

Openstack Cloud Computing Architecture Guide

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The Architecture Design Guide provides information on planning and designing an OpenStack cloud. It explains core concepts, cloud architecture design requirements, and the design criteria of key components and services in an OpenStack cloud. The guide also describes five common cloud use cases. Before reading this book, we recommend: Prior knowledge of cloud architecture and principles. Linux ...

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OpenStack Cloud Computing Architecture Guide [PDF, EPUB, EBOOK]

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Conceptual architecture. Conceptual architecture¶ The following diagram shows the relationships among the OpenStack services: this page last updated: 2020-10-27 10:26:10. Except where otherwise noted, this document is licensed under Creative Commons Attribution 3.0 License. See all OpenStack Legal Documents. found an error? report a bug. OpenStack Documentation. Guides: Install Guides: User ...

OpenStack Docs Conceptual architecture

The service's state is stored in a database. When deploying and configuring your OpenStack cloud, you can choose among several message broker and database solutions, such as RabbitMQ, MySQL, MariaDB, and SQLite. Users can access OpenStack via the web-based user interface implemented by the Horizon Dashboard, via command-line clients and by issuing API requests through tools like browser plug ...

OpenStack Docs Logical architecture

The OpenStack project is an open source cloud computing platform that supports all types of cloud environments. The project aims for simple implementation, massive scalability, and a rich set of features. Cloud computing experts from around the world contribute to the project. OpenStack provides an Infrastructure-as-a-Service (IaaS) solution through a variety of complementary services. Each ...

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The OpenStack Cloud Computing: Architecture Guide is not a tutorial on using OpenStack. It is an introduction to building a cloud based on OpenStack technologies. OpenStack includes a large set of modular and extensible components with broad industry support. Enterprises and service providers alike can use these programs and services to improve the efficiency, agility, security, quality and ...

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OPENSTACK CLOUD COMPUTING GUIDE

This guide introduces the OpenStack cloud components and provides design guidelines and architecture examples to help you design your own OpenStack cloud.

Architecture Guide Red Hat OpenStack Platform 12 | Red Hat

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OpenStack Cloud Computing Architecture Guide By John Rhoton

OpenStack Cloud to provide a pre-integrated, optimized and sup-ported configuration that is ready for production deployment . The entire configuration is integrated, tested and configured with software in the factory prior to shipment . Pilot Production Rack Configuration Introduction Delivering a fully orchestrated OpenStack cloud can be

SUSE OpenStack Cloud Production Deployment Architecture

Cloud computing is the delivery of on-demand computing resources, everything from applications to data centers, over the internet. The various types of cloud computing deployment models include public cloud, private cloud, hybrid cloud, and multicloud.

Cloud IBM Developer IBM Developer

OpenStack offers open source software for OpenStack administrators to manage and troubleshoot an OpenStack cloud. This guide documents the OpenStack Newton release. Contents¶ Conventions. Notices/ Command prompts/ Get started with OpenStack. Conceptual architecture/ Logical architecture / OpenStack services/ Feedback/ Identity management. Identity concepts/ Certificates for PKI/ Domain ...

OpenStack Docs OpenStack Administrator Guide

OpenStack Architecture Design Guide current (2014-09-13) ... loads such as high performance computing (HPC). •Storage focused: A cloud focused on storage intensive workloads such as data analytics with parallel file systems. •Network focused: A cloud depending on high performance and reliable networking, such as a content delivery network (CDN). •Multi-site: A cloud built with multiple ...

OpenStack Architecture Design Guide

The OpenStack community is a global collaboration of developers and cloud computing technologists producing the ubiquitous open source cloud computing platform for public and private clouds. The project aims to deliver feature-rich solutions for all types of clouds by being simple to implement yet massively scalable. The technology consists of a series of related projects delivering various ...

