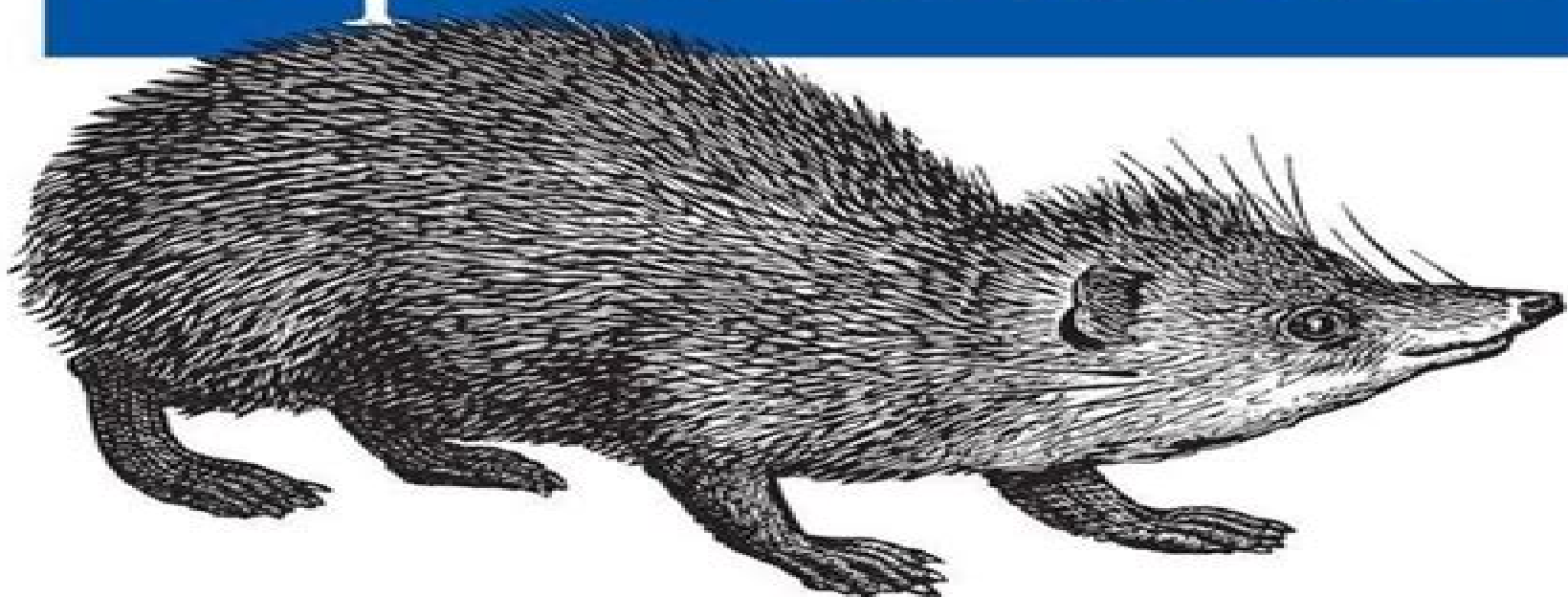


Creating Open Source Clouds

Deploying

OpenStack



O'REILLY®

Ken Pepple

Deploying Openstack Ken Pepple

Michael Solberg



Deploying Openstack Ken Pepple:

Deploying OpenStack Ken Pepple, 2011-07-25 OpenStack was created with the audacious goal of being the ubiquitous software choice for building public and private cloud infrastructures. In just over a year it's become the most talked about project in open source. This concise book introduces OpenStack's general design and primary software components in detail and shows you how to start using it to build cloud infrastructures. If you're a developer, technologist, or system administrator familiar with cloud offerings such as Rackspace Cloud or Amazon Web Services, *Deploying OpenStack* shows you how to obtain and deploy OpenStack software in a few controlled scenarios. Learn about OpenStack Compute (known as Nova), OpenStack Object Store (Swift), and OpenStack Image Service (Glance). Understand common pitfalls in architecting, deploying, and implementing your cloud infrastructure with OpenStack. Determine which version of the OpenStack code base best suits your deployment needs. Define your deployment scenario and finalize key design choices. Install Nova on a single node with either the StackOps distro or an Ubuntu package. Be familiar with important configuration options and important administrative commands.

