Linux Cookbook Tips And Techniques For Everyday Use One Off

Provides step-by-step instructions on how to use the computer operating system Linux.

The SPIN workshop is a forum for researchers interested in the subject of automata-based, explicit-state model checking technologies for the analysis and veri?cation of asynchronous concurrent and distributed systems. The SPIN - del checker (http://netlib.bell-labs.com/netlib/spin/whatisspin.html), developed by Gerard Holzmann, is one of the best known systems of this kind, and has attracted a large user community. This can likely be attributed to its e?cient state exploration algorithms. The fact that SPIN's modeling language, Promela, resembles a programming language has probably also contributed to its success. Traditionally, the SPIN workshops present papers on extensions and uses of SPIN. As an experiment, this year's workshop was broadened to have a slightly wider focus than previous workshops in that papers on software veri?cation were encouraged. Consequently, a small collection of papers describe attempts to analyze and verify programs written in conventional programming languages. Solutions include translations from source code to Promela, as well as specially

designed model checkers that accept source code. We believe that this is an - teresting research direction for the formal methods community, and that it will result in a new set of challenges and solutions. Of course, abstraction becomes the key solution to deal with very large state spaces. However, we also see - tential for integrating model checking with techniques such as static program analysis and testing. Papers on these issues have therefore been included in the proceedings.

Over 60 recipes for the administration and management of Microsoft System Center Virtual Machine Manager 2012 SP1 Overview Create, deploy, and manage Datacentres, Private and Hybrid Clouds with hybrid hypervisors by using VMM 2012 SP1, App Controller, and Operations Manager. Integrate and manage fabric (compute, storages, gateways, networking) services and resources. Deploy Clusters from bare metal servers. Learn how to use VMM 2012 SP1 features such as Windows 2012 and SQL 2012 support, Network Virtualization, Live Migration, Linux VMs, Resource Throttling, and Availability. In Detail Microsoft System Center 2012 is a comprehensive IT infrastructure, virtualization, and cloud management platform. With System Center 2012, you can more easily and efficiently manage your applications and services across multiple hypervisors as well as across public and private cloud infrastructures to deliver flexible and cost-

effective IT services for your business. This cookbook covers architecture design and planning and is full of deployment tips, techniques, and solutions designed to show users how to improve VMM 2012 in a real world scenario. It will guide you to create, deploy, and manage your own Private Cloud with a mix of Hypervisors: Hyper-V, Vmware ESXi, and Citrix XenServer. It also includes the VMM 2012 SP1 features. This book is a cookbook that covers architecture design, planning and is full of deployment tips, techniques and solutions designed to show users how to improve VMM 2012 in a real world scenario. It will guide you to create, deploy and manage your own Private Cloud with a mix of Hypervisors: Hyper-V, Vmware ESXi and Citrix XenServer. What you will learn from this book How to use VMM Architecture and plan for a real word deployment Utilize Network Virtualization, Gateway integration, Storage integration, Resource Throttling, and Availability options Deploy Operations Manager and integrate with VMM Integrate SC APP Controller with VMM to manage Private and Public Clouds (Azure) Cluster deployment with VMM Bare Metal Create and deploy Virtual Machines from Templates Deploy a highly available VMM Management Server Manage Hyper-V, Vmware, and Citrix from VMM How to upgrade from SCVMM 2008R2 to SCVMM 2012 SP1 Approach This is a Packt Cookbook, full with over 75 recipes for VMM users to carry out vital tasks quickly and easily. Who this book is

written for This book is written for solutions architects, technical consultants, administrators, and any other virtualization lover who needs to use Microsoft System Center Virtual Machine Manager in a real world environment. Discusses the desktop capabilities of Linux and the K Desktop Environment (KDE) graphical user interface and provides information on topics including e-mail, browsing the Internet, and working with the command line. Computer security is an ongoing process, a relentless contest between system administrators and intruders. A good administrator needs to stay one step ahead of any adversaries, which often involves a continuing process of education. If you're grounded in the basics of security, however, you won't necessarily want a complete treatise on the subject each time you pick up a book. Sometimes you want to get straight to the point. That's exactly what the new Linux Security Cookbook does. Rather than provide a total security solution for Linux computers, the authors present a series of easy-to-follow recipes--short, focused pieces of code that administrators can use to improve security and perform common tasks securely.The Linux Security Cookbook includes real solutions to a wide range of targeted problems, such as sending encrypted email within Emacs, restricting access to network services at particular times of day, firewalling a webserver, preventing IP spoofing, setting up key-based SSH authentication, and

