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The Virtualization Cookbook for IBM z Systems Volume 4: Ubuntu Server 16.04

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MariaDB Essentials

Learning MySQL and MariaDB

Getting Started with MariaDB

*How To Install Mariadb
Galera Cluster On
Ubuntu 16 04*

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GAEL AMINA

The Virtualization Cookbook for IBM z Systems Volume 4: Ubuntu Server

16.04 Packt Publishing Ltd

"With an easy, step-by-step approach, this guide shows beginners how to install, use, and maintain the world's most popular open source database: MySQL. You'll learn through real-world examples and many practical tips, including information on how to improve database performance. Database systems such as MySQL help data handling for organizations large and small handle data, providing robust and efficient access in ways not offered by spreadsheets and other types of data stores. This book is also useful for web developers and programmers interested in adding MySQL to their skill sets. Topics include: Installation and basic administration ; Introduction to databases and SQL ; Functions, subqueries, and other query enhancements ; Improving database performance ; Accessing MySQL from popular languages" --

Toward an Open Source Database

Solution Packt Publishing Ltd

Achieve enterprise automation in your Linux environment with this comprehensive guide
Key Features
 Automate your Linux infrastructure with the help of practical use cases and real-world scenarios
 Learn to plan, build, manage, and customize OS releases in your environment
 Enhance the scalability and efficiency of your infrastructure with advanced Linux system administration concepts
Book Description
 Automation is paramount if you want to run Linux in your enterprise

effectively. It helps you minimize costs by reducing manual operations, ensuring compliance across data centers, and accelerating deployments for your cloud infrastructures. Complete with detailed explanations, practical examples, and self-assessment questions, this book will teach you how to manage your Linux estate and leverage Ansible to achieve effective levels of automation. You'll learn important concepts on standard operating environments that lend themselves to automation, and then build on this knowledge by applying Ansible to achieve standardization throughout your Linux environments. By the end of this Linux automation book, you'll be able to build, deploy, and manage an entire estate of Linux servers with higher reliability and lower overheads than ever before. What you will learn
 Perform large-scale automation of Linux environments in an enterprise
 Overcome the common challenges and pitfalls of extensive automation
 Define the business processes needed to support a large-scale Linux environment
 Get well-versed with the most effective and reliable patch management strategies
 Automate a range of tasks from simple user account changes to complex security policy enforcement
 Learn best practices and procedures to make your Linux environment automatable
 Who this book is for
 This book is for anyone who has a Linux environment to design, implement, and maintain. Open source professionals including infrastructure architects and system administrators will find this book useful. You're expected to have experience in implementing and maintaining Linux servers along with knowledge of building, patching, and maintaining server infrastructure. Although not necessary, knowledge of

Ansible or other automation technologies will be beneficial.

60 Menit Belajar Monitoring Jaringan (Cacti)

No Starch Press

The Cisco expert guide to planning, deploying, and operating virtual routing with the CSR 1000V Cloud Services Router Virtual routing and the Cisco Cloud Services Router (CSR 1000V) are key enablers of today's revolutionary shift to elastic cloud applications and low-cost virtualized networking. Now, there's an authoritative, complete guide to building real solutions with the Cisco CSR 1000V platform. Three leading experts cover every essential building block, present key use cases and configuration examples, illuminate design and deployment scenarios, and show how the CSR 1000V platform and APIs can enable state-of-the-art software-defined networks (SDN). Drawing on extensive early adopter experience, they illuminate crucial OS and hypervisor details, help you overcome migration challenges, and offer practical guidance for monitoring and operations. This guide is an essential resource for all technical professionals planning or deploying data center and enterprise cloud services, and for all cloud network operators utilizing the Cisco CSR 1000V or future Cisco virtual routing platforms. · Review the fundamentals of cloud virtualization, multitenant data-center design, and software-defined networking · Understand the Cisco CSR 1000V's role, features, and infrastructure requirements · Compare server hypervisor technologies for managing VM hardware with CSR 1000V deployments · Understand CSR 1000V software architecture, control and data-plane design, licensing requirements, and packet flow · Walk through common

virtual router scenarios and configurations, including multiple cloud and data center examples · Integrate CSR 1000V into the OpenStack SDN framework, and use its APIs to solve specific problems · Master a best-practice workflow for deploying the CSR 1000V · Use the Cisco management tools to automate, orchestrate, and troubleshoot virtualized routing
Category: Networking/Cloud Computing
Covers: Cloud Services Router This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers

Trino: The Definitive Guide "O'Reilly Media, Inc."