Fuzzy Systems, Knowledge Discovery and Natural Computation Symposium Liangshan Shao, Jinguang Sun, Xiaowei Hui, 2013-11-20 The Fuzzy Systems Knowledge Discovery and Natural Computation Symposium FSKDNC 2013 was successfully held from 24 to 25 July 2013 in Shenyang, China. The Symposium was a platform for authors to present their recent development on fuzzy systems, knowledge discovery, and natural computation, i.e., intelligent techniques inspired from nature such as neural networks, genetic algorithms, and particle swarm optimization. The Symposium attracted numerous submissions from around the globe. Each submitted paper was rigorously reviewed by the program committee and additional reviewers based on originality, significance, and quality of the research, clarity of the presentation, and relevance to the Symposium theme. 60 papers are included in the Symposium proceedings after the review process. The great efforts of the authors, the Organizing Committee members, the Program Committee members, and the additional reviewers are acknowledged here. The Symposium would not have been possible without the support from Liaoning Technical University. The professional and courteous staff from DEStech Publications Inc. also deserves special credits.

Software Defined Systems Deze Zeng, Lin Gu, Shengli Pan, Song Guo, 2019-11-25 This book introduces the software defined system concept, architecture, and its enabling technologies such as software defined sensor networks (SDSN), software defined radio (SDR), cloud fog radio access networks (CF-RAN), software defined networking (SDN), network function virtualization (NFV), software defined storage (SDS), virtualization, and Docker. The authors also discuss the resource allocation and task scheduling in software defined system, mainly focusing on sensing, communication, networking, and computation. Related case studies on SDSN, CF-RAN, SDN, NFV are included in this book, and the authors discuss how these technologies cooperate with each other to enable cross resource management and task scheduling in software defined system. Novel resource allocation and task scheduling algorithms are introduced and evaluated. This book targets researchers, computer scientists, and engineers who are interested

in the information system softwarization technologies resource allocation and optimization algorithm design performance evaluation and analysis next generation communication and networking technologies edge computing cloud computing and IoT Advanced level students studying these topics will benefit from this book as well **IBM Software Defined**

Environment Dino Quintero, William M Genovese, KiWoon Kim, Ming Jun MJ Li, Fabio Martins, Ashish Nainwal, Dusan Smolej, Marcin Tabinowski, Ashu Tiwary, IBM Redbooks, 2015-08-14 This IBM Redbooks publication introduces the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today s environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands This information is intended for IBM sales representatives IBM software architects IBM Systems Technology Group brand specialists distributors resellers and anyone who is developing or implementing SDE **CCNA Data Center DCICT 200-155 Official Cert Guide** Navaid Shamsee, David Klebanov, Hesham Fayed, Ahmed Afrose, Ozden Karakok, 2017-02-09 CCNA Data Center DCICT 200 155 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self study resource approved by Cisco A team of leading Cisco data center experts shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This is the eBook edition of the CCNA Data Center DCICT 200 155 Official Cert Guide This eBook does not include the access code for the practice exam that comes with the print edition This complete official study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Part ending exercises which help you drill on key concepts you must know thoroughly Study plan suggestions and templates to help you organize and optimize your study time A final preparation chapter that guides you through tools and resources to help you craft your review and test taking strategies Well regarded for its level of detail study plans assessment features and challenging review questions and exercises this official study guide helps you master the concepts and techniques that ensure your exam success The official study guide helps you master topics on the CCNA Data Center DCICT 200 155 exam

