Community Experience Distilled

Implementing Cloud Storage with OpenStack Swift

Design, implement, and successfully manage your own cloud
storage cluster using the popular OpenStack Swift software

Foreword by Sean Roberts,
Board Director at the OpenStack Foundation, Infrastructure Strategy at Yahoo

Amar Kapadia   Sreedhar Varma

Kris Rajana

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Implementing Cloud Storage With Openstack Swift Varma Sreedhar

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Implementing Cloud Storage With Openstack Swift Varma Sreedhar:

Implementing Cloud Storage with OpenStack Swift Amar Kapadia,Sreedhar Varma,Kris Rajana,2014-05-17 This tutorial based book has a step by step approach for each topic ensuring it is thoroughly covered and easy to follow If you are an IT administrator who wants to enter the world of cloud storage using OpenStack Swift then this book is ideal for you Whether your job is to build manage or use OpenStack Swift this book is an ideal way to move your career ahead Only basic Linux and server technology skills are expected to take advantage of this book   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,2015-07-30 This comprehensive guide will help you to choose the right practical option and make strategic decisions about the OpenStack cloud environment to fit your infrastructure in production At the start this book will explain the OpenStack core architecture You will soon be shown how to create your own OpenStack private cloud Next you will move on to cover the key security layer and network troubleshooting skills along with some advanced networking features Finally you will gain experience of centralizing and logging OpenStack The book will show you how to carry out performance tuning based on OpenStack service logs By the end of this book you will be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies **OpenStack Cloud Computing Cookbook** Kevin Jackson,Cody Bunch,Egle Sigler,2015-08-19 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 FWaaS 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 **Learning Swift** Andrew J Wagner,2015-06-30 Swift is Apple s new programming language and the future of iOS and OS X app development At its surface Swift is easy to jump into but it has complex elements that are critical to becoming proficient at turning an idea into reality Develop the skills and confidence to dive passionately into creating compelling maintainable and elegant apps in Swift This book provides an approachable step by step introduction into programming with Swift Each topic is separated into comprehensive sections that are full of practical examples and easy to understand explanations Each section builds on the previous topics to develop a comprehensive understanding of app development in Swift It begins by giving an overview of the key features with practical examples and progresses to more advanced topics that help differentiate the skillful developers from the mediocre ones It covers topics such as variables optionals closures generics and memory management In addition this book also covers the art of programming such as maintainability useful design patterns and resources for furthering your knowledge This all culminates in writing a basic iOS app that will get you well on your way to turning your own app ideas into a reality *OpenStack Object Storage (Swift) Essentials* Amar Kapadia,Kris Rajana,Sreedhar Varma,2015-05-30 If you are an IT administrator and you want to enter the world of cloud storage using OpenStack Swift then this book is ideal for you Basic knowledge of Linux and server technology is beneficial to get the most out of the book **Openstack Object Storage (Swift) Essentials** Amar Kapadia,Sreedhar Varma,Kris Rajana,2015-05-30 If you are an IT administrator and you want to enter the world of cloud storage using OpenStack Swift then this book is ideal for you Basic knowledge of Linux and server technology is beneficial to get the most out of the book *Amazon S3 Essentials* Sunil Gulabani,2015-11-03 Get started with Amazon S3 for virtually unlimited cloud and Internet storage About This Book Familiarize yourself with the concepts of Amazon S3 Understand basic operations of bucket folders and objects using Amazon S3 SDK Java Leverage the power of Amazon S3 to effectively store and retrieve data Who This Book Is For This book is intended for System Engineers Developers Software Architects Project managers and users who want to explore Amazon S3 SDK Java If you want to learn about Amazon S3 quickly then this book is for you Basic knowledge of Java programming is expected What You Will Learn Start with the basic concepts of Amazon S3 to get you going Use Copy Object and Multipart Copy Object for objects of different sizes Understand how to use the amazon management console for Amazon S3 Learn how to use the AWS SDK of Java and consume the Amazon S3 Get to grips with managing the bucket life cycle Configure CORS to share resources to a

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secure your content with IAM optimize Amazon S3 performance and notify S3 events with Lambada By the end of this book you will be successfully implementing pro level practices techniques and solutions in Amazon S3 Style and approach A step by step practical guide that will show you how to efficiently store manage and control your data in Amazon S3 **Building a Parallel Cloud Storage System Using OpenStack's Swift Object Store and Transformative Parallel I/O.** ,2012 Our project consists of bleeding edge research into replacing the traditional storage archives with a parallel cloud based storage solution It used OpenStack s Swift Object Store cloud software It s Benchmarked Swift for write speed and scalability Our project is unique because Swift is typically used for reads and we are mostly concerned with write speeds Cloud Storage is a viable archive solution because 1 Container management for larger parallel archives might ease the migration workload 2 Many tools that are written for cloud storage could be utilized for local archive and 3 Current large cloud storage practices in industry could be utilized to manage a scalable archive solution 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

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