to carry them out. Essential System Administration,3rd Edition covers: DHCP, USB devices, the latest automation tools, SNMP and network management, LDAP, PAM, and recent security tools and techniques. Essential System Administration provides a clear, concise, practical guide to the real-world issues that anyone responsible for a Unix system faces daily 90d077b8fe

Now, the authors have systematically updated this classic guide to address today’s most important Linux distributions and most powerful new administrative tools. The authors spell out detailed best practices for every facet of system administration, including storage management, network design and administration, web hosting, software configuration management, performance analysis, Windows interoperability, and much more. Unique and highly recommended. ” –Linus Torvalds “The most successful sysadmin book of all time–because it works. Linux® Administration Handbook, Second Edition, reflects the current versions of these leading distributions: Red Hat® Enterprise Linux® FedoraTM Core SUSE® Linux Enterprise Debian® GNU/Linux Ubuntu® Linux Sharing their war stories and hard-won insights, the authors capture the behavior of Linux systems in the real world,

not just in ideal environments. ” –Jonathan Corbet, cofounder, LWN. Thanks to the ongoing efforts of thousands of Linux developers, Linux is more ready than ever for deployment at the frontlines of the real world. ” –Rik Farrow, editor of ;login: “This book clearly explains current technology with the perspective of decades of experience in large-scale system administration. Sysadmins will especially appreciate the thorough and up-to-date discussions of such difficult topics such as DNS, LDAP, security, and the management of IT service organizations. net “Nemeth et al. net Since 2001, Linux Administration Handbook has been the definitive resource for every Linux® system administrator who must efficiently solve technical problems and maximize the reliability and performance of a production environment. ” –Peter Salus, editorial director, Matrix. The authors of this book know that terrain well, and I am happy to leave you in their most capable hands. They explain complex tasks in detail and illustrate these tasks with examples drawn from their extensive hands-on experience. is the overall winner for Linux administration: it’s intelligent, full of insights, and looks at the implementation of concepts. “As this book shows, Linux systems are just as functional, secure, and reliable as their proprietary counterparts 90d077b8fe

C and C++ programmers interested in different approaches to concurrency and Linux systems programming. Where C programmers used to rule, Go programmers are in demand to write highly optimized systems programming code. This book opens up the world of high-performance Unix system applications to the beginning Go programmer. Network programmers from beginners to advanced practitioners. Created by some of the original designers of C and Unix, Go expands the systems programmers toolkit and adds a mature, clear programming language. Traditional system applications become easier to write since pointers are not relevant and garbage collection has taken away the most problematic area for low-level systems code: memory management. It is also the language in which some of the most prominent cloud-level systems have been written, such as Docker. It does not get stuck on single systems or even system types, but tries to expand the original teachings from Unix system level programming to all types of servers, the cloud, and the web. What You Will Learn Explore the Go language from the standpoint of a developer conversant with Unix, Linux, and so on Understand Goroutines, the lightweight threads used for systems and concurrent applications Learn how to translate Unix and Linux systems code in C to Golang code How to write fast and lightweight server code Dive into concurrency with Go Write low-level networking code In Detail Go is the new systems programming language for Linux and Unix systems. Learning the new system's programming language for all Unix-type systems About This Book Learn how to write system's level code in Golang, similar to Unix/Linux systems code Ramp up in Go quickly Deep dive into Goroutines and Go concurrency to be able to take advantage of Go server-level constructs Who This Book Is For Intermediate Linux and general Unix programmers. Style and approach This is the first book to introduce Linux and Unix systems programming in

Go, a field for which Go has actually been developed in the first place 90d077b8fe

like a magazine that you don't read from start to finish, but leaf through repeatedly until you realize that you've read it all. The latest edition of this best-selling favorite is loaded with advice about almost every aspect of Unix, covering all the new technologies that users need to know. With the growing popularity of Linux and the advent of Darwin, Unix has metamorphosed into something new and exciting. Bursting with cross-references, interesting sidebars explore syntax or point out other directions for exploration, including relevant technical details that might not be immediately apparent. But whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the goldmine of information in the new edition of Unix Power Tools to add to your store of knowledge. Your own solutions won't be far behind. No longer perceived as a difficult operating system, more and more users are discovering the advantages of Unix for the first time. It will help you think creatively about UNIX, and will help you get to the point where you can analyze your own problems. Unix Power Tools 3rd Edition is a browser's book. The book includes articles abstracted from other O'Reilly books, new information that highlights program tricks and gotchas, tips posted to the Net over the years, and other accumulated wisdom. Check this book first, and you're sure to find a tip or trick that will prevent you from learning things the hard way. And there is a new chapter on access to Unix from Windows, addressing the heterogeneous nature of systems today. Affectionately referred to by readers as \"the\" Unix book, UNIX Power Tools provides access to information every Unix user is going to need to know. Want to try something new. In addition to vital information on Linux, Darwin, and BSD, Unix Power Tools 3rd Edition now offers more coverage of bash, zsh, and other new shells, along with discussions about modern utilities and applications. You'll also find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. Several sections focus on security and Internet access 90d077b8fe

