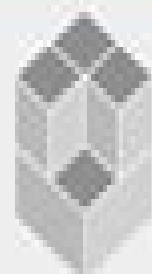Your Applications

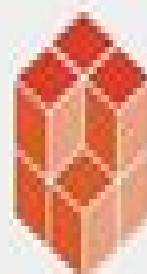OPENSTACK

CLOUD OPERATING SYSTEM

APIs

OpenStack Dashboard

Compute

Networking

Storage

OpenStack Shared Services

Standard Hardware

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Amit P. Acharya,Tom Bal,Chris Clark,Addison Goering,David Graesser,Angelo Littera,Marcelo Manhaes,Gregory Scott,IBM Redbooks

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Service-Oriented Computing - ICSOC 2014 Workshops Farouk Toumani,Barbara Pernici,Daniela Grigori,Djamal Benslimane,Jan Mendling,Nejib Ben Hadj-Alouane,Brian Blake,Olivier Perrin,Iman Saleh Moustafa,Sami Bhiri,2015-09-01 This book constitutes the revised selected papers of the 12th International Conference on Service Oriented Computing ICSOC 2014 held in Paris France in November 2014 The conference hosted the following seven workshops 10th International Workshop in Engineering Service Oriented Applications WESOA 2014 First Workshop on Resource Management in Service Oriented Computing RMSOC 2014 First International Workshop on Knowledge Aware Service Oriented Applications Performance Assessment and Auditing in Service Computing KASA 2014 Workshop on Intelligent Service Clouds ISC 2014 Third International Workshop on Self Managing Pervasive Service Systems SeMaPS 2014 First International Workshop on Formal Modeling and Verification of Service Based Systems FOR MOVES 2014 4th International Workshop on Cloud Computing and Scientific Applications CCSA 2014 The papers included in this volume were carefully reviewed and selected from numerous submissions They address various topics in the service oriented computing domain and its emerging applications   **Proceedings of the Fourth HPI Cloud Symposium "Operating the Cloud" 2016** Klauck, Stefan ,Maschler, Fabian ,Tausche, Karsten ,2017-09-15 Every year the Hasso Plattner Institute HPI invites guests from industry and academia to a collaborative scientific workshop on the topic Every year the Hasso Plattner Institute HPI invites guests from industry and academia to a collaborative scientific workshop on the topic Operating the Cloud Our goal is to provide a forum for the exchange of knowledge and experience between industry and academia Co located with the event is the HPI s Future SOC Lab day which offers an additional attractive and conducive environment for scientific and industry related discussions Operating the Cloud aims to be a platform for productive interactions of innovative ideas visions and upcoming technologies in the field of cloud operation and administration On the occasion of this symposium we called for submissions of research papers and practitioner s reports A compilation of the research papers realized during the fourth HPI cloud symposium Operating the Cloud 2016 are published in this proceedings We thank the authors for exciting presentations and insights into their current work and research Moreover we look forward to more interesting submissions for the upcoming symposium later in the year Every year the Hasso Plattner Institute HPI invites guests from industry and academia to a collaborative scientific workshop on the topic Operating the Cloud Our goal is to provide a forum for the exchange of knowledge and experience between industry and academia Co located with the event is the HPI s Future SOC Lab day which offers an additional attractive and conducive environment for scientific and industry related discussions Operating the Cloud aims to be a platform for productive interactions of innovative ideas visions and upcoming technologies in the field of cloud operation and administration   **Ubuntu 24.04 LTS Server** Richard Petersen,2025-03-07 This book is designed as an Ubuntu 24 04 LTS Server administration and reference source covering the Ubuntu servers and their support applications