much more. With over 150 ready-to-use scripts and configuration files, this unique book helps administrators secure their systems without having to look up specific syntax. The book begins with recipes devised to establish a secure system, then moves on to secure day-to-day practices, and concludes with techniques to help your system stay secure.Some of the "recipes" you'll find in this book are: Controlling access to your system from firewalls down to individual services, using iptables, ipchains, xinetd, inetd, and more Monitoring your network with tcpdump, dsniff, netstat, and other tools Protecting network connections with Secure Shell (SSH) and stunnel Safeguarding email sessions with Secure Sockets Layer (SSL) Encrypting files and email messages with GnuPG Probing your own security with password crackers, nmap, and handy scripts This cookbook's proven techniques are derived from hard-won experience. Whether you're responsible for security on a home Linux system or for a large corporation, or somewhere in between, you'll find valuable, to-the-point, practical recipes for dealing with everyday security issues. This book is a system saver.

Full of tips, tricks, and helpful pointers, this is a hands-on, project-based guide to Ubuntu, a completely free Linux operating system. The authors tackle topics of interest to the everyday user, such as customizing the desktop, installing

programs, and playing audio and video.

Master over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL About This Book Create a PostgreSQL cluster that stays online even when disaster strikes Avoid costly downtime and data loss that can ruin your business Updated to include the newest features introduced in PostgreSQL 9.6 with hands-on industry-driven recipes Who This Book Is For If you are a PostgreSQL DBA working on Linux systems who want a database that never gives up, this book is for you. If you've ever experienced a database outage, restored from a backup, spent hours trying to repair a malfunctioning cluster, or simply want to guarantee system stability, this book is definitely for you. What You Will Learn Protect your data with PostgreSQL replication and management tools such as Slony, Bucardo, pglogical, and WAL-E Hardware planning to help your database run efficiently Prepare for catastrophes and prevent them before they happen Reduce database resource contention with connection pooling using pgpool and PgBouncer Automate monitoring and alerts to visualize cluster activity using Nagios and collected Construct a robust software stack that can detect and fix outages Learn simple PostgreSQL High Availability with Patroni, or dive into the full power of Pacemaker. In Detail Databases are nothing without the data they store. In the event of a failure -

catastrophic or otherwise - immediate recovery is essential. By carefully combining multiple servers, it's even possible to hide the fact a failure occurred at all. From hardware selection to software stacks and horizontal scalability, this book will help you build a versatile PostgreSQL cluster that will survive crashes, resist data corruption, and grow smoothly with customer demand. It all begins with hardware selection for the skeleton of an efficient PostgreSQL database cluster. Then it's on to preventing downtime as well as troubleshooting some real life problems that administrators commonly face. Next, we add database monitoring to the stack, using collectd, Nagios, and Graphite. And no stack is complete without replication using multiple internal and external tools, including the newly released pglogical extension. Pacemaker or Raft consensus tools are the final piece to grant the cluster the ability to heal itself. We even round off by tackling the complex problem of data scalability. This book exploits many new features introduced in PostgreSQL 9.6 to make the database more efficient and adaptive, and most importantly, keep it running. Style and approach This book contains practical recipes that will help the reader solve real world problems related to high availability in PostgreSQL. Every recipe is explained in detail, with relevant explanations, tips and tricks provided for quicker and easier understanding.

Over 50 recipes to help you quickly and efficiently build applications with Swift 4 and Xcode 9 About This Book Write robust and efficient code and avoid common pitfalls using Swift 4 Get a comprehensive coverage of the tools and techniques needed to create multi-platform apps with Swift 4 Packed with easy-to-follow recipes, this book will help you develop code using the latest version of Swift Who This Book Is For If you are looking for a book to help you learn about the diverse features offered by Swift 4 along with tips and tricks to efficiently code and build applications, then this book is for you. Basic knowledge of Swift or general programming concepts will be beneficial. What You Will Learn Explore basic to advanced concepts in Swift 4 Programming Unleash advanced features of Apple's Xcode 9 IDE and Swift Playgrounds Learn about the conditional statements, loops, and how to handle errors in Swift Define flexible classes and structs using Generics, and learn about the advanced operators, and create custom operators Explore functionalities outside of the standard libraries of Swift Import your own custom functionality into Swift Playgrounds Run Swift on Linux and investigate server-side programming with the server side framework Vapor In Detail Swift 4 is an exciting, multi-platform, general-purpose programming language. Being open source, modern and easy to use has made Swift one of the fastest growing programming languages. If you interested in exploring it, then