Essentials of Cloud Computing K. Chandrasekaran, 2014-12-05 Cloud computing accessing computing resources over

the Internet is rapidly changing the landscape of information technology Its primary benefits compared to on premise computing models are reduced costs and increased agility and scalability Hence cloud computing is receiving considerable interest among several stakeholders businesses the IT industry application developers researchers and students To successfully embrace this new computing model these stakeholders need to acquire new cloud computing skills and knowledge This book is designed to provide readers with a clear and thorough understanding of the key aspects of cloud computing Presented in an easy to understand style Essentials of Cloud Computing begins with an introduction to basic cloud computing concepts It then covers cloud computing architecture deployment models programming models and cloud service types such as Software as a Service SaaS and Infrastructure as a Service IaaS It also discusses the cloud s networking aspects major service providers open source support and security issues The book concludes with a discussion of several advanced topics such as mobile clouds media clouds and green clouds This book is intended for beginners as well as experienced practitioners who want to learn more about cloud computing It includes many case studies programming examples and industry based applications Each chapter concludes with review questions that help readers check their understanding of the presented topics Essentials of Cloud Computing will help readers understand the issues and challenges of cloud computing and will give them the tools needed to develop and deploy applications in clouds

Новітні комп'ютерні технології. Том XII М. І. Жалдак, В. О. Радкевич, Ю. С. Рамський, В. М. Соловійов, Ю. В. Триус, Ю. В. Єчкало, Н. В. Рашевська, К. І. Словак, І. О. Теплицький, В. В. Ткачук, С. В. Шокалюк, А. М. Стрюк, С. О. Семеріков, 2014-12-25

OpenStack Essentials Dan Radez, 2015-05-26 If you need to get started with OpenStack or want to learn more then this book is your perfect companion If you re comfortable with the Linux command line you ll gain confidence in using OpenStack

OpenStack in Action Cody Bumgardner, 2016-03-15 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 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 Table of Contents PART 1 GETTING STARTED Introducing OpenStack Taking an OpenStack test drive Learning basic OpenStack operations Understanding private cloud building blocks PART 2 WALKING THROUGH A MANUAL DEPLOYMENT Walking through a Controller deployment Walking through a Networking deployment Walking through a Block Storage deployment Walking through a Compute deployment PART 3 BUILDING A PRODUCTION ENVIRONMENT Architecting your OpenStack Deploying Ceph Automated HA OpenStack deployment with Fuel Cloud orchestration using OpenStack

Common Openstack Deployments Elizabeth K. Joseph,Matthew Fischer,2017

OpenStack is today s leading technology for building and integrating public and private clouds Common OpenStack Deployments is a complete practical guide to deploying OpenStack and understanding its internals Key project contributor Elizabeth Joseph with expert implementer Matt Fischer shares up to date recipes for deploying OpenStack on both virtual and physical servers and for using OpenStack to address any real world challenge First Joseph and Fischer help you master OpenStack concepts and components by guiding you through small scale virtualized deployments As you deepen your understanding they guide you through building large horizontally scalable infrastructures that integrate multiple components in a feature rich cloud environment Throughout you ll find up to the minute coverage of enhancements that make the OpenStack platform more mature and production ready plus expert tips on debugging and growth The authors conclude by introducing the broader OpenStack ecosystem showing you how to drive value through hybrid clouds blending local and hosted solutions Drawing on extensive personal experience they address issues ranging from cost to data sovereignty and security Common OpenStack Deployments is the ideal resource for all network and data center professionals who want to apply OpenStack in proof of concept or in production and for every instructor or student who wants to leverage today s hottest cloud technology Comprehensive coverage includes Customizing deploying and scaling OpenStack in any environment Quickly building single server test deployments with DevStack Making the right networking decisions for any OpenStack deployment Manually installing Nova compute Keystone identity Glance image storage and Neutron networking Setting up controllers and compute nodes Deploying private compute clouds with Puppet Metering clouds with Ceilometer Implementing block and object storage clouds Provisioning on bare metal with OpenStack Ironic Controlling containers with OpenStack Magnum Troubleshooting OpenStack error messages logs tools configuration problems Puppet debugging and more Step by step virtualized reference deployment using KVM QEMU on Ubuntu