But it's likely that readers will also get a taste of what Perl can do, and start extending those scripts for tasks that we haven't dreamed of. The scripts included in the book can simply be used as written or with minimal adaptation. Perl for System Administration is designed for all levels of administrators--from hobbyists to card-carrying SAGE members--sysadmins on multi-platform sites. Thus enters Perl. The rest of us are thrust into it: we are webmasters, hobbyists, or just the default \"technical people\" on staff who are expected to keep things running. The Perl programming language is ideal for writing quick yet powerful scripts that automate many administrative tasks. It's for anyone who needs to use Perl for system administration and needs to hit the ground running. It's modular, it's powerful, and it's perfect for managing systems and services on many platforms. Some people plan to become administrators. Perl for System Adminstration doesn't attempt to teach the Perl language, but it is an excellent introduction to the power and

flexibility of Perl, and it whets the appetite to learn more. Written for several different platforms (Unix, Windows NT, and Mac OS), it's a guide to the pockets of administration where Perl can be most useful for sites large and small, including: Filesystem management User administration with a dash of XML DNS and other network name services Database administration using DBI and ODBC Directory services and frameworks like LDAP and ADSI Using email for system administration Working with log files of all kinds Each chapter concentrates on a single administrative area, discusses the possible pitfalls, and then shows how Perl comes to the rescue. Along the way we encounter interesting Perl features and tricks, with many extended examples and complete programs. After some stumbling around repeating the same steps over and over again (and occasionally paying the price when we forget one), we realize that we must automate these tasks, or suffer endless frustration 90d077b8fe

This book covers the important topics you need to know about for your everyday Linux administration tasks. The book starts by helping you understand the Linux command line and how to work with files, packages, and filesystems. As you advance through the chapters, you'll work with containers, hypervisors, virtual machines, Ansible, and Kubernetes. If you also find yourself adopting DevOps practices in the process, we'll consider our mission accomplished. What you will learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem, network, security, and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux, AppArmor, and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration, this book is for you. Once you've learned how to work with the command line, you'll explore the essential Linux commands for managing users, processes, and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers. You'll then begin administering network services and hardening security, and learn about cloud computing, containers, and orchestration. Develop advanced skills for working with Linux systems on-premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem, packages, users, processes, and daemonsDeploy Linux to the cloud with AWS, Azure, and KubernetesBook Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on-premises and in the cloud. Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book. By the

end of this Linux book, you'll be well-versed with Linux and have mastered everyday administrative tasks using workflows spanning from on-premises to the cloud. You'll also learn how to deploy Linux to the cloud using AWS and Azure 90d077b8fe

Written by Evi Nemeth, Garth Snyder, Scott Seebass, and Trent R. ' We were most impressed, until we noticed that the same staff member had also recommended Aunt Bea's Mayberry Cookbook. \" –Eric Allman and Marshall Kirk McKusick \"I am pleased to welcome Linux to the UNIX System Administration Handbook. \"This book is where I turn first when I have system administration questions. UNIX System Administration Handbook describes every aspect of system administration–from basic topics to UNIX esoterica–and provides explicit coverage of four popular UNIX systems: This book stresses a practical approach to system administration. The third edition has been expanded to include \"direct from the frontlines\" coverage of Red Hat Linux. Difficult subjects such as sendmail, kernel building, and DNS configuration are tackled head-on. This is a book for the rest of us. Hein with Adam Boggs, Rob Braun, Ned McClain, Dan Crawl, Lynda McGinley, and Todd Miller \"This is not a nice, neat book for a nice, clean world. \" –W. Examples are provided for all four versions of UNIX and are drawn from real-life systems–warts and all. \" –Shannon Bloomstran, history teacher. \" –Pat Parseghian, Transmeta \"We noticed your book on the staff recommendations shelf at our local bookstore: 'Very clear, a masterful interpretation of the subject. Now covers Red Hat Linux. \" –Linus Torvalds, Transmeta \"This book is most welcome. Their perspective on the variations among systems is valuable for anyone who runs a heterogeneous computing facility. \" –Dennis Ritchie, AT&T Bell Laboratories This new edition of the world's most comprehensive guide to UNIX system administration is an ideal tutorial for those new to administration and an invaluable reference for experienced professionals. It is truly a wonderful resource and always within reach of my terminal. It's packed with war stories and pragmatic advice, not just theory and watered-down restatements of the manuals. The authors present the facts along with seasoned advice and numerous real-world examples. Richard Stevens, author of numerous books on UNIX and TCP/IP \"This is a comprehensive guide to the care and feeding of UNIX systems. It's a nasty book for a nasty world 90d077b8fe

