



Red Hat OpenStack Administration – (CL210)

Course overview

Through hands-on labs, students will explore manually installing each service of Red Hat Enterprise Linux OpenStack® Platform, and will also look at the future plans of the OpenStack development community.

This course can also help you prepare for the Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210).

Audience and prerequisites

- Linux system administrators and cloud administrators interested in, or responsible for, maintaining a private cloud
- Red Hat Certified System Administrator (RHCSA) or requisite level of knowledge highly recommended

Prerequisites for this course

- RHCSA certification or equivalent knowledge and experience

Outline for this course

Red Hat Enterprise Linux OpenStack Platform architecture

- Understand Red Hat Enterprise Linux OpenStack Platform features and terminology.

Red Hat Enterprise Linux OpenStack Platform installation

- Deploy Red Hat Enterprise Linux OpenStack Platform using packstack.
- Create an instance with the Horizon web interface.

RabbitMQ message broker

- Install and verify RabbitMQ message broker service.
- Troubleshoot RabbitMQ message broker.

Keystone identity service

- Install, configure, and use the Keystone authentication services.

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Swift object storage service

- Install, configure, and use the Swift object storage service.

Glance image service

- Install and use the Glance image service.

Cinder block storage service

- Install the Cinder block storage service.
- Manage Cinder volumes.

Networking service

- Install, configure, and manage Red Hat Enterprise Linux Open Stack Platform networking service.

Nova compute and controller services

- Install and troubleshoot Nova compute and controller services.
- Deploy an instance from the command line.

Implement an additional compute node

- Learn to add and remove additional Nova compute nodes.
- Launch an instance to verify the new compute nodes.

Heat orchestration service

- Install and troubleshoot the Heat orchestration service.
- Launch a stack using preconfigured templates.

Ceilometer metering service

- Install and manage the ceilometer metering service.

The future of the OpenStack development community

Learn about the future of OpenStack.

Comprehensive review

Review the installation and management of Red Hat Enterprise Linux OpenStack Platform.