



Quick answers to common problems

# OpenStack Cloud Computing Cookbook

*Third Edition*

Over 110 effective recipes to help you build and operate OpenStack cloud computing, storage, networking, and automation

*Foreword by Tim Bell, Infrastructure Manager, CERN*

Kevin Jackson  
Egle Sigler

Cody Bunch

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# Openstack Cloud Computing Cookbook By Jackson Kevin

## Packt Publishing2012 Paperback

**Kevin Jackson,Cody Bunch**

## **Openstack Cloud Computing Cookbook By Jackson Kevin Packt Publishing2012 Paperback:**

*OpenStack Cloud Computing Cookbook* Kevin Jackson, Cody Bunch, 2013 Over 100 recipes to successfully set up and manage your OpenStack cloud environments with complete coverage of Nova Swift Keystone Glance Horizon Neutron and Cinder

*OpenStack Cloud Computing Cookbook - Third Edition* Kevin Jackson, Cody Bunch, Egle Sigler, 2015-07-31 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'll delve into 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 will enable you to use and implement the latest features.

of OpenStack [Openstack Cloud Computing](#) Kevin Jackson,2017 **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

[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 **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

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Nova and Neutron About This Book 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 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 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 In Detail 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 s

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