this book is what you need. The book begins with an introduction to the basic building blocks of Swift 4, its syntax and the functionalities of Swift constructs. Then, introduces you to Apple's Xcode 9 IDE and Swift Playgrounds, which provide an ideal platform to write, execute, and debug the codes thus initiating your development process. Next, you'll learn to bundle variables into tuples, set order to your data with an array, store key-value pairs with dictionaries and you'll learn how to use the property observers. Later, explore the decision-making and control structures in Swift and learn how to handle errors in Swift 4. Then you'll, examine the advanced features of Swift, generics and operators, and then explore the functionalities outside of the standard library, provided by frameworks such as Foundation and UIKit. Also, you'll explore advanced features of Swift Playgrounds. At the end of the book, you'll learn server-side programming aspect of Swift 4 and see how to run Swift on Linux and then investigate Vapor, one of the most popular server-side frameworks for Swift. Style and approach Each recipe addresses a specific problem, with a detailed discussion that explains the solution and offers insight into how it works. The key to mastering any Unix system, especially Linux and Mac OS X, is a thorough knowledge of shell scripting. Scripting is a way to harness and customize the power of any Unix system, and it's an essential skill for any Unix

users, including system administrators and professional OS X developers. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. bash Cookbook teaches shell scripting the way Unix masters practice the craft. It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell -- the bash shell -- and cygwin or other popular Unix emulation packages. Packed full of useful scripts, along with examples that explain how to create better scripts, this new cookbook gives professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems -- rather than have their systems manage them. Complete, concise, and compact, "The Book of WinZip" demonstrates every major WinZip feature in a step-by-step, task-based fashion. It provides readers with basic information on types of Zip files, installing and upgrading, and working with the WinZip Wizard. This is followed by in-depth coverage of archive creation, modification, and extraction.
Over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL 9.4,9.5 and 9.6About This Book* Create a PostgreSQL cluster that stays online even when disaster strikes* Avoid costly downtime and data loss that can ruin your business* Updated to include the

newest features introduced in PostgreSQL 9.6 with hands-on industry-driven recipesWho This Book Is ForIf you are a PostgreSQL DBA working on Linux systems who want a database that never gives up, this book is for you. If you've ever experienced a database outage, restored from a backup, spent hours trying to repair a malfunctioning cluster, or simply want to guarantee system stability, this book is definitely for you.What you will learn* Protect your data with PostgreSQL replication and management tools such as Slony, Bucardo, pglogical, and WAL-E* Hardware planning to help your database run efficiently* Prepare for catastrophes and prevent them before they happen* Reduce database resource contention with connection pooling using pgpool and PgBouncer* Automate monitoring and alerts to visualize cluster activity using Nagios and collected* Construct a robust software stack that can detect and fix outages* Learn simple PostgreSQL High Availability with Patroni, or dive into the full power of Pacemaker.In DetailDatabases are nothing without the data they store. In the event of a failure - catastrophic or otherwise - immediate recovery is essential. By carefully combining multiple servers, it's even possible to hide the fact a failure occurred at all.From hardware selection to software stacks and horizontal scalability, this book will help you build a versatile PostgreSQL cluster that will survive crashes, resist data corruption, and grow smoothly with customer

demand. It all begins with hardware selection for the skeleton of an efficient PostgreSQL database cluster. Then it's on to preventing downtime as well as troubleshooting some real life problems that administrators commonly face. Next, we add database monitoring to the stack, using collectd, Nagios, and Graphite. And no stack is complete without replication using multiple internal and external tools, including the newly released pglogical extension. Pacemaker or Raft consensus tools are the final piece to grant the cluster the ability to heal itself. We even round off by tackling the complex problem of data scalability.This book exploits many new features introduced in PostgreSQL 9.6 to make the database more efficient and adaptive, and most importantly, keep it running.

