



Red Hat OpenStack Administration I (CL110)

In association with :  **redhat.**



DESCRIPTION:

Course overview

This course will teach students to install a proof-of-concept and configure, use, and maintain Red Hat OpenStack Platform. The focus on this course will be managing OpenStack using the Horizon dashboard and the command-line interface and managing instances.

Course content summary

- Launch an instance
- Manage projects, quotas, and users
- Manage networks, subnets, routers, and floating IP addresses
- Create and manage block and object storage in the Openstack framework
- Customize instances with cloud-init
- Deploy scalable stacks
- Deploy Red Hat OpenStack Platform using PackStack

To help prepare students for the Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210), the following competencies are covered in this course:

- Install and configure Red Hat OpenStack Platform (using PackStack)
- Manage users, projects, flavors, roles, images, networking, and block storage
- Set quotas
- Configure images at instantiation

To learn more competencies to pass the Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210), take the next step in the OpenStack training path with Red Hat OpenStack Administration II (CL210).

AUDIENCE AND PREREQUISITES:

Audience and prerequisites

Linux system administrators and cloud administrators interested in, or responsible for, maintaining a private cloud.

Prerequisites for this course

Red Hat Certified System Administrator (RHCSA[®]) in Red Hat Enterprise Linux[®] certification or equivalent experience

OUTLINE:

Outline for this course

Course introduction

Introduce and review the course.

Launch an instance

Launch an instance and describe the OpenStack architecture and use cases.

Organize people and resources

Manage projects, users, roles, and quotas.

Describe cloud computing

Describe the changes in technology and processes for cloud computing

Manage Linux networks

Manage Linux networks and bridges.

Prepare and deploy an internal instance

Manage images, flavors, and private networks in preparation for launching an internal instance and launch and verify an internal instance.

Manage block storage

Manage ephemeral and persistent block storage.

Manage object storage

Manage object storage.

Prepare and deploy an external instance

Manage external networks and security in preparation for launching an external instance and launch and verify an external instance.

Customize instances

Customize an instance with cloud-init.

Deploying scalable stacks

Deploy a stack and configure autoscaling.

Install OpenStack

Install an OpenStack proof of concept using Packstack.

Comprehensive review of Red Hat OpenStack Administration I

Review tasks in the Red Hat OpenStack Administration I course.

OUTCOMES:

Impact of this training

Impact on the organization

This course is intended to develop the skills needed to manage a private cloud. A private cloud can reduce costs through fine-grained resource control, simplifying regulatory compliance and permitting easier integration with legacy systems.

Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

As a result of attending this course, students should be able to perform basic administration tasks in Red Hat OpenStack Platform. Students should be able to demonstrate the following skills:

- Deploy a Red Hat OpenStack Platform proof of concept environment
- Manage software-defined networks, subnets, routers, and floating IP addresses

- Manage images and flavors
- Provision virtual machine instances
- Manage security groups and rules
- Manage block and object storage
- Customize instances
- Create scalable stacks



Thank You

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