MariaDB CookbookPackt Publishing Ltd
Murach's MySQL Packt Pub Limited

Go beyond simply learning Kubernetes fundamentals and its deployment, and explore more advanced concepts, including serverless computing and service meshes with the latest updates
Key Features Master Kubernetes architecture and design to build and deploy secure distributed applications
Learn advanced concepts like autoscaling, cluster federation, serverless computing, and service mesh integration for observability
Explore Kubernetes 1.18 features and its rich ecosystem of tools like Kubectl, Knative, and Helm
Book Description The third edition of Mastering Kubernetes is updated with the latest tools and code enabling you to learn Kubernetes 1.18's latest features. This book primarily concentrates on diving deeply into complex concepts and Kubernetes best practices to help you master the skills of designing and deploying large clusters

on various cloud platforms. The book trains you to run complex stateful microservices on Kubernetes including advanced features such as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage backend. With the two new chapters, you will gain expertise in serverless computing and utilizing service meshes. As you proceed through the chapters, you will explore different options for network configuration and learn to set up, operate, and troubleshoot Kubernetes networking plugins through real-world use cases. Furthermore, you will understand the mechanisms of custom resource development and its utilization in automation and maintenance workflows. By the end of this Kubernetes book, you will graduate from an intermediate to advanced Kubernetes professional. What you will learn Master the fundamentals of Kubernetes architecture and design Build and run stateful applications and complex microservices on Kubernetes Use tools like Kubectl, secrets, and Helm to manage resources and storage Master Kubernetes Networking with load balancing options like Ingress Achieve high-availability Kubernetes clusters Improve Kubernetes observability with tools like Prometheus, Grafana, and Jaeger Extend Kubernetes working with Kubernetes API, plugins, and webhooks Who this book is for If you are a system administrator or a cloud developer with working knowledge of Kubernetes and are keen to master its advanced features, along with learning everything from building microservices to utilizing service meshes, Mastering Kubernetes is for you. Basic familiarity with networking concepts will be helpful.

MariaDB Cookbook Apress

Summary OpenStack in Action offers the

real world use cases and step-by-step instructions you can take to develop your own cloud platform from from inception to deployment. This book guides you through the design of both the physical hardware cluster and the infrastructure services you'll need to create a custom cloud platform. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology OpenStack is an open source framework that lets you create a private or public cloud platform on your own physical servers. You build custom infrastructure, platform, and software services without the expense and vendor lock-in associated with proprietary cloud platforms like Amazon Web Services and Microsoft Azure. With an OpenStack private cloud, you can get increased security, more control, improved reliability, and lower costs. About the Book OpenStack in Action offers real-world use cases and step-by-step instructions on how to develop your own cloud platform. This book guides you through the design of both the physical hardware cluster and the infrastructure services you'll need. You'll learn how to select and set up virtual and physical servers, how to implement software-defined networking, and technical details of designing, deploying, and operating an OpenStack cloud in your enterprise. You'll also discover how to best tailor your OpenStack deployment for your environment. Finally, you'll learn how your cloud can offer user-facing software and infrastructure services. What's Inside Develop and deploy an enterprise private cloud Private cloud technologies from an IT perspective Organizational impact of self-service cloud computing About the Reader No prior knowledge of

OpenStack or cloud development is assumed. About the Author Cody Bumgardner is the Chief Technology Architect at a large university where he is responsible for the architecture, deployment, and long-term strategy of OpenStack private clouds and other cloud computing initiatives.

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OpenStack in Action Pearson Education

GIMP is a free alternative to Adobe Photoshop with tons of professional-grade features. But with so many powerful tools and menu options, GIMP can be difficult to master. Whether you're struggling to get started or trying to master some of GIMP's more complex features, you'll find the answers you're looking for in *The Book of GIMP*. The tutorials in the first half of the book walk you through essential GIMP skills, like resizing and cropping images, touching up spots and scratches, and customizing your work area. Illustrated, step-by-step instructions show you how to:

- Improve the lighting and composition of images
- Remove distortions and noise to make old and damaged photos look like new
- Create stunning panoramas and digital collages using a series of photos
- Make, edit, and export custom textures, logos,

and animated GIFs

- Work with selections, channels, and masks to edit images like a pro
- Create colorful digital art, layer by layer

The book's second half offers a comprehensive reference to GIMP's many features, including color balancing, masks, filters, and plug-ins. You'll find tools described in unparalleled detail, with coverage of nearly every option and parameter. With illustrated tutorials and detailed references, *The Book of GIMP* is sure to become your one-stop guide to just about everything GIMP.

