



Ceph for OpenStack H8Q16AAE

HPE course number	H8Q16AAE
Course length	1 hour
Delivery mode	ILT/VILT
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This web-based training provides you with overview of the Ceph storage system and information on installing Ceph Firefly 0.80.7 with HPE Helion OpenStack 1.1. You will learn about Ceph design, architecture and how does Ceph handle data. Training will cover at the high level how does Ceph integrates with HPE Helion OpenStack 1.1 and will provide you with the installation steps overview.

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Audience

- This course is designed as introduction to Ceph with HPE Helion OpenStack for System Administrators, Technical Consultants and Storage architects

Prerequisites

The following skills are recommended to attend this training:

- Experience in Linux System Administration
- Experience in OpenStack Installation and Configuration
- Understanding virtualization concepts
- Understanding networking concepts

Course objectives

After completing this course, students should be able to:

- Understand what is Ceph and what are the benefits of using Ceph's unified storage functionality
- Explain Ceph's design principles and technologies behind it's functionality
- Understand the way Ceph handles data

- Perform the installation of Ceph in HPE Helion OpenStack environment
- Understand Ceph Logical Architecture
- Understand Ceph High Availability features
- Understand the process of Ceph installation with HPE Helion OpenStack 1.1

Benefits to you

- Attendees will get the introduction to technical features of distributed object storage based on Ceph, and overview on Ceph installation with HPE Helion OpenStack 1.1

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: What is Ceph?

Module 2: Benefits of using Ceph

Module 3: Ceph Releases overview

Module 4: Ceph design principles

Module 5: Ceph as software-defined storage

Module 6: How Ceph stores data

Module 7: Ceph clients

Module 8: Ceph data access

Module 9: Ceph object storage

Module 10: RADOS Block Device

Module 11: Distributed Object Storage

Module 12: Ceph scalability and performance

Module 13: Ceph logical architecture

Module 14: Ceph maps

Module 15: Ceph High Availability: disk redundancy, data replication, hardware resiliency, HA monitors

Module 16: Maintaining data consistency

Module 17: HPE Helion OpenStack VM access to Ceph

Module 18: Ceph interoperability with Glance, Cinder and Nova

Module 19: Ceph installation and configuration overview

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