Common OpenStack Deployments

Elizabeth Joseph K., Matthew Fischer, 2016 *Designing, Migrating and Deploying Applications* OpenStack Foundation, 2017-04-13 How are hundreds of leading edge enterprises deploying new application technologies such as containers so quickly What are they doing to transform existing applications How are they lowering costs by moving from public to private cloud What does the OpenStack platform offer application architects and developers OpenStack cloud software is the programmable integration engine that makes the confluence of modern applications and infrastructure possible This guide includes recommendations on approaches software development and migration patterns OpenStack tools and services and a planning checklist for moving applications from a public cloud to a private cloud *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

Production Ready OpenStack - Recipes for Successful Environments Arthur Berezin, 2015-10-12 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

Mastering OpenStack Omar Khedher,Chandan Dutta Chowdhury,2017-04-26 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 OpenStack based cloud in your mid to large IT infrastructure using automation tools and best practices Keep yourself up to date with valuable insights into OpenStack components and new services in the latest OpenStack release Discover how the new features in the latest OpenStack release can help your enterprise and infrastructure Who This Book Is For This book is for system administrators cloud engineers and system architects who would like to deploy an OpenStack based cloud in a mid to large IT infrastructure This book requires a moderate level of system administration and familiarity with cloud concepts What You Will Learn Explore the main architecture design of OpenStack components and core by core services and how they work together Design different high availability scenarios and plan for a no single point of failure environment Set up a multinode environment in production using orchestration tools Boost OpenStack s performance with advanced configuration Delve into various hypervisors and container technology supported by OpenStack Get familiar with deployment methods and discover use cases in a real production environment Adopt the DevOps style of automation while deploying and operating in an OpenStack environment Monitor the cloud infrastructure and make decisions on maintenance and performance improvement In Detail In this second edition you will get to grips with the latest features of OpenStack Starting with an overview of the OpenStack architecture you ll see how to adopt the DevOps style of automation while deploying and operating in an OpenStack environment We ll

show you how to create your own OpenStack private cloud Then you ll learn about various hypervisors and container technology supported by OpenStack You ll get an understanding about the segregation of compute nodes based on reliability and availability needs We ll cover various storage types in OpenStack and advanced networking aspects such as SDN and NFV Next you ll understand the OpenStack infrastructure from a cloud user point of view Moving on you ll develop troubleshooting skills and get a comprehensive understanding of services such as high availability and failover in OpenStack Finally you will gain experience of running a centralized logging server and monitoring OpenStack services The book will show you how to carry out performance tuning based on OpenStack service logs You will be able to master OpenStack benchmarking and performance tuning By the end of the book you ll be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies Style and approach This book will help you understand the flexibility of OpenStack by showcasing integration of several out of the box solutions in order to build a large scale cloud environment It will also cover detailed discussions on the various design and deployment strategies for implementing a fault tolerant and highly available cloud infrastructure

[Extending OpenStack](#) Omar Khedher,2018-02-27 Discover new opportunities to empower your private cloud by making the most of the OpenStack universe Key Features This practical guide teaches you how to extend the core functionalities of OpenStack Discover OpenStack s flexibility by writing custom applications and network plugins Deploy a containerized environment in OpenStack through a hands on and example driven approach Book Description OpenStack is a very popular cloud computing platform that has enabled several organizations during the last few years to successfully implement their Infrastructure as a Service IaaS platforms This book will guide you through new features of the latest OpenStack releases and how to bring them into production straightaway in an agile way It starts by showing you how to expand your current OpenStack setup and how to approach your next OpenStack Data Center generation deployment You will discover how to extend your storage and network capacity and also take advantage of containerization technology such as Docker and Kubernetes in OpenStack Additionally you ll explore the power of big data as a Service terminology implemented in OpenStack by integrating the Sahara project This book will teach you how to build Hadoop clusters and launch jobs in a very simple way Then you ll automate and deploy applications on top of OpenStack You will discover how to write your own plugin in the Murano project The final part of the book will go through best practices for security such as identity access management and authentication exposed by Keystone in OpenStack By the end of this book you will be ready to extend and customize your private cloud based on your requirements What you will learn Explore new incubated projects in the OpenStack ecosystem and see how they work Architect your OpenStack private cloud with extended features of the latest versions Consolidate OpenStack authentication in your large infrastructure to avoid complexity Find out how to expand your computing power in OpenStack on a large scale Reduce your OpenStack storage cost management by taking advantage of external tools Provide easy on demand cloud ready applications to developers using OpenStack in no