Packt Publishing Ltd

Stuck with bugs, performance problems, crashes, data corruption, and puzzling output? If you're a database programmer or DBA, they're part of your life. The trick is knowing how to quickly recover from them. This unique, example-packed book shows you how to handle an array of vexing problems when working with MySQL. Written by a principal technical support engineer at Oracle, *MySQL Troubleshooting* provides the background, tools, and expert steps for solving problems from simple to complex—whether data you thought you inserted doesn't turn up in a query, or the entire database is corrupt because of a server failure. With this book in hand, you'll work with more confidence. Understand the source of a problem, even when the solution is simple Handle problems that occur when applications run in multiple threads Debug and fix problems caused by configuration options Discover how operating system tuning can affect your server Use troubleshooting techniques specific to replication issues Get a reference to additional troubleshooting techniques and tools, including third-party solutions Learn best practices for safe and effective troubleshooting—and for

preventing problems

Your one-stop solution to pass the AWS developer's certification

"O'Reilly Media, Inc."

This practical guide provides over 100 self-contained recipes to help you creatively solve issues you may encounter in your AWS cloud endeavors. If you're comfortable with rudimentary scripting and general cloud concepts, this cookbook will give you what you need to both address foundational tasks and create high-level capabilities. AWS Cookbook provides real-world examples that incorporate best practices. Each recipe includes code that you can safely execute in a sandbox AWS account to ensure that it works. From there, you can customize the code to help construct your application or fix your specific existing problem. Recipes also include a discussion that explains the approach and provides context. This cookbook takes you beyond theory, providing the nuts and bolts you need to successfully build on AWS. You'll find recipes for: Organizing multiple accounts for enterprise deployments Locking down S3 buckets Analyzing IAM roles Autoscaling a containerized service Summarizing news articles Standing up a virtual call center Creating a chatbot that can pull answers from a knowledge repository Automating security group rule monitoring, looking for rogue traffic flows And more.

Mastering OpenStack Pearson Education

A practical cookbook, filled with advanced recipes, and plenty of code and commands used for illustration, which will make your learning curve easy and quick. This book is for anyone who wants to learn more about databases in general or MariaDB in particular. Some familiarity with SQL databases is

assumed, but the recipes are approachable to almost anyone with basic database skills.

AWS Cookbook Packt Publishing Ltd

Provides information on Asterisk, an open source telephony application.

The Future of Telephony "O'Reilly Media, Inc."

This IBM® Redpaper publication describes IBM Spectrum® LSF® Suite best practices installation topics, application checks for workload management, and high availability configurations by using theoretical knowledge and hands-on exercises.

These findings are documented by way of sample scenarios. This publication addresses topics for sellers, IT architects, IT specialists, and anyone who wants to implement and manage a high-performing workload management solution with LSF. Moreover, this guide provides documentation to transfer how-to-skills to the technical teams, and solution guidance to the sales team. This publication compliments documentation that is available at IBM Knowledge Center, and aligns with educational materials that are provided by IBM Systems.

OpenStack Cloud Computing

Cookbook Pearson Education

Get a comprehensive overview on how to set up and design an effective database with MySQL. This thoroughly updated edition covers MySQL's latest version, including its most important aspects. Whether you're deploying an environment, troubleshooting an issue, or engaging in disaster recovery, this practical guide provides the insights and tools necessary to take full advantage of this powerful RDBMS. Authors Vinicius Grippa and Sergey Kuzmichev from Percona show developers and DBAs methods for minimizing costs and

maximizing availability and performance. You'll learn how to perform basic and advanced querying, monitoring and troubleshooting, database management and security, backup and recovery, and tuning for improved efficiency. This edition includes new chapters on high availability, load balancing, and using MySQL in the cloud. Get started with MySQL and learn how to use it in production Deploy MySQL databases on bare metal, on virtual machines, and in the cloud Design database infrastructures Code highly efficient queries Monitor and troubleshoot MySQL databases Execute efficient backup and restore operations Optimize database costs in the cloud Understand database concepts, especially those pertaining to MySQL

AWS Certified Developer - Associate Guide "O'Reilly Media, Inc."

