Learning OpenStack High Availability

Rishabh Sharma

Learning OpenStack High Availability

Rishabh Sharma

Learning OpenStack High Availability Rishabh Sharma

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 Galeria 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.

Download Learning OpenStack High Availability ...pdf

Read Online Learning OpenStack High Availability ...pdf

Download and Read Free Online Learning OpenStack High Availability Rishabh Sharma

---

From reader reviews:

Benjamin Manno:

The book Learning OpenStack High Availability make one feel enjoy for your spare time. You need to use to make your capable far more increase. Book can for being your best friend when you getting tension or having big problem along with your subject. If you can make studying a book Learning OpenStack High Availability to be your habit, you can get more advantages, like add your capable, increase your knowledge about a few or all subjects. You are able to know everything if you like start and read a guide Learning OpenStack High Availability. Kinds of book are several. It means that, science reserve or encyclopedia or other folks. So , how do you think about this book?

James Vera:

Nowadays reading books are more than want or need but also work as a life style. This reading routine give you lot of advantages. The huge benefits you got of course the knowledge the actual information inside the book in which improve your knowledge and information. The info you get based on what kind of publication you read, if you want have more knowledge just go with education and learning books but if you want really feel happy read one with theme for entertaining for instance comic or novel. The particular Learning OpenStack High Availability is kind of book which is giving the reader unstable experience.

Roderick Grubb:

Learning OpenStack High Availability can be one of your starter books that are good idea. Many of us recommend that straight away because this e-book has good vocabulary that will increase your knowledge in words, easy to understand, bit entertaining but still delivering the information. The article author giving his/her effort that will put every word into joy arrangement in writing Learning OpenStack High Availability yet doesn't forget the main place, giving the reader the hottest and based confirm resource info that maybe you can be among it. This great information can certainly drawn you into completely new stage of crucial considering.

Andrew McConnell:

Reading a reserve make you to get more knowledge from this. You can take knowledge and information coming from a book. Book is written or printed or descriptive from each source that will filled update of news. On this modern era like at this point, many ways to get information are available for an individual. From media social including newspaper, magazines, science book, encyclopedia, reference book, book and comic. You can add your understanding by that book. Do you want to spend your spare time to open your book? Or just looking for the Learning OpenStack High Availability when you necessary it?

Download and Read Online Learning OpenStack High Availability Rishabh Sharma #9NFI4HRUOCS

Read Learning OpenStack High Availability by Rishabh Sharma for online ebook

Learning OpenStack High Availability by Rishabh Sharma Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning OpenStack High Availability by Rishabh Sharma books to read online.

Online Learning OpenStack High Availability by Rishabh Sharma ebook PDF download

Learning OpenStack High Availability by Rishabh Sharma Doc

Learning OpenStack High Availability by Rishabh Sharma Mobipocket

Learning OpenStack High Availability by Rishabh Sharma EPub