

## [CL110]: Red Hat OpenStack Administration I

Length : 5 Days  
Technology : Red Hat OpenStack Platform 10  
Delivery Method : Instructor-led (Classroom)

### Course Overview

This course will teach participants 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.

### Audience Profile

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

### At Course Completion

- Red Hat OpenStack Administration II (CL210)

Red Hat OpenStack Administration II (CL210) teaches system administrators how to implement a cloud-computing environment using Red Hat OpenStack Platform, including installation, configuration, and maintenance.

- Red Hat OpenStack Administration II with exam (CL211)

Red Hat OpenStack Administration II with exam (CL211) teaches system administrators how to implement a cloud-computing environment using Red Hat OpenStack Platform, including installation, configuration, and maintenance and then prove your skills, knowledge and abilities needed to create, configure, and manage private clouds using the Red Hat OpenStack Platform with Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210).

- Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210)

Prove your skills, knowledge and abilities needed to create, configure, and manage private clouds using the Red Hat OpenStack Platform with Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210).

To help prepare participants 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

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## Pre-Requisites

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

For candidates that have not earned their RHCSA, confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment.

## Course Outline

### Module 1: Course introduction

#### Lessons

- Introduce and review the course

### Module 2: Launch an instance

#### Lessons

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

### Module 3: Organize people and resources

#### Lessons

- Manage projects, users, roles, and quotas

### Module 4: Describe cloud computing

#### Lessons

- Describe the changes in technology and processes for cloud computing

### Module 5: Manage Linux networks

#### Lessons

- Manage Linux networks and bridges

### Module 6: Prepare and deploy an internal instance

#### Lessons

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

### Module 7: Manage block storage

#### Lessons

- Manage ephemeral and persistent block storage

### Module 8: Manage object storage

#### Lessons

- Manage object storage

### Module 9: Prepare and deploy an external instance

#### Lessons

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

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## **Module 10: Customize instances**

### **Lessons**

- Customize an instance with cloud-init

## **Module 11: Deploying scalable stacks**

### **Lessons**

- Deploy a stack and configure autoscaling

## **Module 12: Install OpenStack**

### **Lessons**

- Install an OpenStack proof of concept using Packstack

## **Module 13: Comprehensive review of Red Hat OpenStack Administration I**

### **Lessons**

- Review tasks in the Red Hat OpenStack Administration I course

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