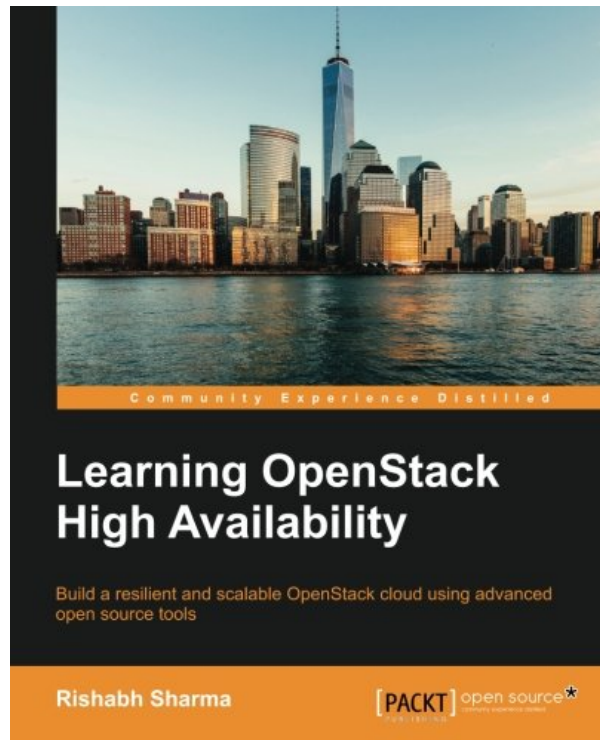
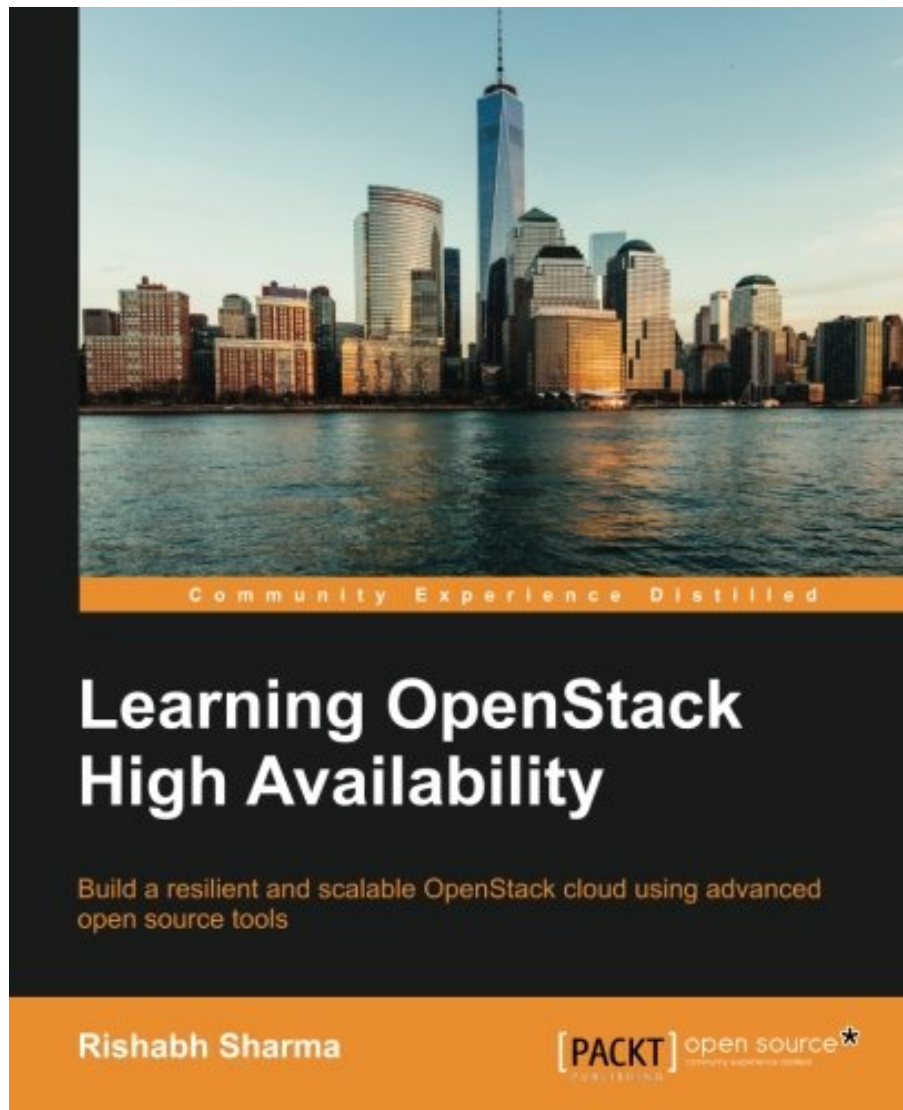


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LEARNING OPENSTACK HIGH AVAILABILITY BY RISHABH SHARMA PDF

Build a resilient and scalable OpenStack cloud, using advanced open source tools

About This Book

- Leverage the power of OpenStack to achieve high availability
- Get to grips with concepts such as Galera Cluster for Glance and Cinder, MariaDB, and validation
- Using clustering and high-availability solutions, this book provides a comprehensive plan for you to connect them with Red Hat Enterprise Linux OpenStack Platform

Who This Book Is For

This book is for OpenStack administrator, cloud administrator, cloud engineer, or cloud developer with some real time understanding of cloud computing, OpenStack and familiarity with Linux command is essential to start with this book.