time Enter the big data world and find out how to launch elastic jobs easily in OpenStack Boost your extended OpenStack private cloud performance through real world scenarios Who this book is for This book is for system administrators cloud architects and developers who have experience working with OpenStack and are ready to step up and extend its functionalities A good knowledge of basic OpenStack components is required In addition familiarity with Linux boxes and a good understanding of network and virtualization jargon is required Mastering OpenStack - Second Edition Omar Khedher,Chandan Dutta,2017-04-26 Discover your complete guide to designing deploying and managing OpenStack based clouds in mid to large IT infrastructures with best practices expert understanding and moreAbout This Book Design and deploy an OpenStack based cloud in your mid to large IT infrastructure using automation tools and best practices Keep yourself up to date with valuable insights into OpenStack components and new services in the latest OpenStack release Discover how the new features in the latest OpenStack release can help your enterprise and infrastructureWho This Book Is ForThis book is for system administrators cloud engineers and system architects who would like to deploy an OpenStack based cloud in a mid to large IT infrastructure This book requires a moderate level of system administration and familiarity with cloud concepts What You Will Learn Explore the main architecture design of OpenStack components and core by core services and how they work together Design different high availability scenarios and plan for a no single point of failure environment Set up a multinode environment in production using orchestration tools Boost OpenStack s performance with advanced configuration Delve into various hypervisors and container technology supported by OpenStack Get familiar with deployment methods and discover use cases in a real production environment Adopt the DevOps style of automation while deploying and operating in an OpenStack environment Monitor the cloud infrastructure and make decisions on maintenance and performance improvementIn DetailIn this second edition you will get to grips with the latest features of OpenStack Starting with an overview of the OpenStack architecture you ll see how to adopt the DevOps style of automation while deploying and operating in an OpenStack environment We ll show you how to create your own OpenStack private cloud Then you ll learn about various hypervisors and container technology supported by OpenStack You ll get an understanding about the segregation of compute nodes based on reliability and availability needs We ll cover various storage types in OpenStack and advanced networking aspects such as SDN and NFV Next you ll understand the OpenStack infrastructure from a cloud user point of view Moving on you ll develop troubleshooting skills and get a comprehensive understanding of services such as high availability and failover in OpenStack Finally you will gain experience of running a centralized logging server and monitoring OpenStack services The book will show you how to carry out performance tuning based on OpenStack service logs You will be able to master OpenStack benchmarking and performance tuning By the end of the book you ll be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies Style and approachThis book will help you understand the flexibility of OpenStack by showcasing integration of several out of the box solutions in order to

build a large scale cloud environment It will also cover detailed discussions on the various design and deployment strategies for implementing a fault tolerant and highly available cloud infrastructure 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: Building a Cloud Environment* Alok Shrivastwa,Sunil Sarat,Kevin Jackson,Cody Bunch,Egle Sigler,Tony Campbell,2016-09-19 Learn how you can put the features of OpenStack to work in the real world in this comprehensive path About This Book Harness the abilities of experienced OpenStack administrators and architects and run your own private cloud successfully Learn how to install configure and manage all of the OpenStack core projects including topics on Object Storage Block Storage and Neutron Networking services such as LBaaS and FWaaS Get better equipped to troubleshoot and solve common problems in performance availability and automation that confront production ready OpenStack environments Who This Book Is For This course is for those who are new to OpenStack who want to learn the cloud networking fundamentals and get started with OpenStack networking Basic understanding of Linux Operating System Virtualization and Networking and Storage principles will come in handy What You Will Learn Get an introduction to OpenStack and its components Store and retrieve data and images using storage components such as Cinder Swift and Glance Install and configure Swift the OpenStack Object Storage service including configuring Container Replication between datacenters Gain hands on experience and familiarity with Horizon the OpenStack Dashboard user interface Learn how to automate OpenStack installations using Ansible and Foreman Follow practical advice and examples for running