Server tools are covered as well as the underlying configuration files and system implementations The emphasis is on what administrators will need to know to perform key server support and management tasks Coverage of the systemd service management system is integrated into the book Topics covered include software management systemd service management systemd networkd Netplan network configuration and Ubuntu cloud services Key servers are examined including Web FTP CUPS printing NFS and Samba Windows shares Network support servers and applications covered include the Squid proxy server the Domain Name System BIND server DHCP distributed network file systems nftables firewalls and cloud computing The book is organized into five parts getting started services shared resources network support and shells Part 1 focuses on basic tasks such as installing the Ubuntu Live Server configuring networking with Netplan systemd networkd and NetworkManager managing software from the Ubuntu Snap and APT repositories and basic usage for the desktop and the command line interfaces Part 2 examines Internet servers as well as how services are managed by systemd using unit files Configuration and implementation of the Postfix mail server the vsftpd FTP server the Apache Web server as well as news and database servers are covered in detail Part 3 deals with servers that provide shared resources on a local network or the Internet Services examined include the CUPS printing server NFS Linux network file server and Samba Windows file and printing server clustering and cloud computing services supported by Ubuntu Part 4 covers servers that provide network support like the Squid proxy server the Bind Domain Name System DNS server DHCP servers and the nftables firewall along with the configuration firewall tools FirewallD and UFW IPtables is included for reference Key networking operations are also examined like IPv6 auto configuration TPC IP networking and network monitoring tools Part 5 provides a review of shell commands including those used for managing files as well as shell scripts variables and configuration files Be advised that for the servers there are very few changes from Ubuntu 22 04 but many changes for the desktop   Establishing a Secure Hybrid Cloud with the IBM PureApplication Family Amit P. Acharya,Tom Bal,Chris Clark,Addison Goering,David Graesser,Angelo Littera,Marcelo Manhaes,Gregory Scott,IBM Redbooks,2016-02-08 This IBM Redbooks publication takes you on a hybrid cloud journey with IBM PureApplication System and PureApplication Service from the what over the why and to the how We outline the needs for a hybrid PureApplication cloud and we describe how to build a strategy We provide advice about the components including security Through use cases we define the need and the strategy for a hybrid cloud implementation with IBM PureApplication System Software or Service The target audience for this book varies from anyone who is interested in learning more about a true hybrid cloud solution from IBM to strategists IT architects and IT specialists who want an overview of what is required to build a hybrid cloud with IBM PureApplication family members   **Cloud Security Guidelines for IBM Power Systems** Turgut Aslan,Peter G. Croes,Liviu Rosca,Max Stern,IBM Redbooks,2016-03-09 This IBM Redbooks publication is a comprehensive guide that covers cloud security considerations for IBM Power SystemsTM The first objectives of this book are to examine how Power Systems can fit into the current and

developing cloud computing landscape and to outline the proven Cloud Computing Reference Architecture CCRA that IBM employs in building private and hybrid cloud environments The book then looks more closely at the underlying technology and hones in on the security aspects for the following subsystems IBM Hardware Management Console IBM PowerVM IBM PowerKVM IBM PowerVC IBM Cloud Manager with OpenStack IBM Bluemix This publication is for professionals who are involved in security design with regard to planning and deploying cloud infrastructures using IBM Power Systems **SUSE OpenStack Cloud 7** Suse Llc,2017-08-04 As an OpenStack cloud end user you can provision your own resources within the limits set by cloud administrators The examples in this guide show you how to perform tasks by using the following methods OpenStack dashboard Use this web based graphical interface code named horizon to view create and manage resources OpenStack command line clients Each core OpenStack project has a command line client that you can use to run simple commands to view create and manage resources in a cloud and automate tasks by using scripts You can modify these examples for your specific use cases Many chapters in this manual contain links to additional documentation resources These include additional documentation that is available on the system and documentation available on the Internet This book is available for free in many languages and different formats on the suse com web site This book is printed in grayscale

