

Ceph Cookbook

By Karan Singh

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Ceph Cookbook By Karan Singh

Over 100 effective recipes to help you design, implement, and manage the software-defined and massively scalable Ceph storage system

About This Book

- Implement a Ceph cluster successfully and gain deep insights into its best practices
- Harness the abilities of experienced storage administrators and architects, and run your own software-defined storage system
- This comprehensive, step-by-step guide will show you how to build and manage Ceph storage in production environment

Who This Book Is For

This book is aimed at storage and cloud system engineers, system administrators, and technical architects who are interested in building software-defined storage solutions to power their cloud and virtual infrastructure. If you have basic knowledge of GNU/Linux and storage systems, with no experience of software defined storage solutions and Ceph, but eager to learn this book is for you.

What You Will Learn

- Understand, install, configure, and manage the Ceph storage system
- Get to grips with performance tuning and benchmarking, and gain practical tips to run Ceph in production
- Integrate Ceph with OpenStack Cinder, Glance, and nova components
- Deep dive into Ceph object storage, including s3, swift, and keystone integration
- Build a Dropbox-like file sync and share service and Ceph federated gateway setup
- Gain hands-on experience with Calamari and VSM for cluster monitoring
- Familiarize yourself with Ceph operations such as maintenance, monitoring, and troubleshooting
- Understand advanced topics including erasure coding, CRUSH map, cache

pool, and system maintenance

In Detail

Ceph is a unified, distributed storage system designed for excellent performance, reliability, and scalability. This cutting-edge technology has been transforming the storage industry, and is evolving rapidly as a leader in software-defined storage space, extending full support to cloud platforms such as Openstack and Cloudstack, including virtualization platforms. It is the most popular storage backend for Openstack, public, and private clouds, so is the first choice for a storage solution. Ceph is backed by RedHat and is developed by a thriving open source community of individual developers as well as several companies across the globe.

This book takes you from a basic knowledge of Ceph to an expert understanding of the most advanced features, walking you through building up a production-grade Ceph storage cluster and helping you develop all the skills you need to plan, deploy, and effectively manage your Ceph cluster. Beginning with the basics, you'll create a Ceph cluster, followed by block, object, and file storage provisioning. Next, you'll get a step-by-step tutorial on integrating it with OpenStack and building a Dropbox-like object storage solution. We'll also take a look at federated architecture and CephFS, and you'll dive into Calamari and VSM for monitoring the Ceph environment. You'll develop expert knowledge on troubleshooting and benchmarking your Ceph storage cluster. Finally, you'll get to grips with the best practices to operate Ceph in a production environment.

Style and approach

This step-by-step guide is filled with practical tutorials, making complex scenarios easy to understand.

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Editorial Review

About the Author

Karan Singh

Karan Singh is an IT expert and tech evangelist, living with his beautiful wife, Monika, in Finland. He holds a bachelor's degree, with honors, in computer science, and a master's degree in system engineering from BITS, Pilani. Apart from this, he is a certified professional for technologies such as OpenStack, NetApp, Oracle Solaris, and Linux. Karan is currently working as a System Specialist of Storage and Cloud, for CSC – IT Center for Science Ltd., focusing all his energies on developing IaaS cloud solutions based on OpenStack and Ceph, and building economic multi-petabyte storage systems using Ceph. Karan possesses a rich skill set and has strong work experience in a variety of storage solutions, cloud technologies, automation tools and Unix systems. He is also the author of the very first book on Ceph, titled Learning Ceph, published in 2015. Karan devotes a part of his time to R&D and learning new technologies. When not working on Ceph and OpenStack, Karan can be found working with emerging technologies or automating stuffs. He loves writing about technologies and is an avid blogger at www.ksingh.co.in. You can reach him on Twitter @karansingh010, or by e-mail at karan_singh1@live.com.

Users Review

From reader reviews:

Dorothy Wild:

Here thing why this Ceph Cookbook are different and dependable to be yours. First of all reading a book is good but it depends in the content from it which is the content is as delicious as food or not. Ceph Cookbook giving you information deeper since different ways, you can find any book out there but there is no book that similar with Ceph Cookbook. It gives you thrill looking at journey, its open up your personal eyes about the thing that will happened in the world which is maybe can be happened around you. It is possible to bring everywhere like in playground, café, or even in your way home by train. In case you are having difficulties in bringing the published book maybe the form of Ceph Cookbook in e-book can be your alternate.

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Debbie Clark:

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