What You Will Learn

- Grasp an understanding of what a highly available design should be using RTO, MTTR, and SLA concepts
- Set up and configure Galera and RabbitMQ clusters to build an efficient and reliable messaging cluster
- Get to know the advanced areas of network load balancing using configurations of HAproxy and keepalived
- Control active/passive OpenStack services by setting up a cluster for two or more nodes
- Gain a deeper understanding of how OpenStack services work in cooperation with a stateless mode to offer a scalable cloud framework
- Configure and run a distributed neutron installation based on openvswitch and different tunneling protocols
- Explore the rudimental configuration of different shared storage options and provide backup services of OpenStack
- Get acquainted with how an OpenStack-based cloud can survive various failures using network partitioning split brain, automatic failover, and geo-replication
- Distribute applications and services among availability zones in OpenStack to achieve maximum uptime and reliability of service
- Control and maintain a cloud with key concepts and tools to correctly measure and control the operations of an OpenStack cloud
- Get to know more about the relevant HA deployments of OpenStack with use cases

In Detail

OpenStack is one of the most popular open source cloud computing platforms, and it is used most of all for deploying Infrastructure as a Service (IaaS) solutions. Enabling high availability in OpenStack is a required skill for cloud administrators and cloud engineers in today's world.

This book helps you to achieve high availability and resiliency to OpenStack. This means clustering, fencing, load-balancing, distributed networking, leveraging shared storage, automatic failover, and replication. We start with a basic understanding of what a highly available design is meant to achieve in OpenStack and various ways to achieve high availability in OpenStack through simple step-by-step procedures.

Through hands-on examples, you will develop a solid knowledge of horizontally-scalable, fault-resistant, and highly-available OpenStack clusters and will be able to apply the techniques from this book in your day-to-day projects. This book also sheds light on the principles of application design for high availability, and monitoring for high availability, with examples.

Style and approach

This is a step-by-step guide that uses clustering and high-availability solutions available in the market and provides a comprehensive plan to connect them with Red Hat Enterprise Linux OpenStack Platform to make you a competent OpenStack administrator.

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1 of 1 people found the following review helpful.

Excellent Book for setting up HA in OpenStack

By Srinivasan V

This book was really helpful to setup the HA(High Availability) in OpenStack. It contains detailed process involved for setting up the HA along with sample codes. The idea is to use this book as Lab Guide while

setting up the HA. I was able to understand some complex operations by walking through examples in this book. It will be a better guide for OpenStack engineers / consultants.

I will recommend my friends and colleagues to refer this book while setting up HA.

0 of 0 people found the following review helpful.

This book has all the right and relevant information (theory as well as practical) for any IT professional to easily grasp the h

By Pethuru Raj

High availability has been one of the prime non-functional requirements for cloud environments. Steadily mission-critical workloads are being modernized, hosted, and delivered from cloud environments and hence ensuring their availability all the time for guaranteeing business continuity and for substantially enhancing the quality of experience (QoE) is very paramount for boosting the confidence of business executives on the raging cloud idea. And on the other side, clouds are typically shared and used by multiple customers across and hence, there are possibilities for bringing down cloud systems through deliberate attempts, undetected and hidden system errors, misadventure by administrators, or by establishing and enforcing wrong policies. There are both internal and external issues that can lead to system slowdown and even to breakdown.

Thus designing high-availability IT systems is essential for worldwide enterprises to survive in the increasingly competitive market. As OpenStack is the highly synchronized platform for all kinds of clouds, IT experts, architects and developers ought to deftly leverage the intrinsic capabilities of OpenStack platform towards establishing and sustaining highly available clouds. This book has all the right and relevant information (theory as well as practical) for any IT professional to easily grasp the high-availability tips, techniques, and tools to proceed with the implementation with all the clarity and confidence. The author has chipped in a lot of useful and usable information in this book and I would strongly request worldwide cloud architects and consultants to pick a copy of this book to be sufficiently enriched and empowered to bring forth pioneering high-availability designs and architectures. '

0 of 0 people found the following review helpful.

Excellent book on OpenStack HA

By Amazon Customer

An excellent book on OpenStack HA for Cloud Engineers/ Architects to understand each component of OpenStack / HA/ HA-LB and how to undertake Openstack transformation project in their businesses, recommendation for technology enthusiasts and adopters

Rishab has kept content of this book very simple and detailed so to make every level of reader understand, book start with HA introduction, goes deep into load balancing to different methods to configure HA in given scenario, HA for Application and DB which give reader a good perspective of HA before taking you to Openstack world, an world of endless possibilities and collaborative innovation.

Here once again Rishab scores well with his Openstack knowledge, experience and hands on implementation snack to define, describe and make you understand different Projects of Openstack(Abstracted Components in Openstack), explain each of them well and integration of each of them with one other to work like charm.

HA Openstack services, Distributed Network are beautifully written to make one understand well to build Openstack in Enterprise ecosystem, getting on to storage and ceph for unified storage on commodity hardware is neatly described.

One of the best chapter is monitoring HA and Use cases, it give you more clarity on why Enterprises should think of Openstack for mainstreams implementation but also to unlock the true potential of Open Source and

adoption across industries.

Congratulations to Rishab on this book and all the very best for his up-coming education ventures.

Cheers>Anand

Enterprise Technology Orator & Choreographer.

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