Introduction to Middleware Letha Hughes Etzkorn,2017-06-12 A stereotype of computer science textbooks is that they are dry boring and sometimes even intimidating As a result they turn students interests off from the subject matter instead of enticing them into it This textbook is the opposite of such a stereotype The author presents the subject matter in a refreshing story telling style and aims to bring the Internet generation of students closer to her stories Yingcai Xiao The University of Akron Introduction to Middleware Web Services Object Components and Cloud Computing provides a comparison of different middleware technologies and the overarching middleware concepts they are based on The various major paradigms of middleware are introduced and their pros and cons are discussed This includes modern cloud interfaces including the utility of Service Oriented Architectures The text discusses pros and cons of RESTful vs non RESTful web services and also compares these to older but still heavily used distributed object component middleware The text guides readers to select an appropriate middleware technology to use for any given task and to learn new middleware technologies as they appear over time without being greatly overwhelmed by any new concept The book begins with an introduction to different distributed computing paradigms and a review of the different kinds of architectures architectural styles patterns and properties that various researchers have used in the past to examine distributed applications and determine the quality of distributed applications Then it includes appropriate background material in networking and the web security and encoding necessary to understand detailed discussion in this area The major middleware paradigms are compared and a comparison methodology is developed Readers will learn how to select a paradigm and technology for a particular task after reading this text Detailed middleware technology review sections allow students or industry practitioners working to expand their knowledge to

achieve practical skills based on real projects so as to become well functional in that technology in industry Major technologies examined include RESTful web services RESTful cloud interfaces such as OpenStack AWS EC2 interface CloudStack AJAX JAX RS ASP NET MVC and ASP NET Core non RESTful SOAP and WSDL based web services JAX WS Windows Communication Foundation distributed objects components Enterprise Java Beans NET Remoting CORBA The book presents two projects that can be used to illustrate the practical use of middleware and provides implementations of these projects over different technologies This versatile and class tested textbook is suitable depending on chapters selected for undergraduate or first year graduate courses on client server architectures middleware and cloud computing web services and web programming   **OpenStack Operations Guide** Tom Fifield,Diane Fleming,Anne Gentle,Lorin Hochstein,Jonathan Proulx,Everett Toews,Joe Topjian,2014-04-24 Design deploy and maintain your own private or public Infrastructure as a Service IaaS using the open source OpenStack platform In this practical guide experienced developers and OpenStack contributors show you how to build clouds based on reference architectures as well as how to perform daily administration tasks Designed for horizontal scalability OpenStack lets you build a cloud by integrating several technologies This approach provides flexibility but knowing which options to use can be bewildering Once you complete this book you ll know the right questions to ask while you organize compute storage and networking resources If you already know how to manage multiple Ubuntu machines and maintain MySQL you re ready to Set up automated deployment and configuration Design a single node cloud controller Use metrics to improve scalability Explore compute nodes network design and storage Install OpenStack packages Use an example architecture to help simplify decision making Build a working environment to explore an IaaS cloud Manage users projects and quotas Tackle maintenance debugging and network troubleshooting Monitor log backup and restore   **Architecting and Operating OpenShift Clusters** William Caban,2019-09-06 Design and architect resilient OpenShift clusters and gain a keen understanding of how hundreds of projects are integrated into a powerful solution While there are many OpenShift resources available for developers this book focuses on the key elements of infrastructure and operations that teams need when looking to integrate and maintain this platform You ll review important concepts such as repeatable deployment techniques advanced OpenShift RBAC capabilities monitoring clusters and integrating with external services You ll also see how to run specialized workloads in OpenShift and how to deploy non web based applications on the platform all designed to help cultivate best practices as your organization continue evolve in microservices architectures OpenShift has become the main enterprise Kubernetes distribution and its market penetration continues to growth at rapid rate While OpenShift s documentation provides a great list of configurationoptions to work with the platform it can be a daunting task to wade through Architecting and Operating OpenShift Clusters breaks this content down into clear and useful concepts to provide you with a solid understanding of the OpenShift internal architecture What You ll Learn Operate high availability in muti tenant OCP clusters Understand OpenShift SDN models capabilities and storage classes Integrate OCP

with existing data center capabilities and CI CD pipelines Support advanced capabilities like Istio Multus Kubernetes Operators hybrid deployments Who This Book Is For Cloud architects OpenShift cluster administrators and teams supporting developers in OpenShift environments who have a basic understanding of this platform and microservices architectures

