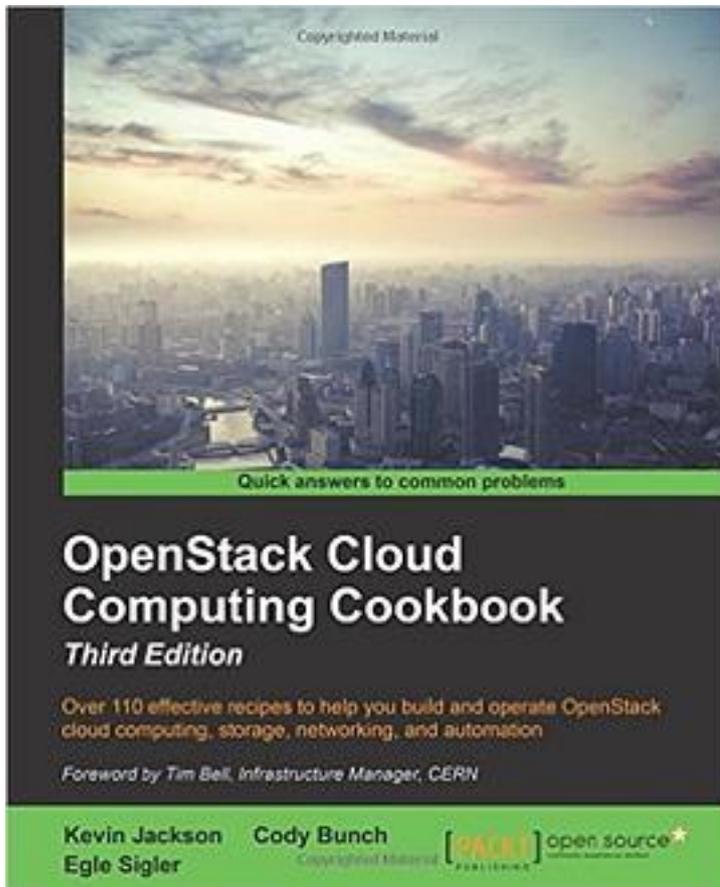# OpenStack Cloud Computing Cookbook - Third Edition

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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.

作者介绍:

About the Author

Kevin Jackson

Kevin Jackson is married and has three children. He is an experienced IT professional working with business and enterprises of all sizes at Rackspace as an OpenStack and private cloud specialist. Kevin has been working with OpenStack since early 2011 and has extensive experience of various flavors of Linux, Unix, and hosting environments. Kevin can be found on Twitter at @itarchitectkev. Kevin authored the first edition and coauthored the second edition of the OpenStack Cloud Computing Cookbook, Packt Publishing. Kevin also coauthored OpenStack Foundation's OpenStack Architecture Design Guide during a 5-day book sprint in California.

Cody Bunch

Cody Bunch is a principal architect in the Rackspace Private Cloud group based out of San Antonio, Texas. Cody has been working with OpenStack since early 2012, coauthored the second edition of this book and also coauthored OpenStack Security Guide. Cody has extensive experience with virtualized and cloud environments in various-sized enterprises and hosting environments. Cody can be found on Twitter at @cody_bunch.

Egle Sigler

Egle Sigler is an OpenStack Foundation board member and a principal architect in the Rackspace Private Cloud group based out of San Antonio, Texas. Egle holds an M.S. degree in computer science. She started her career as a software developer and still has a soft spot for all the people who write, test, and deploy code, since she has had the chance to do all of those tasks throughout her career. Egle dreams about a day when writing, testing, and deploying code will be a seamless and easy process—bug and frustration free for all. Egle believes that knowledge should be shared and has tried to do this by writing this book, giving talks and workshops at conferences, and blogging. Egle can be found on Twitter at @eglute. She has coauthored DevOps for VMware Administrators (VMware Press Technology).

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