Python is an ideal language for solving problems, especially in Linux and Unix networks. With this pragmatic book, administrators can review various tasks that often occur in the management of these systems, and learn how Python can provide a more efficient and less painful way to handle them 90d077b8fe

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. Inside, you’ll find the kind of knowledge that normally comes from years of experience doing things

the hard way. Unlike some operating systems, Linux doesn’t try to hide the important bits from you—it gives you full control of your computer. In this completely revised second edition of the 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. 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. 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 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 90d077b8fe

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

project by project. Each chapter ends with a review of best practices, new terms, and exercises. You'll try out interesting examples as you lock in core practices like virtualization, disaster recovery, security, backup, DevOps, and system troubleshooting 90d077b8fe

This unique and valuable collection of tips, tools, and scripts provides clear, concise, hands-on solutions that can be applied to the challenges facing anyone running a network of Linux servers from small networks to large data centers in the practical and popular problem-solution-discussion O'Reilly cookbook format. This cookbook's proven techniques distill years of hard-won experience into practical cut-and-paste solutions to everyday Linux dilemmas. Whether you're responsible for a small Linux system, a huge corporate system, or a mixed Linux/Windows/MacOS network, you'll find valuable, to-the-point, practical recipes for dealing with Linux systems everyday. The Linux Cookbook is more than a time-saver; it's a sanity saver. The knowledge needed to install, deploy, and maintain Linux is not easily found, and no Linux distribution gets it just right. But those who prefer to learn hands-on will find that this cookbook not only solves immediate problems quickly, it also cuts right to the chase pointing out potential pitfalls and illustrating tested practices that can be applied to a myriad of other situations. But it also covers the non-obvious information that is often ignored in other books the time-sinks and headaches that are a real part of an administrator's job, such as: dealing with odd kinds of devices that Linux historically hasn't supported well, building multi-boot systems, and handling things like video and audio. Scattered information can be found in a pile of man pages, texinfo files, and source code comments, but the best source of information is the experts themselves who built up a working knowledge of managing Linux systems. Use just one recipe from this varied collection of real-world solutions, and the hours of tedious trial-and-error saved will more than pay for the cost of the book. The Linux Cookbook covers everything you'd expect: backups, new users, and the like 90d077b8fe

It is intended to help orient you within the discipline, and hopefully encourages you to learn more about system administration. 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 90d077b8fe

You'll find everything you need to get up and running with any Linux distribution, including the latest version of Red Hat. Learn to install and administer Linux on an individual workstation or an entire network with this comprehensive in depth reference. Updated to cover the new 2. If you are a professional administrator wanting to bring Linux into your network topology, a home user with multiple machines wanting to build a simple home network, or are migrating from Windows, then you need this book. 4 kernel and complete with an expanded section on

advanced networking, this book shows you how to install and configure Linux, set up Internet services, handle single-host administration, and much more. Plus, you'll get eight pages of blueprints illustrating the differences between Linux and Windows NT/2000 90d077b8fe

Organized by do-it-yourself tasks, the book includes instructor materials like a sample syllabus, additional review questions, and slide decks. Achieve Linux system administration mastery with time-tested and proven techniques In Mastering Linux System Administration, Linux experts and system administrators Christine Bresnahan and Richard Blum deliver a comprehensive roadmap to go from Linux beginner to expert Linux system administrator with a learning-by-doing approach. Amongst the practical applications of the Linux operating system included within, you'll find detailed and easy-to-follow instruction on: Installing Linux servers, understanding the boot and initialization processes, managing hardware, and working with networks Accessing the Linux command line, working with the virtual directory structure, and creating shell scripts to automate administrative tasks Managing Linux user accounts, system security, web and database servers, and virtualization environments Perfect for entry-level Linux system administrators, as well as system administrators familiar with Windows, Mac, NetWare, or other UNIX systems, Mastering Linux System Administration is a must-read guide to manage and secure Linux servers 90d077b8fe