OpenStack Administrators' Guide Vladimir Sigunov,Boris Molodyi,2015-07-25 The OpenStack Administrator s Guide describes chief principles and methods for deploying maintaining and administering an OpenStack based private cloud This guide consists of a sequence of screenshots and step by step instructions that will be very useful to systems administrators and IT engineers who are planning to install and setup their private cloud on premises All of the examples in this book are taken from a real world OpenStack deployment and can be reproduced in any lab or real world deployment based on the OpenStack Juno release   Certified OpenStack Administrator Study Guide Andrey Markelov,2022 Gain a better understanding of how to work with the modern OpenStack IaaS Cloud platform This updated book is designed to help you pass the latest Yoga version of the Certified OpenStack Administrator COA exam from the Open Infrastructure Foundation OpenStack is a cloud operating system that controls large pools of computer storage and networking resources throughout a datacenter All exercises have been updated and re written for the current version of the exam using the modern CLI tool This book covers 100% of the exam requirements and each topic is taught using practical exercises and instructions for the command line and for the Horizon dashboard All chapters are followed by review questions and answers Even after you have taken and passed the COA exam this book will remain a useful reference to come back to time after time You will Understand the components that make up the Cloud Install OpenStack distribution from Red Hat Canonical or community versions Run OpenStack in a virtual test environment Understand where to find information for to further work with OpenStack

Certified OpenStack Administrator Study Guide Andrey Markelov,2016-11-04 Teaches you how and what to study in order to be best prepared for the Certified OpenStack Administrator exam This fast growing technology is creating a market that needs more qualified IT specialists with proven skills This book covers 100% of the exam requirements for both The OpenStack Foundation and the Mirantis OpenStack Certification Exam Each theme is taught using practical exercises and instructions for the command line and for the graphical client Horizon Each chapter is followed by review questions complete with answers Even after you have taken and passed your OpenStack exam this book will remain a useful reference What You Will Learn Understand the components that make up the cloud Install and make an OpenStack distribution from Mirantis Red Hat or another community version Work with OpenStack Identity Management Dashboard CLI Object Storage Block Storage Networking Telemetry Orchestration and Image Services Learn how to troubleshoot all the main OpenStack services Understand where to find information for future work with OpenStack Who This Book Is For Certified OpenStack Administrator Study Guide is for Cloud and Linux engineers looking for a better understanding of how to work with the modern OpenStack IaaS Cloud and wants to prove their knowledge by passing a Certified OpenStack Administrator Exam

