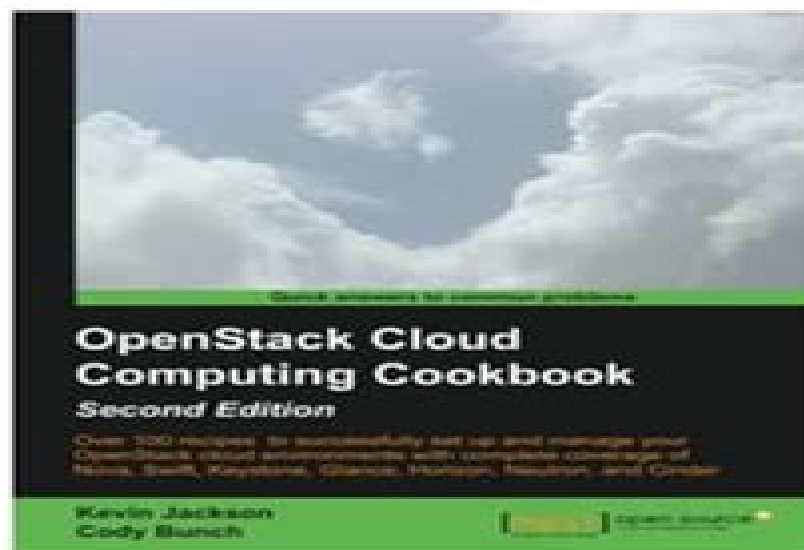


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OpenStack Cloud Computing Cookbook Kevin Jackson, Cody Bunch, Egle Sigler, James Denton, 2018-01-29 The Fourth Edition of the industry acclaimed OpenStack Cloud Computing Cookbook from four recognized experts updated to the

latest OpenStack build including Cinder Nova and Neutron Key Features Over 100 recipes created by a team of OpenStack experts Updated to work with the latest OpenStack builds with recipes covering the installation and use of OpenStack with Ansible It covers topics such as Keystone Glance Neutron Nova Cinder and more plus recipes for OpenStack storage networking and orchestrating workloads Test drive OpenStack using the accompanying Vagrant environment Book Description This is the fourth edition of the industry acclaimed OpenStack Cloud Computing Cookbook created by four recognized OpenStack experts It has now been updated to work with the latest OpenStack builds using tools and processes based on their collective and vast OpenStack experience OpenStack Open Source Cloud software is one of the most used cloud infrastructures to support a wide variety of use cases from software development to 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 We make it simple to implement massively scalable and able to 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 begin by showing you the steps to build up an OpenStack private cloud environment using Ansible You ll then 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 networks routers load balancers and more You ll then gather more expert knowledge on OpenStack cloud computing by managing your cloud s security and migration After that we delve into OpenStack Object storage and you ll see how to manage servers and work with objects cluster and storage functionalities Finally you will learn about OpenStack dashboard Ansible Keystone and other interesting topics What you will learn Understand install configure and manage a complete OpenStack Cloud platform using OpenStack Ansible Configure networks routers load balancers and more with Neutron Use Keystone to setup domains roles groups and user access Learn how to use Swift and setup container access control lists 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 as well as using Ansible to orchestrate application workloads Follow practical advice and examples to run OpenStack in production Who this book is for This book is written for 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 [Creating Development Environments with Vagrant - Second Edition](#) Michael Peacock,2015-03-12 If you are a developer who wants to have your development environment accurately reflect your live servers to tackle the ever increasing complexity of web and software projects this book is most certainly intended for you It s assumed that you know the basics of Linux systems in the context of web based projects [OpenStack Cloud Computing Cookbook](#) Kevin Jackson,Cody Bunch,Egle Sigler,2015-08-19 Over 110 effective recipes to help you build and operate

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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

VMware vCloud Director Cookbook Daniel Langenhan,2013-10-24 VMware vCloud Director Cookbook will adopt a Cookbook based approach Packed with illustrations

and programming examples this book explains the simple as well as the complex recipes in an easy to understand language VMware vCloud Director Cookbook is aimed at system administrators and technical architects moving from a virtualized environment to cloud environments Familiarity with cloud computing platforms and some knowledge of virtualization and managing cloud environments is expected

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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

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VMware Horizon Workspace Essentials Peter von Oven, Peter Björk, Joel Lindberg, 2014-03-20 This book uses a step by step approach to teach you how to design deploy and manage a Horizon Workspace based on real world experience Written in an easy to follow style this book explains the terminology in a clear and concise manner Each feature is explained starting at a high level and then drilling down into the technical detail using diagrams and screenshots This book is perfect for IT