Create high availability clusters to enhance system performance using CentOS 7 About This Book Master the concepts of high performance and high availability to eliminate performance bottlenecks Maximize the uptime of services running in a CentOS 7 cluster A step-by-step guide that will provide knowledge of methods and approaches to optimize the performance of CentOS clusters Who This Book Is For This book is targeted at system administrators: those who want a detailed, step-by-step guide to learn how to set up a high-availability CentOS 7 cluster, and those who are looking for a reference book to help them learn or refresh the necessary skills to ensure their systems and respective resources are utilized optimally. No previous knowledge of high-availability systems is needed, though the reader is expected to have at least some degree of familiarity with any

spin-off of the Fedora family of Linux distributions, preferably CentOS. What You Will Learn Install a CentOS 7 cluster and network infrastructure Configure firewall, networking, and clustering services and settings Set up and test a HAC (high-availability cluster) to host an Apache web server and a MariaDB database server Monitor performance and availability Identify bottlenecks and troubleshoot issues Improve performance and ensure high availability In Detail CentOS is the enterprise level Linux OS, which is 100% binary compatible to Red Hat Enterprise Linux (RHEL). It acts as a free alternative to RedHat's commercial Linux offering, with only a change in the branding. A high performance cluster consists in a group of computers that work together as one set parallel, hence minimizing or eliminating the downtime of critical services and enhancing the performance of the application. Starting with the basic principles of clustering, you will learn the necessary steps to install a cluster with two CentOS 7 servers. We will then set up and configure the basic required network infrastructure and clustering services. Further, you will learn how to take a proactive approach to the split-brain issue by configuring the failover and fencing of the cluster as a whole and the quorum of each node individually. Further, we will be setting up HAC and HPC clusters as a web server and a database server. You will also master the art of monitoring performance and availability, identifying bottlenecks, and exploring troubleshooting techniques. At the end of the book, you'll review performance-tuning techniques for the recently installed cluster, test performance using a payload simulation, and learn the necessary skills to ensure that the systems, and the corresponding

resources and services, are being utilized to their best capacity. Style and approach An easy-to-follow and step-by-step guide with hands-on instructions to set up real-world simple cluster scenarios that will start you on the path to building more complex applications on your own.

Over 90 practical and highly applicable recipes to successfully deploy various OpenStack configurations in production About This Book Get a deep understanding of OpenStack's internal structure and services Learn real-world examples on how to build and configure various production grade use cases for each of OpenStack's services Use a step-by-step approach to install and configure OpenStack's services to provide Compute, Storage, and Networking as a services for cloud workloads Who This Book Is For If you have a basic understanding of Linux and Cloud computing and want to learn about configurations that OpenStack supports, this is the book for you. Knowledge of virtualization and managing Linux environments is expected. Prior knowledge or experience of OpenStack is not required, although beneficial.

What You Will Learn Plan an installation of OpenStack with a basic configuration Deploy OpenStack in a highly available configuration Configure Keystone Identity services with multiple types of identity backends Configure Glance Image Store with File, NFS, Swift, or Ceph image backends and use local image caching Design Cinder to use a single storage provider such as LVM, Ceph, and NFS backends, or to use multiple storage backends simultaneously Manage and configure the OpenStack networking backend

Configure OpenStack's compute hypervisor and the instance scheduling mechanism Build and customize the OpenStack dashboard In Detail OpenStack is the most popular open source cloud platform used by organizations building internal private clouds and by public cloud providers. OpenStack is designed in a fully distributed architecture to provide Infrastructure as a Service, allowing us to maintain a massively scalable cloud infrastructure. OpenStack is developed by a vibrant community of open source developers who come from the largest software companies in the world. The book provides a comprehensive and practical guide to the multiple uses cases and configurations that OpenStack supports. This book simplifies the learning process by guiding you through how to install OpenStack in a single controller configuration. The book goes deeper into deploying OpenStack in a highly available configuration. You'll then configure Keystone Identity Services using LDAP, Active Directory, or the MySQL identity provider and configure a caching layer and SSL. After that, you will configure storage back-end providers for Glance and Cinder, which will include Ceph, NFS, Swift, and local storage. Then you will configure the Neutron networking service with provider network VLANs, and tenant network VXLAN and GRE. Also, you will configure Nova's Hypervisor with KVM, and QEMU emulation, and you will configure Nova's scheduler filters and weights. Finally, you will configure Horizon to use Apache HTTPD and SSL, and you will customize the dashboard's appearance. Style and approach This book consists of clear, concise instructions coupled with practical and applicable recipes that will enable you to

use and implement the latest features of OpenStack.

MySQL Troubleshooting Packt Publishing Ltd

A practical, hands-on, beginner-friendly guide to installing and using MariaDB. Getting Started with MariaDB is for anyone who wants to learn more about databases in general or MariaDB in particular. No prior database experience is required. It is assumed that you have basic knowledge of software installation, editing files with a text editor, and using the command line and terminal.

