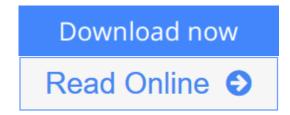# Learning Ceph

By Karan Singh

Learning Ceph By Karan Singh

A practical guide to designing, implementing, and managing your software-defined, massively scalable Ceph storage system

About This Book

- Learn how to unleash the power of Ceph and solve all your storage issues
- A comprehensive guide to developing and integrating Ceph with practical tutorials
- Get started with the essential information needed to implement a Ceph cluster

Who This Book Is For

If you already have basic knowledge of GNU/Linux and storage systems, but have no experience of software-defined storage solutions and Ceph, and are eager to learn about it, this is the book for you. If you are looking for your next career jump as a Ceph administrator, this book is also ideal for you.

What You Will Learn

- Understand the limitations of existing systems and the need to use Ceph as a storage solution
- Get to grips with Ceph's architecture and discover the different components of Ceph
- Perform instant deployment and testing of Ceph within a VirtualBox environment
- Familiarize yourself with Ceph operations such as maintenance, monitoring, and troubleshooting
- Implement storage provisioning in the form of Ceph's block, object, and filesystem
- Integrate Ceph with OpenStack Cinder and Glance components
- Discover advance topics in Ceph, including erasure coding, CRUSH map, and performance tuning, and learn best practices for your Ceph cluster

In Detail

Ceph is an open source, software-defined storage solution, which runs on commodity hardware to provide exabyte-level scalability. It is well known to be a highly reliable storage system that has no single point of failure.

This book will give you all the skills you need to plan, deploy, and effectively manage your Ceph cluster, guiding you through an overview of Ceph's technology, architecture, and components. With a step-by-step, tutorial-style explanation of the deployment of each Ceph component, the book will take you through Ceph storage provisioning and integration with OpenStack.

You will then discover how to deploy and set up your Ceph cluster, discovering the various components and why we need them. This book takes you from a basic level of knowledge in Ceph to an expert understanding of its most advanced features.

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Editorial Review

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Karan Singh is a curious IT expert and an overall tech enthusiast living with his beautiful wife, Monika, in Espoo, Finland. He holds a bachelor's (honors) degree in computer science and a master's degree in system engineering from BITS Pilani, India. In addition to this, he is a certified professional for technologies such as OpenStack, NetApp, and Oracle Solaris. Karan is currently working as a system specialist of storage and platform for CSC – IT Center for Science Ltd. in Finland. He is actively involved in providing IaaS cloud solutions based on OpenStack and Ceph Storage at his workplace and has been building economic multipetabyte storage solutions using Ceph. Karan possesses extensive system administration skills and has excellent working experience on a variety of Unix environments, backup, enterprise storage systems, and cloud platforms. When not working on Ceph and OpenStack, Karan can be found working with technologies such as Ansible, Docker, Hadoop, IoT, and other cloud-related areas. He aims to get a PhD in cloud computing and big data and wants to learn more about these technologies. He is an avid blogger at http://karan-mj.blogspot.fi/. You can reach him on Twitter as @karansingh010 and Ceph and OpenStack IRC channels as ksingh. You can also e-mail him at karan_singh1@live.com.

Users Review

From reader reviews:

Luis Garcia:

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