SUSE OpenStack Cloud 7 Suse Llc,Frank Sundermeyer,Tanja Roth,2017-08-04 The SUSE OpenStack Cloud 7 Deployment Guide provides cloud operators with the information needed to deploy and maintain SUSE OpenStack Cloud administrative units the Administration Server the Control Nodes and the Compute and Storage Nodes The Administration Server provides all services needed to manage and deploy all other nodes in the cloud The Control Node hosts all OpenStack components needed to operate virtual machines deployed on the Compute Nodes in the SUSE OpenStack Cloud Each virtual machine instance started in the cloud will be hosted on one of the Compute Nodes Object storage is managed by the Storage Nodes Many chapters in this manual contain links to additional documentation resources These include additional documentation that is available on the system and documentation available on the Internet This book is available for free in many languages and different formats on the suse com web site This book is printed in grayscale   Openstack Operations Guide ,2014   *Preparing for the Certified OpenStack Administrator Exam* Matt Dorn,2017-08-24 Master the objectives required to pass the Certified OpenStack Administrator exam About This Book Focuses on providing a clear concise strategy so you gain the specific skills required to pass the Certified OpenStack Administrator exam Includes exercises and performance based tasks to ensure all exam objectives can be completed via the Horizon dashboard and command line interface Includes a free OpenStack Virtual Appliance to practice the objectives covered throughout the book Includes a practice exam to put your OpenStack skills to the test to prove you have what it takes to conquer the live exam Updated for the 2017 exam featuring OpenStack Newton Who This Book Is For This book is for IT professionals system administrators DevOps engineers and software developers with basic Linux command line and networking knowledge It s also a great guide for those interested in an entry level OpenStack position but have limited real world OpenStack experience After passing the exam Certified OpenStack Administrators will prove they have the required skills for the job What You Will Learn Manage the Keystone identity service by creating and modifying domains groups projects users roles services endpoints and quotas Upload Glance images launch new Nova instances and create flavors key pairs and snapshots Discover Neutron tenant and provider networks security groups routers and floating IPs Manage the Cinder block storage service by creating volumes and attaching them to instances Create Swift containers and set access control lists to allow read write access to your objects Explore Heat orchestration templates and create list and update stacks In Detail This book provides you with a specific strategy to pass the OpenStack Foundation s first professional certification the Certified OpenStack Administrator In a recent survey 78% of respondents said the OpenStack skills shortage had deterred them from adopting OpenStack Consider this an opportunity to increase employer and customer confidence by proving you have the skills required to administrate real world OpenStack clouds You will begin your journey by getting well versed with the OpenStack environment understanding the benefits of taking the exam and installing an included OpenStack all in one virtual appliance so you can work through objectives covered throughout the book After exploring the basics of the individual services you will be introduced to

strategies to accomplish the exam objectives relevant to Keystone Glance Nova Neutron Cinder Swift Heat and troubleshooting Finally you ll benefit from the special tips section and a practice exam to put your knowledge to the test By the end of the journey you will be ready to become a Certified OpenStack Administrator Style and approach Clear concise and straightforward with supporting diagrams and lab environment tutorials this book will help you confidently pass Certified OpenStack Administrator objectives on the Horizon dashboard and command line interface   **OpenStack Cloud Application Development** Scott Adkins,John Belamaric,Vincent Giersch,Denys Makogon,Jason E. Robinson,2015-11-13 Leverage the power of OpenStack to develop scalable applications with no vendor lock in OpenStack Cloud Application Development is a fast paced professional book for OpenStack developers delivering comprehensive guidance without wasting time on development fundamentals Written by experts in the OpenStack community from Infoblox Gigaspaces GoDaddy and Comcast this book shows you how to work effectively and efficiently within the OpenStack platform to develop large scalable applications without worrying about underlying hardware Follow along with an OpenStack build that illustrates how and where each technology comes into play as you learn expert tips and best practices that make your product stronger Coverage includes OpenStack service primitives networking within the OpenStack Ecosystem deployment of Virtualized Network Functions for Enterprises containers data protection and much more If you need to get on board quickly this professional book is your ideal roadmap to OpenStack development Understand all aspects of OpenStack technologies Follow an example build to drill down into critical elements Learn the OpenStack best practices and insider tips Leverage the full capability of IaaS at a professional pace OpenStack is supported by dozens of major technology companies compatible with Amazon Web Services and can be used alongside or on top of VMWare vSphere and other similar technologies It frees developers from the confines of hardware and vendor lock in while providing a reliable fast and easy platform for developing scalable cloud applications OpenStack Cloud Application Development is an expert led guide to getting the most out of OpenStack designed specifically for the professional developer   **OpenStack Administration with Ansible** Walter Bentley,2016-01-28 Design build and automate 10 real world OpenStack administrative tasks with Ansible About This Book Automate real world OpenStack cloud operator administrative tasks Construct a collection of automation code to save time on managing your OpenStack cloud Use this step by step tutorial to automate such tasks with Ansible Who This Book Is For If you are an OpenStack based cloud operator and or infrastructure administrator and are interested in automating administrative functions then this book is exactly what you are looking for Having a functioning OpenStack environment is helpful but most certainly not necessary What You Will Learn Efficiently execute OpenStack administrative tasks Familiarize yourself with how Ansible works and assess the defined best practices Create Ansible playbooks and roles Automate tasks to customize your OpenStack cloud Review OpenStack automation considerations when automating administrative tasks Examine and automate advanced OpenStack tasks and designated use cases Get a high level overview of OpenStack and the current

