



# Block Storage in OpenStack using Cinder H4S73S

<b>HPE course number</b>	H4S73S
<b>Course length</b>	1 day
<b>Delivery mode</b>	ILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
<b>View related courses</b>	<a href="#">View now</a>

This one-day course will take students through an in depth look at the OpenStack® Block Storage service Cinder. The result will be the skills to design and build a resilient and scalable extensible block storage control environment within an OpenStack® environment. The students will get hands-on lab experience of many of the course topics in a dedicated, pre-built OpenStack® environment.

## Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training\*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services\*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

## Audience

- Storage Administrators
- Storage Architects
- Architects
- Sales Engineers
- Technical Marketing staff

- The architecture of resilient block storage management within OpenStack®
- Understand the extensibility of block storage management in OpenStack®
- The installation and configuration of the various components
- How to troubleshoot block storage in OpenStack®

## Prerequisites

Attendance of, or the equivalent skills:

- OpenStack Foundations (H6C68S)
- Linux Fundamentals (U8583S)
- Cloud Overview (HK917AAE)

## Benefits to you

- Gain a thorough understanding of OpenStack® block storage management using Cinder
- Be confident when designing resilient and scalable block storage implementations within OpenStack® using Cinder
- Be efficient when troubleshooting block storage issues in an OpenStack® environment

## Course objectives

At the conclusion of the course, you should be able to:

- Understand the OpenStack® block storage components and how they work together

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

## Detailed course outline

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<b>Module 1: Course overview</b>	<ul style="list-style-type: none"><li>• Set out the course objectives</li></ul>
<b>Module 2: Cinder Overview and Installation</b>	<ul style="list-style-type: none"><li>• What is Cinder</li><li>• Storage Types</li><li>• Features and functions of Cinder</li><li>• Installing Cinder</li><li>• Using Cinder</li><li>• Managing Quotas</li></ul>
<b>Module 3: Cinder and multiple back ends</b>	<ul style="list-style-type: none"><li>• Working with multiple back ends</li><li>• Detail on volume types</li><li>• Configuring multiple back ends</li><li>• The Cinder scheduler</li><li>• Setting Quality of Service</li><li>• Migrating volumes</li></ul>
<b>Module 4: Troubleshooting Cinder</b>	<ul style="list-style-type: none"><li>• Study the volume creation process</li><li>• Look at the Cinder Services</li><li>• Locate Cinder log files</li><li>• Trace target details through to instances</li><li>• Look at a Cinder oriented network implementation</li><li>• Undertake a challenge lab</li></ul>

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