OpenStack Administration with Ansible
IBM Redbooks

Master the art of making Docker more extensible, composable, and modular by leveraging plugins and other supporting tools About This Book Get the first book on the market that shows you how to extend the capabilities of Docker using plugins and third-party tools Master the skills of creating various plugins and integrating great tools in order to enhance the functionalities of Docker A practical and learning guide that ensures your investment in Docker becomes more valuable Who This Book Is For This book is for developers and sys admins who are well versed Docker and have knowledge on basic programming languages. If you can't wait to extend Docker and customize it to meet your requirements, this is the book for you! What You Will Learn Find out about Docker plugins and the problems they solve Gain insights into creating your own plugin Use Docker tools to extend the basic functionality of the core Docker engine Get to grips with the installation and configuration of third-party tools available to use with Docker plugins Install, configure, and use a scheduling service to manage the containers in your

environment Enhance your day-to-day Docker usage through security, troubleshooting, and best practices In Detail With Docker, it is possible to get a lot of apps running on the same old servers, making it very easy to package and ship programs. The ability to extend Docker using plugins and load third-party plugins is incredible, and organizations can massively benefit from it. In this book, you will read about what first and third party tools are available to extend the functionality of your existing Docker installation and how to approach your next Docker infrastructure deployment. We will show you how to work with Docker plugins, install it, and cover its lifecycle. We also cover network and volume plugins, and you will find out how to build your own plugin. You'll discover how to integrate it with Puppet, Ansible, Jenkins, Flocker, Rancher, Packer, and more with third-party plugins. Then, you'll see how to use Schedulers such as Kubernetes and Amazon ECS. Finally, we'll delve into security, troubleshooting, and best practices when extending Docker. By the end of this book, you will learn how to extend Docker and customize it based on your business requirements with the help of various tools and plugins. Style and approach An easy to follow guide with plenty of hands-on practical examples which can be executed both on your local machine or externally hosted services.

Deploying a Database Instance in an IBM Cloud Private Cluster on IBM Z
IBM Redbooks

Discover your complete guide to designing, deploying, and managing OpenStack-based clouds in mid-to-large IT infrastructures with best practices, expert understanding, and more About This Book Design and deploy an

Python for Kids Packt Publishing Ltd
An effective guide to becoming an AWS Certified Developer About This Book This fast-paced guide will help you clear the exam with confidence Learn to design, develop, and deploy cloud-based solutions using AWS Enhance your AWS skills with practice questions and mock tests Who This Book Is For This book is for IT professionals and developers looking to clear the AWS Certified Developer - Associate 2017 exam. Developers looking to develop and manage their applications on the AWS platform will also find this book useful. No prior AWS experience is needed. What You Will Learn Create and manage users, groups, and permissions using AWS Identity and Access Management services Create a secured Virtual Private Cloud (VPC) with Public and Private Subnets, Network Access Control, and Security groups Get started with Elastic Compute Cloud (EC2), launching your first EC2 instance, and working with it Handle application traffic with Elastic Load Balancing (ELB) and monitor AWS resources with CloudWatch Work with AWS storage services such as Simple Storage Service (S3), Glacier, and CloudFront Get acquainted with AWS DynamoDB - a NoSQL database service Coordinate work across distributed application components using Simple

Workflow Service (SWF) In Detail AWS Certified Developer - Associate Guide starts with a quick introduction to AWS and the prerequisites to get you started. Then, this book gives you a fair understanding of core AWS services and basic architecture. Next, this book will describe about getting familiar with Identity and Access Management (IAM) along with Virtual private cloud (VPC). Moving ahead you will learn about Elastic Compute cloud (EC2) and handling application traffic with Elastic Load Balancing (ELB). Going ahead you we will talk about Monitoring with CloudWatch, Simple storage service (S3) and Glacier and CloudFront along with other AWS storage options. Next we will take you through AWS DynamoDB - A NoSQL Database Service, Amazon Simple Queue Service (SQS) and CloudFormation Overview. Finally, this book covers understanding Elastic Beanstalk and overview of AWS lambda. At the end of this book, we will cover enough topics, tips and tricks along with mock tests for you to be able to pass the AWS Certified Developer - Associate exam and develop as well as manage your applications on the AWS platform. Style and approach This step-by-step guide includes exercises and mock tests to clear the AWS certification exam and become a successful AWS developer.