production ready projects Deep dive into OpenStack CLI tools and find out how to use them In Detail Most organizations are seeking methods to improve business agility because they have realized just having a cloud is not enough Being able to improve application deployments reduce infrastructure downtime and eliminate daily manual tasks can only be accomplished through some sort of automation Packed with real world OpenStack administrative tasks this book will walk you through working examples and explain how these tasks can be automated using one of the most popular open source automation tools Ansible We will start with a brief overview of OpenStack and Ansible and highlight some best practices Each chapter will provide an introduction to handling various Cloud Operator administration tasks such as creating multiple users tenants setting up Multi Tenant Isolation customizing your clouds quotas taking instance snapshots evacuating compute hosts for maintenance and running cloud health checks and a step by step tutorial on how to automate these tasks with Ansible Style and approach This easy to follow reference guide is packed with examples of real world OpenStack administration tasks each task is explained in detail and then subsequently turned into automation code *OpenStack Operations Guide* Adam Hyde,Tom Fifield,Diane Fleming,Anne Gentle,Lorin Hochstein,Jonathan Proulx,Everett Toews,Joe Topjian,2013

OpenStack Administration with Ansible 2 Walter Bentley,2016-12-26 Orchestrate and automate your OpenStack cloud operator tasks with Ansible 2 0 About This Book Automate real world OpenStack cloud operator administrative tasks Construct a collection of the latest automation code to save time on managing your OpenStack cloud Manage containers on your cloud and check the health of your cloud using Nagios Who This Book Is For This book is aimed at OpenStack based cloud operators and infrastructure and sys administrators who have some knowledge of OpenStack and are seeking to automate taxing and manual tasks This book is also for people new to automating cloud operations in general and the DevOps practice in particular What You Will Learn Efficiently execute OpenStack administrative tasks Familiarize yourself with how Ansible 2 works and assess the defined best practices Create Ansible 2 playbooks and roles Automate tasks to customize your OpenStack cloud Review OpenStack automation considerations when automating administrative tasks Examine and automate advanced OpenStack tasks and designated use cases Get a high level overview of OpenStack and current production ready projects Explore OpenStack CLI tools and learn how to use them In Detail Most organizations are seeking methods to improve business agility because they have realized just having a cloud is not enough Being able to improve application deployments reduce infrastructure downtime and eliminate daily manual tasks can only be accomplished through some sort of automation We start with a brief overview of OpenStack and Ansible 2 and highlight some best practices Each chapter will provide an introduction to handling various Cloud Operator administration tasks such as managing containers within your cloud setting up utilizing open source packages for monitoring creating multiple users tenants taking instance snapshots and customizing your cloud to run multiple active regions Each chapter will also supply a step by step tutorial on how to automate these tasks with Ansible 2 Packed with real world OpenStack administrative tasks

this book will walk you through working examples and explain how these tasks can be automated using one of the most popular open source automation tools on the market today Style and approach This book is a concise fast paced guide filled with real world scenarios that will execute OpenStack administrative tasks efficiently It serves as a quick reference guide for not just OpenStack functions but also for creating future Ansible code   Suse Openstack Cloud 6 - End User Guide Openstack Contributors,2016-04-28 End user who launches and manages instances can create snapshots and use volumes for persistent storage within SUSE OpenStack Cloud This comprehensive end user guide contains detailed information about the user s tasks and how to solve them

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