



# Production Ready OpenStack - Recipes for Successful Environments

By Arthur Berezin



**Production Ready OpenStack - Recipes for Successful Environments** By Arthur Berezin

**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 use 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.

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### Editorial Review

About the Author

#### Arthur Berezin

Arthur Berezin is an active member of the OpenStack community and a hands-on OpenStacker since the early Essex release of OpenStack in 2012. During this time Arthur has built multiple production data centers based on OpenStack, helped dozens of organizations in planning their OpenStack environments, and in executing their software defined data center strategy. Prior to OpenStack, Arthur worked on KVM virtualization management project oVirt/RHEV and open source virtualization management technologies for production mission critical environments. Arthur is the Director of Product for Cloudify at GigaSpaces. He works on open-source and open-standard cloud application orchestration platform with cloud aware applications in mind that run natively on OpenStack and other private and public clouds. Prior to Cloudify, Arthur was a Senior Technical Product Manager for OpenStack at Red Hat, Product Owner of Keystone, Heat, Horizon, RHEL OpenStack Platform Installer (Foreman/Puppet based Project Staypuft), Packstack, and OpenStack High Availability. In the past 14 years, Arthur has served in various management and technical positions in the high-tech industry, including working as a founder and technical lead of a start up, a product line lead, Linux consultant, technical pre/post sales, and as a Linux Instructor, where he prepared students to pass the Red Hat Certified Engineer (RHCE) exams. You can find Arthur on Twitter as @ArthurBerezin or on his blog at [www.Berezins.com](http://www.Berezins.com).

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