Over 150 recipes to help you administer your PostgreSQL database more efficiently About This Book Get to grips with the capabilities of PostgreSQL 9.6 to administer your database more efficiently Monitor, tune, secure and protect your database A step-by-step, recipe-based guide to help you tackle any problem in PostgreSQL administration with ease Who This Book Is For This book is for system administrators, database administrators, data architects, developers, and anyone with an interest in planning for, or running, live production databases. This book is most suited to those who have some technical experience. What You Will Learn Implement PostgreSQL features for performance and reliability

Harness the power of the latest PostgreSQL 9.6 features Manage open source PostgreSQL versions 9.5 and 9.6 on various platforms Discover advanced technical tips for experienced users Explore best practices for planning and designing live databases Select and implement robust backup and recovery techniques Explore concise and clear guidance on replication and high availability See the latest details on Logical Replication and Bi-Directional Replication In Detail PostgreSQL is a powerful opensource database management system; now recognized as the expert's choice for a wide range of applications, it has an enviable reputation for performance and stability. PostgreSQL provides an integrated feature set comprising relational database features, object-relational, text search, Geographical Info Systems, analytical tools for big data and JSON/XML document management. Starting with short and simple recipes, you will soon dive into core features, such as configuration, server control, tables, and data. You will tackle a variety of problems a database administrator usually encounters, from creating tables to managing views, from improving performance to securing your database, and from using monitoring tools to using storage engines. Recipes based on important topics such as high availability, concurrency, replication, backup and recovery, as well as diagnostics and troubleshooting are also given special importance. By the end of this book,

you will have all the knowledge you need to run, manage, and maintain PostgreSQL efficiently. Style and approach This book takes a step-by-step, recipe-based approach, where each recipe focuses on a particular challenge faced by a PostgreSQL administrator while administering his/her database. Explained in a very easy to follow manner, every task is supported with best practices, tips and tricks.

Learn CMake through a series of task-based recipes that provide you with practical, simple, and ready-to-use CMake solutions for your code Key Features Learn to configure, build, test, and package software written in C, C++, and Fortran Progress from simple to advanced tasks with examples tested on Linux, macOS, and Windows Manage code complexity and library dependencies with reusable CMake building blocks Book Description CMake is cross-platform, open-source software for managing the build process in a portable fashion. This book features a collection of recipes and building blocks with tips and techniques for working with CMake, CTest, CPack, and CDash. CMake Cookbook includes real-world examples in the form of recipes that cover different ways to structure, configure, build, and test small- to large-scale code projects. You will learn to use CMake's command-line tools and master modern CMake practices for configuring, building, and testing binaries and libraries. With this book, you will be able to work with external libraries and structure your own projects in a modular and reusable way. You will be well-equipped to generate native build scripts for Linux, MacOS, and Windows, simplify and refactor projects using CMake, and port projects to CMake. What you will learn Configure, build, test, and install code projects using CMake Detect operating

systems, processors, libraries, files, and programs for conditional compilation Increase the portability of your code Refactor a large codebase into modules with the help of CMake Build multi-language projects Know where and how to tweak CMake configuration files written by somebody else Package projects for distribution Port projects to CMake Who this book is for If you are a software developer keen to manage build systems using CMake or would like to understand and modify CMake code written by others, this book is for you. A basic knowledge of C++, C, or Fortran is required to understand the topics covered in this book.

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.The Linux Cookbook covers everything you'd expect: backups, new users, and the like. 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.The knowledge needed to install, deploy, and maintain Linux is not easily found, and no Linux distribution gets it just right. 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. This cookbook's proven techniques distill years of hard-won experience into practical cut-and-paste solutions to everyday Linux dilemmas.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. 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.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.

Containing 101 fun, interesting, and useful ways to get more out of Java, this title targets developers and system architects who have some basic Java knowledge but may not be familiar with the wide range of libraries available.

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Explores the concepts and theory of Flash MX, covering topics including ActionScript, XML, Web data, server-side development, offline multimedia, PHP, MySQL, and QuickTime.

Provides information on using the Xandros 3 version of the Linux operating system, covering such topics as installation, using the Internet, using scanners and printers, downloading software, and using digital cameras.

Details software security issues and describes potential fixes, preventions, and recoveries.