Discover how this language can help you: Read text files and extract information Run tasks concurrently using the threading and forking options Get information from one process to another using network facilities Create clickable GUIs to handle large and complex utilities Monitor large clusters of machines by interacting with SNMP programmatically Master the IPython Interactive Python shell to replace or augment Bash, Korn, or Z-Shell Integrate Cloud Computing into your infrastructure, and learn to write a Google App Engine Application Solve unique data backup challenges with customized scripts Interact with MySQL, SQLite, Oracle, Postgres, Django ORM, and SQLAlchemy With this book, you'll learn how to package and deploy your Python applications and libraries, and write code that runs equally well on multiple Unix platforms. You'll also learn about several Python-related technologies that will make your life much easier. Python is an ideal language for solving problems, especially in Linux and Unix networks. Each chapter in Python for Unix and Linux System Administration presents a particular administrative issue, such as concurrency or data backup, and presents Python solutions through hands-on examples. With this pragmatic book, administrators can review various tasks that often occur in the management of these systems, and learn how Python can provide a more efficient and less painful way to handle them. Once you finish this book, you'll be able to develop your own set of command-line utilities with Python to tackle a wide range of problems 90d077b8fe

6 of the Linux kernel. Presents an overview of kernel configuration and building for version 2 90d077b8fe

Updated and expanded to cover the latest operating systems, technologies, and Perl modules, this edition of the \"Otter Book\" will help you: Manage user accounts Monitor filesystems and processes Work with configuration files in important formats such as XML and YAML Administer databases, including MySQL, MS-SQL, and Oracle with DBI Work with directory services like LDAP and Active Directory Script email protocols and spam control Effectively create, handle, and analyze log files Administer network name and configuration services, including NIS, DNS and DHCP Maintain, monitor, and map network services, using technologies and tools such as SNMP, nmap, libpcap, GraphViz and RRDtool Improve filesystem, process, and network security This edition includes additional appendixes to get you up to speed on technologies such as XML/XPath, LDAP, SNMP, and SQL. Automating System Administration with Perl, Second Edition, not only offers you the right tools for your job, but also suggests the best way to approach specific problems and to securely automate recurring tasks. With this book in hand and Perl in your toolbox, you can do more with less -- fewer resources, less effort, and far less hassle. If you do systems administration work of any kind, you have to deal with the growing complexity of your environment and increasing demands on your time 90d077b8fe

Being able to understand and resolve problems will save you invaluable time. 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. 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. Debian GNU/Linux, a very popular non-commercial Linux distribution, is known for its reliability and richness. Learn more about the book on its official website: debian-handbook. This Debian Administrator's Handbook, which has been entirely updated for Debian 8 “Jessie”, builds on the success of its 6 previous editions. Built and maintained by an impressive network of thousands of developers throughout the world, the Debian project is cemented by its social contract. 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. Accessible to all, this book teaches the essentials to anyone who wants to become an effective and independent Debian GNU/Linux administrator. This foundation text defines the project's objective: fulfilling the needs of users with a 100% free operating system. info 90d077b8fe

With this book, you'll learn how to develop software and solve problems using containers, as well as how to monitor, instrument, load-test, and operationalize your software. Learning how to interact and automate with Linux is essential for millions of professionals. Much has changed in technology over the past decade. Python makes it much easier. Throughout these transformations, Python has become one of the most popular languages in the world. Looking for effective ways to \"get stuff done\" in Python. This is your guide. This practical resource shows you how to use Python for everyday Linux systems administration tasks with today's most useful DevOps tools, including Docker, Kubernetes, and Terraform. Data is hot, the cloud is ubiquitous, and many organizations need some form of automation. Python foundations, including a brief introduction to the language How to automate text, write command-line tools, and automate the filesystem Linux utilities, package management, build systems, monitoring and instrumentation, and automated testing Cloud computing, infrastructure as code, Kubernetes, and serverless Machine learning operations and data engineering from a DevOps perspective Building, deploying, and operationalizing a machine learning project 90d077b8fe

Fully up to date with version 6 of Red Hat, this handbook gives readers everything they need to install, configure and administer Red Hay systems. Both novice and experienced system administrators can use this book to master Linux networking, file service, e-mail, security, back-ups, print sharing, Web, FTP, and much more 90d077b8fe

bull; Written by the creator of Webmin -- the most popular GUI admin tool for Linux bull; Webmin is currently downloaded 4000 times a day & -- nearly one million times of all versions in the last year. Shows how to use Webmin to configure Apache, Sendmail, and other complex Linux servers bull; Start developing your own Webmin modules and themes with the complete reference for the API 90d077b8fe

Each topic is presented in an easy-to-follow order, with hands-on activities to reinforce the content. If you are starting out with Linux from a different platform or are well versed with Linux Mint and want a guide that shows you how to exploit certain functionality, this book is for you. No previous Linux experience is assumed. A task-oriented look at Linux Mint, using actual real-world examples to stimulate learning 90d077b8fe

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