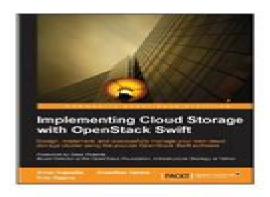


Implementing Cloud Storage with OpenStack Swift

Amar Kapadia Sreedhar Varma Kris Rajana



Chapter No. 4 "Using Swift"

Arthur Berezin

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

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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

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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 **Deployment of OpenStack Swift Cluster** Palak Mittal, Vivek Purohit, Ankit Agarwal, 2016-08-16

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