This book is for Makers, Engineers, and anyone who wants to create 3D shapes for 3D printing or manufacturing.OpenSCAD has some great advantages over other software you might choose to use. It's free, runs on Windows, Macs, and Linux machines, has a much shorter learning curve, and it puts you in control of your designs instead of your designs controlling you!Using a fun, recipe-like pattern, this book guides you through simple 3D designs that cover 99% of the operations and techniques used day-to-day with OpenSCAD. You'll be baking and

making in no time at all! Guidance is provided where you might need some of the more obscure features of the language, but the focus is on fast and efficient learning of the core basics.OpenSCAD works in a different way compared to the expensive commercial software packages typically used for 3D design. Instead of interactively choosing from a multitude of obscure, hard to remember icons, buttons, menus, and sub-feature options to sketch out your designs with a mouse, OpenSCAD lets you edit a text-based script that creates your 3D objects. You get the best of both worlds, because you can easily pan, rotate, and zoom to see your creations in space, but the creation of those shapes is much more in your control and understanding.Contents: Getting Started Why Use OpenSCADInstall OpenSCADCheatsheetHow to Learn from this BookRecipe 1: Hello World Meatball! Recipe 2: Create a Square Sheetcake Recipe 3: Parameterization Recipe 4: Create a Circle Recipe 5: Rotation and Translation Recipe 6: Create a Polygon Recipe 7: Trimming the Edges Recipe 8: Stamp Your Name On It Recipe 9: Extruding Into Space Recipe 10: Create a Donut Recipe 11: Kitchen Tips and Tricks Recipe 12: Functions, Modules, and Regular Polygons Recipe 13: No Matter How You Slice It Recipe 14: Create the "Holey" Grail Recipe 15: Birthday Candles & Other Common Cylinders Recipe 16: Ice Cubes for Party Drinks Recipe 17: Polyhedron Souffle Recipe 18: After-Dinner Mints and ToothpicksRecipe 19: Use a Recipe Box Recipe 20: Mirror Mirror on the Plane Recipe 21: Popcorn and Other Hulls Recipe 22: Minkowski Mints Appendix A Using OpenSCADMenusIcons and ButtonsMouse UseCreating STLFilesAnimationIndex About John Clark Craig
Over 75 recipes to help you quickly and efficiently build applications with SwiftAbout This Book* Write robust and efficient code, and avoid common pitfalls using Swift* Get a

comprehensive coverage of the tools and techniques needed to create high-performance apps* Packed with easy-to-follow recipes, this book will help you develop code using the latest version of SwiftWho This Book Is ForIf you are looking for a book to help you learn about the diverse features offered by Swift 3.0 along with tips and tricks to efficiently code and build applications, then this book is for you. Basic knowledge of Swift will be beneficial.What you will learn* Use protocol extensions to provide default behavior for your protocols* Use Swift with multiple programming styles and paradigms* Define flexible classes and structs using Generics* Use OperationQueues to execute and prioritize work* Create higher-order functions that take functions as parameters* Take your work mobile with Playgrounds on iOS* Import your own custom functionality into Swift Playgrounds* Use Swift Package Manager to package your Swift modules for others to useIn DetailSwift is an exciting, general purpose programming language. It's open sourcing and porting to Linux present many opportunities to use Swift outside of iOS and OSX app development. As a result, it's a great time to become a Swift developer!This book begins with Swift Constructs and moves on to Data Wrangling. You will then learn how to use Swift with other languages. Also look at how to perform object-oriented programming, Functional Reactive programming, and Protocol Oriented Programming with Swift. Finally, you will get to grips with server-side Swift, its performance, and responsiveness in Swift.With this recipe-based book, you will look at Swift's merits and benefits by covering the problem and solutions on it. This collection of concise, task-oriented recipes immediately makes you productive with Swift, with solutions ranging from core programming topics such as functions, protocol, error handling, and generics to advanced topics such as memory management and concurrency. Finally, you will learn how to improve code efficiency and

enhance your application's performance.

Whether you're a systems administrator or a home user, you need to understand how Linux internals work before you can really master Linux — how it boots, how networking works, how to customize the kernel, and even what hardware to buy. How Linux Works contains the kind of information normally handed down from wizards—knowledge that comes from years of experience doing things the hard way. But instead of seeking the right incantation to make your system work, you can read How Linux Works to see how to administer Linux and why each particular technique works. This book covers such need-to-know topics as: –How Linux boots, with coverage of boot loaders and init –How networking, interfaces, firewalls, and servers work –How development tools and shared libraries work –How the kernel manages devices, device drivers, and processes, and how to build a custom kernel –How the Linux printing system works, with sections on cups, filters, and Ghostscript –How shell scripts work With its combination of background theory and real-world examples, How Linux Works will show you how to run your system instead of having your system run you.