OpenStack Cloud Computing Architecture Guide

OpenStack Cloud Computing is not a tutorial on using OpenStack. It is an introduction to building a cloud based on OpenStack technologies. OpenStack includes a large set of modular and extensible components with broad industry support. Enterprises and service providers alike can use these programs and services to improve the efficiency, agility, security, quality and usability of their data center operations. These benefits are not free. Someone will have the responsibility to evaluate, design and implement the technology. They will need to select the services they require, choose from the myriad configuration options and incorporate the necessary plugins. The architects must ensure that they not only cover the basic functions, such as compute, storage and networking, but also integrate them into the existing infrastructure and address key topics like administration, billing, confidentiality, availability and scalability. This book introduces the reader to some of the primary challenges and suggests how to address them in an environment based on OpenStack.

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

A Cookbook full of practical and applicable recipes that will enable you to use the full capabilities of OpenStack like never before.This book is aimed at system administrators and technical architects moving from a virtualized environment to cloud environments with familiarity of cloud computing platforms. Knowledge of virtualization and managing linux environments is expected.

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.

Implement successful private clouds with OpenStack Key Features Gain hands-on experience in designing a private cloud for all infrastructures Create a robust virtual environment for your organization Design, implement and deploy an OpenStack-based cloud based on the Queens release Book Description Over the past six years, hundreds of organizations have successfully implemented Infrastructure as a Service (IaaS) platforms based on OpenStack. The huge amount of investment from these organizations, including industry giants such as IBM and HP, as well as open source leaders, such as Red Hat, Canonical, and SUSE, has led analysts to label OpenStack as the most important open source technology since the Linux operating system. Due to its ambitious scope, OpenStack is a complex and fast-evolving open source project that requires a diverse skill set to design and implement it. OpenStack for Architects leads you through the major decision points that you'll face while architecting an OpenStack private cloud for your organization. This book will address the recent changes made in the latest OpenStack release i.e Queens, and will also deal with advanced concepts such as containerization, NVF, and security. At each point, the authors offer you advice based on the experience they'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 services, as well as some working experience of concepts, is recommended.

This book is written to help enterprise architects implement an OpenStack(r) cloud. With architects with one foot in information technology and the other in business operations in mind, we want to offer insights and best practices to help you achieve multiple (and sometimes competing) goals.If you're looking for vendor-neutral answers about planning your path to an OpenStack cloud, you're in the right place.Members of the OpenStack community-technologists, business leaders and product managers-collaborated on this book to explain how to get started with an OpenStack cloud. We've included pros and cons to help you make better choices when setting up your cloud, along with anticipated investments of both time and money.In this book, we'll discuss the considerations involved and how to make OpenStack cloud decisions about models, forming your team, organization and process changes, choosing workloads, and implementation from proof-of-concept through ongoing maintenance.Topics include: * Your technology options and their pros and cons * What to expect-in support, level of investment, and customization-from each type of cloud and consumption model * Operational models for a cloud, including staffing, plus how to manage consumption of cloud services in your business * How to assess the cloud's value to your business.After reading this book, you'll understand the process of building an OpenStack cloud, various cloud models, and operational and application approaches. You'll understand what decisions to make before building your cloud, and their effects on cost, resources and capabilities.