OpenStack in production Fix common issues with images served through Glance and master the art of troubleshooting Neutron networking In Detail OpenStack is a collection of software projects that work together to provide a cloud fabric Learning OpenStack Cloud Computing course is an exquisite guide that you will need to build cloud environments proficiently This course will help you gain a clearer understanding of OpenStack s components and their interaction with each other to build a cloud environment The first module Learning OpenStack starts with a brief look into the need for authentication and authorization the different aspects of dashboards cloud computing fabric controllers along with Networking as a Service and Software defined Networking Then you will focus on installing configuring and troubleshooting different architectures such as Keystone Horizon Nova Neutron Cinder Swift and Glance After getting familiar with the fundamentals and application of OpenStack let s move deeper into the realm of OpenStack In the second module OpenStack Cloud Computing Cookbook preview how to build and operate OpenStack cloud computing storage networking and automation Dive into Neutron the OpenStack Networking service and get your hands dirty with configuring ML2 networks routers and distributed virtual routers Further you ll learn practical examples of Block Storage LBaaS and FBaaS The final module Troubleshooting OpenStack will help you quickly diagnose troubleshoot and correct problems in your OpenStack We will diagnose and remediate issues in Keystone Glance Neutron networking Nova Cinder block storage Swift object storage and issues caused by Heat orchestration This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Learning OpenStack by Alok Shrivastwa Sunil Sarat OpenStack Cloud Computing Cookbook Third Edition by Kevin Jackson Cody Bunch Egle Sigler Troubleshooting OpenStack by Tony Campbell Style and approach This course aims to create a smooth learning path that will teach you how to get started with setting up private and public clouds using a free and open source cloud computing platform OpenStack Through this comprehensive course you ll learn OpenStack Cloud computing from scratch to finish and more

OpenStack for Architects Michael Solberg, 2017-02-03 Design and implement successful private clouds with OpenStack About This Book Explore the various design choices available for cloud architects within an OpenStack deployment Craft an OpenStack architecture and deployment pipeline to meet the unique needs of your organization Create a product roadmap for Infrastructure as a Service in your organization using this hands on guide Who This Book Is For This book is written especially for those who will design OpenStack clouds and lead their implementation These people are typically cloud architects but may also be in product management systems engineering or enterprise architecture What You Will Learn Familiarize yourself with the components of OpenStack Build an increasingly complex OpenStack lab deployment Write compelling documentation for the architecture teams within your organization Apply Agile configuration management techniques to deploy OpenStack Integrate OpenStack with your organization s identity management provisioning and billing systems Configure a robust virtual environment for users to interact with Use enterprise security guidelines for your

OpenStack deployment Create a product roadmap that delivers functionality quickly to the users of your platform In Detail Over the last five years hundreds of organizations have successfully implemented Infrastructure as a Service IaaS platforms based on OpenStack The huge amount of investment from these organizations industry giants such as IBM and HP as well as open source leaders such as Red Hat have led analysts to label OpenStack as the most important open source technology since the Linux operating system Because of its ambitious scope OpenStack is a complex and fast evolving open source project that requires a diverse skill set to design and implement it This guide leads you through each of the major decision points that you ll face while architecting an OpenStack private cloud for your organization At each point we offer you advice based on the experience we ve gained from designing and leading successful OpenStack projects in a wide range of industries Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production quality OpenStack clouds Most importantly we focus on ensuring that your OpenStack project meets the needs of your organization which will guarantee a successful rollout Style and approach This is practical hands on guide to implementing OpenStack clouds where each topic is illustrated with real world examples and then the technical points are proven in the lab

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