A series of practical recipes to simplify the Git learning experience and increase your productivity when using Git version control Key Features Explore practical recipes to use Git's most advanced features Learn how Git references its objects and how history is recorded Use reflog and git fsck to recover lost information Book Description Git is one of the most popular tools for versioning. Git Version Control Cookbook builds on the success of the previous edition and provides you with an up-to-date guide to solving problems related to versioning. You'll start by learning about the Git data model and how it stores files and looks at commits. By using simple commands, you'll learn how to navigate through the database. Once you have

accustomed yourself to the basics, you'll explore techniques to configure Git with comprehensive examples and configuration targets. You'll gain insights into improving your understanding of branches and recovery from mistakes -- right from committing to a wrong branch to recovering lost commits or files. You'll then move on to discovering the features that Git rebase has to offer and use regular Git merge on other branches. You'll explore Git notes and learn how to utilize the update, list, and search commands. In addition to this, you'll learn how to extract metadata from repositories and automate your daily tasks using Git hooks. You'll then study in detail repository maintenance, patching, and offline sharing. By the end of the book, you'll have grasped various tips and tricks for everyday usage, while increasing your knowledge of Git providers, integrations, and clients. What you will learn Understand the Git data model and use commands to navigate the database Find out how you can recover lost commits or files Force a rebase on some branches and use regular Git to merge on the rest Master the techniques required to extract metadata from repositories Explore Git notes and learn about the various features that it offers See how to decode different subcommands Who this book is for The Git Version Control Cookbook is for you if you are a developer or Build Release manager looking for a full-fledged practical guide that will take your Git knowledge to the next level. Basic knowledge of GNU tools and shell or bash scripting is needed. Making Linux Work is the perfect desktop reference for the system administrator who has limited experience with Red Hat Linux and/or UNIX-based operating systems in general. Each section of the book begins with a fast-paced, 5-10 page overview of a specific topic that is followed directly by a collection of expertly categorized, thoroughly indexed tips and techniques. Tips are presented in a unique question-and-answer format, allowing even new

Linux users to locate mission-critical information "on demand," drill down to essential details quickly, and make Linux work. Written by a SAIR Linux and GNU Certified Administrator, this invaluable reference contains everything needed to achieve proficiency in system installation; management of files, directories and disks; use and configuration of the Linux X Window System environment; and more! Its unique format is further guaranteed to increase the productivity of beginning through intermediate Red Hat Linux users by eliminating the need to wade through dense prose, extrapolate information from cookbook-style tutorials, struggle through complex tech docs, or engage in time-intensive, trial-and-error experimentation. From Charles M. Kozierok, the creator of the highly regarded www.pcguide.com, comes The TCP/IP Guide. This completely up-to-date, encyclopedic reference on the TCP/IP protocol suite will appeal to newcomers and the seasoned professional alike. Kozierok details the core protocols that make TCP/IP internetworks function and the most important classic TCP/IP applications, integrating IPv6 coverage throughout. Over 350 illustrations and hundreds of tables help to explain the finer points of this complex topic. The book's personal, user-friendly writing style lets readers of all levels understand the dozens of protocols and technologies that run the Internet, with full coverage of PPP, ARP, IP, IPv6, IP NAT, IPSec, Mobile IP, ICMP, RIP, BGP, TCP, UDP, DNS, DHCP, SNMP, FTP, SMTP, NNTP, HTTP, Telnet, and much more. The TCP/IP Guide is a must-have addition to the libraries of internetworking students, educators, networking professionals, and those working toward certification. Harness the power of OpenStack Networking for public and private clouds using 90