administrators who want to deploy a solution to centrally manage access to corporate applications data and virtual desktops using Horizon Workspace You need to have some experience in delivering BYOD initiatives and delivering applications from the Cloud SaaS [Openstack Cloud Computing](#) Kevin Jackson,2017 **Enterprise Management Strategies in the Era of Cloud Computing** Rao, N. Raghavendra,2015-04-30 Recent advances in internet architecture have led to the advent and subsequent explosion of cloud computing technologies providing businesses with a powerful toolbox of collaborative digital resources These technologies have fostered a more flexible decentralized approach to IT infrastructure enabling businesses to operate in a more agile fashion and on a globalized scale Enterprise Management Strategies in the Era of Cloud Computing seeks to explore the possibilities of business in the cloud Targeting an audience of research scholars students software developers and business professionals this premier reference source provides a cutting edge look at the exciting and multifaceted relationships between cloud computing software virtualization collaborative technology and business infrastructure in the 21st Century [OpenStack Cloud Computing Cookbook - Fourth Edition](#) Kevin Jackson,Cody Bunch,Egle Sigler,2018-01-25 The Fourth Edition of the industry acclaimed OpenStack Cloud Computing Cookbook from four recognized experts updated to the latest OpenStack build including Cinder Nova and Neutron Key Features Over 100 recipes created by a team of OpenStack experts Updated to work with the latest OpenStack builds with recipes covering the installation and use of OpenStack with Ansible It covers topics such as Keystone Glance Neutron Nova Cinder and more plus recipes for OpenStack storage networking and orchestrating workloads Test drive OpenStack using the accompanying Vagrant environment Book Description This is the fourth edition of the industry acclaimed OpenStack Cloud Computing Cookbook created by four recognized OpenStack experts It has now been updated to work with the latest OpenStack builds using tools and processes based on their collective and vast OpenStack experience OpenStack Open Source Cloud software is one of the most used cloud infrastructures to support a wide variety of use cases from software development to 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 We make it simple to implement massively scalable and able to 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 begin by showing you the steps to build up an OpenStack private cloud environment using Ansible You ll then 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 networks routers load balancers and more You ll then gather more expert knowledge on OpenStack cloud computing by managing your cloud s security and migration After that we delve into OpenStack Object storage and you ll see how to manage servers and work with objects cluster and storage functionalities Finally you will learn about OpenStack dashboard Ansible Keystone and other interesting topics What you will learn

Understand install configure and manage a complete OpenStack Cloud platform using OpenStack Ansible Configure networks routers load balancers and more with Neutron Use Keystone to setup domains roles groups and user access Learn how to use Swift and setup container access control lists 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 as well as using Ansible to orchestrate application workloads Follow practical advice and examples to run OpenStack in production Who this book is for This book is written for 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

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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

Adaptive Resource Management and Scheduling for Cloud Computing
Florin Pop, Maria Potop-Butucaru, 2014-11-25 This book constitutes the thoroughly refereed post conference proceedings of the First International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing ARMS CC 2014 held in Conjunction with ACM Symposium on Principles of Distributed Computing PODC 2014 in Paris France in July 2014

The 14 revised full papers including 2 invited talks were carefully reviewed and selected from 29 submissions and cover topics such as scheduling methods and algorithms services and applications fundamental models for resource management in the cloud

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

Learning OpenStack Networking James Denton,2018-08-31 Discover the basics of virtual networking in OpenStack to implement various cloud network architectures Key Features Learn the difference between Open vSwitch and Linux bridge switching technologies Connect virtual machine instances to virtual networks subnets and ports Implement virtual load balancers firewalls and routers in your network Book Description OpenStack Networking is a pluggable scalable and API driven system to manage physical and virtual networking resources in an OpenStack based cloud Like other core OpenStack components OpenStack Networking can be used by administrators and users to increase the value and maximize the use of existing datacenter resources This third edition of Learning OpenStack Networking walks you through the installation of OpenStack and provides you with a foundation that can be used to build a scalable and production ready OpenStack cloud In the initial chapters you will review the physical network requirements and architectures necessary for an OpenStack environment that provide core cloud functionality Then you ll move through the installation of the new release of OpenStack using packages from the Ubuntu repository An overview of Neutron networking foundational concepts including networks subnets and ports will segue into advanced topics such as security groups distributed virtual routers virtual load balancers and VLAN tagging within instances By the end of this book you will have built a network infrastructure for your cloud using OpenStack Neutron What you will learn Get familiar with Neutron constructs including agents and plugins Build foundational Neutron resources to provide connectivity to instances Work with legacy Neutron routers and troubleshoot traffic through them Explore high availability routing capabilities utilizing Virtual Router Redundancy Protocol VRRP Create and manage load balancers and associated components Manage security groups as a method of securing traffic to and from instances Who this book is for If you are an OpenStack based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud then this book is for you Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book

OpenStack Networking Cookbook Sriram Subramanian,Chandan Dutta Chowdhury,2015-10-23

OpenStack for Architects Ben Silverman,Michael

Solberg,2018-05-31 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 the book focuses on ensuring that your OpenStack project meets the needs of your organization which will guarantee a successful rollout What you will learn Learn the overall structure of an OpenStack deployment Craft an OpenStack deployment process which fits within your organization Apply Agile Development methodologies to engineer and operate OpenStack clouds Build a product roadmap for Infrastructure as a Service based on OpenStack Make use of containers to increase the manageability and resiliency of applications running in and on OpenStack Use enterprise security guidelines for your OpenStack deployment Who this book is for OpenStack for Architects is for Cloud architects who are responsible to design and implement a private cloud with OpenStack System engineers and enterprise architects will also find this book useful Basic understanding of core OpenStack services as well as some working experience of concepts is recommended

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