Over 110 effective recipes to help you build and operate OpenStack cloud computing, storage, networking, and automation About This Book Explore many new features of OpenStack's Juno and Kilo releases Install, configure, and administer core projects with the help of OpenStack Object Storage, Block Storage, and Neutron Networking services Harness the abilities of experienced OpenStack administrators and architects, and run your own private cloud successfully Practical, real-world examples of each service and an accompanying Vagrant environment that helps you learn quickly In Detail OpenStack Open Source software is one of the most used cloud infrastructures to support software development and big data analysis. It is developed by a thriving community of individual developers from around the globe and backed by most of the leading players in the cloud space today. It is simple to implement, massively scalable, and can store a large pool of data and networking resources. OpenStack has a strong ecosystem that helps you provision your cloud storage needs. Add OpenStack's enterprise features to reduce the cost of your business. This book will show you the steps to build up a private cloud environment. At the beginning, you'll discover the uses of cloud services such as the identity service, image service, and compute service. You'll dive into Neutron, the OpenStack Networking service, and get your hands dirty with configuring ML2, networks, routers, and Distributed Virtual Routers. You'll then gather more expert knowledge on OpenStack cloud computing by managing your cloud's security and migration. After that, we delve in to OpenStack Object storage and how to manage servers and work with objects, cluster, and storage functionalities. Also, as you go deeper into the realm of OpenStack, you'll learn practical examples of Block storage, LBaaS, and FaaS: installation and configuration covered ground up. Finally, you will learn OpenStack dashboard, Ansible and Foreman, Keystone, and other interesting topics. What You Will Learn Understand, install, configure, and manage Nova-the OpenStack Cloud Compute resource Configure ML2, networks, routers, and Distributed Virtual Routers with Neutron Use and secure Keystone, the OpenStack Authentication service Install and set up Swift and Container Replication between datacenters Gain hands-on experience and familiarity with Horizon, the OpenStack Dashboard user interface Automate complete solutions with our recipes on Heat, the OpenStack Orchestration service Use Ansible and Foreman to automate OpenStack installations successfully Follow practical advice and examples to run OpenStack in production Who This Book Is For This book is aimed at cloud system engineers, system administrators, and technical architects who are moving from a virtualized environment to cloud environments. This book assumes that you are familiar with cloud computing platforms, and have knowledge of virtualization, networking, and managing linux environments. Style and approach Clear, step-by-step instructions coupled with practical and applicable recipes that'll enable you to use and implement the latest features of OpenStack.

Helping you leverage the power of OpenStack to develop scalable applications with no vendor lock-in, this expert guide is a fast-paced, professional book for OpenStack developers, delivering comprehensive guidance without wasting time on development fundamentals. --

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 FaaS 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 FaaS. 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!

Over 110 effective recipes to help you build and operate OpenStack cloud computing, storage, networking, and automationAbout This Book• Explore many new features of OpenStack's Juno and Kilo releases• Install, configure, and administer core projects with the help of OpenStack Object Storage, Block Storage, and Neutron Networking services• Harness the abilities of experienced OpenStack administrators and architects, and run your own private cloud successfully• Practical, real-world examples of each service and an accompanying Vagrant environment that helps you learn quickly In DetailOpenStack Open Source software is one of the most used cloud infrastructures to support software development and big data analysis. It is developed by a thriving community of individual developers from around the globe and backed by most of the leading players in the cloud space today.It is simple to implement, massively scalable, and can store a large pool of data and networking resources. OpenStack has a strong ecosystem that helps you provision your cloud storage needs. Add OpenStack's enterprise features to reduce the cost of your business.This book will show you the steps to build up a private cloud environment. At the beginning, you'll discover the uses of cloud services such as the identity service, image service, and compute service. You'll dive into Neutron, the OpenStack Networking service, and get your hands dirty with configuring ML2, networks, routers, and Distributed Virtual Routers. You'll then gather more expert knowledge on OpenStack cloud computing by managing your cloud's security and migration. After that, we delve in to OpenStack Object storage and how to manage servers and work with objects, cluster, and storage functionalities. Also, as you go deeper into the realm of OpenStack, you'll learn practical examples of Block storage, LBaaS, and FaaS: installation and configuration covered ground up. Finally, you will learn OpenStack dashboard, Ansible and Foreman, Keystone, and other interesting topics.What You Will Learn• Understand, install, configure, and manage Nova-the OpenStack Cloud Compute resource• Configure ML2, networks, routers, and Distributed Virtual Routers with Neutron• Use and secure Keystone, the OpenStack Authentication service• Install and set up Swift and Container Replication between datacenters• Gain hands-on experience and familiarity with Horizon, the OpenStack Dashboard user interface• Automate complete solutions with our recipes on Heat, the OpenStack Orchestration service• Use Ansible and Foreman to automate OpenStack installations successfully• Follow practical advice and examples to run OpenStack in productionWho This Book Is ForThis book is aimed at cloud system engineers, system administrators, and technical architects who are moving from a virtualized environment to cloud environments. This book assumes that you are familiar with cloud computing platforms, and have knowledge of virtualization, networking, and managing linux environments.Style and approachClear, step-by-step instructions coupled with practical and applicable recipes that'll enable you to use and implement the latest features of OpenStack.