hands-on recipes About This Book Build and manage virtual switching, routing, and firewall-based networks in OpenStack using Neutron Develop plugins and drivers for Neutron to enhance the built-in networking capabilities Monitor and automate OpenStack networks using tools like Ceilometer and Heat Who This Book Is For This book is aimed at network and system administrators who want to deploy and manage OpenStack-based cloud and IT infrastructure. If you have basic knowledge of OpenStack and virtualization, this book will help you leverage the rich functionality of OpenStack Networking in your cloud deployments. What You Will Learn Operate OpenStack Networking for public and private clouds Configure advanced routing services for your workloads Secure data traffic using firewall-as-a-service capabilities of OpenStack Discover how to leverage VXLAN to implement SDN in your OpenStack cloud Monitor the virtual networks using Ceilometer Develop plugins to enhance and customize OpenStack Networking Provide HA and VPN connectivity for your virtual machines Troubleshoot and solve common problems with OpenStack Networking In Detail Networking in OpenStack has evolved from Nova Network to Neutron. This has resulted in a rich suite of networking services available to OpenStack users and administrators. Advanced services such as routers, firewall, and load balancers use building blocks such as network and subnets. Recent improvements support powerful customization using plugins. The evolution of Neutron continues as it integrates with tools like Ceilometer and Heat. This book will explore the built-in capabilities of Neutron

to effectively deploy cloud solutions. You will begin with the most fundamental constructs of OpenStack Networking for switching and routing. You will then learn how to provide your tenants with services like firewalls and load-balancers. The step-by-step recipes will help you configure and troubleshoot networking problems in your cloud. This book will also introduce you to advanced topics like Ceilometer, Heat, and other upcoming tools in OpenStack Style and approach The book is full of step-by-step recipes to configure and manage the networking aspects of your OpenStack cloud. In addition to covering basic configuration involved in OpenStack Networking, the books also shares various troubleshooting tips and techniques. As much as possible the book uses OpenStack dashboard (Horizon) to help the user get a feel of real OpenStack Networking

This is a Packt Cookbook, full with over 75 recipes for VMM users to carry out vital tasks quickly and easily.This book is written for solutions architects, technical consultants, administrators, and any other virtualization lover who needs to use Microsoft System Center Virtual Machine Manager in a real world environment.

This newbie's guide to Ubuntu lets readers learn by doing. Using immersion-learning techniques favored by language courses, step-by-step projects build upon earlier tutorial concepts, stimulating the brain and increasing the reader's understanding. It also covers all the topics likely to be of interest to an average desktop user, such as installing new software via Synpatic; Internet connectivity; working with removable

storage devices, printers, and scanners; and handling DVDs, audio files, and even iPods. It also eases readers into the world of commands, thus allowing them to work with Java, Python or other script-based applications; converting RPMs to DEB files; and compiling software from source.

Deploy, manage, and scale virtual instances using Kernel-based Virtual MachinesAbout This Book* Build, manage and scale virtual machines with practical step-by-step examples* Leverage the libvirt user-space tools and libraries to manage the life-cycle of KVM instances* Deploy and scale applications inside KVM virtual machines with OpenStackWho This Book Is ForIf you are a system administrator working KVM virtualization, this book will help you grow on your expertise of working with the infrastructure to manage things in a better way. You should have a knowledge of working with Linux based systems.What You Will Learn* Deploy different workloads in isolation with KVM virtualization and better utilize the available compute resources* Explore the benefits of running applications with KVM and learn to prevent the "bad-neighbor" effect* Leveraging various networking technologies in the context of virtualization with Open vSwitch and the Linux bridge.* Create KVM instances using Python and inspect running KVM instances* Understand Kernel Tuning for enhanced KVM performance and better memory utilizationIn DetailVirtualization technologies such as KVM allow for better control over the available server resources, by deploying multiple virtual instances on the same physical host, or clusters of compute resources.

With KVM it is possible to run various workloads in isolation with the hypervisor layer providing better tenant isolation and higher degree of security.This book will provide a deep dive into deploying KVM virtual machines using qemu and libvirt and will demonstrate practical examples on how to run, scale, monitor, migrate and backup such instances. You will also discover real production ready recipes on deploying KVM instances with OpenStack and how to programatically manage the life cycle of KVM virtual machines using Python. You will learn numerous tips and techniques which will help you deploy & plan the KVM infrastructure. Next, you will be introduced to the working of libvirt libraries and the iPython development environment.Finally, you will be able to tune your Linux kernel for high throughput and better performance. By the end of this book, you will gain all the knowledge needed to be an expert in working with the KVM virtualization infrastructure.Style and approachThis book takes a complete practical approach with many step-by-step example recipes on how to use KVM in production. The book assumes certain level of expertise with Linux systems and virtualization in general. Some knowledge of Python programming is encouraged, to fully take advantage of the code recipes.

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