

# RED HAT OPENSTACK ADMINISTRATION I: CORE OPERATIONS FOR DOMAIN OPERATORS (CL110)

Course Code: 4696

Red Hat OpenStack Administration I (CL110) is designed for system administrators who are intending to implement a cloud computing environment using Red Hat OpenStack Platform.

Designed for system administrators intending to implement a cloud computing environment using Red Enterprise Linux OpenStack Platform (RHEL-OSP), this course helps you discover how to install a proof-of-concept, configure, use, and maintain RHEL-OSP. Additionally, you will learn about these core services: identity (Keystone), block storage (Cinder), image (Glance), networking (Neutron), compute and controller (Nova), and dashboard (Horizon).

## What You'll Learn

This course will teach students to install a proof-of-concept and configure, use, and maintain Red Hat OpenStack Platform. The focus of 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) and Red Hat Certified System Administrator in Red Hat OpenStack exam (EX210K), 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, EX210K), take the next step in the OpenStack training path with Red Hat OpenStack Ad

## Who Needs to Attend

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

## Prerequisites

[Red Hat Certified System Administrator \(RHCSA<sup>®</sup>\) in Red Hat Enterprise Linux<sup>®</sup> certification](#) or equivalent experience

# RED HAT OPENSTACK ADMINISTRATION I: CORE OPERATIONS FOR DOMAIN OPERATORS (CL110)

Course Code: 4696

CLASSROOM LIVE

\$5,940 CAD

5 Day

## Classroom Live Outline

- 1. Course introduction**  
Introduce and review the course
- 2. Launch an instance**  
Launch an instance and describe the OpenStack architecture and use cases
- 3. Organize people and resources**  
Manage projects, users, roles, and quotas
- 4. Describe cloud computing**  
Describe the changes in technology and processes for cloud computing
- 5. Manage Linux networks**  
Manage Linux networks and bridges
- 6. 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
- 7. Manage block storage**  
Manage ephemeral and persistent block storage
- 8. Manage object storage**  
Manage object storage
- 9. 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
- 10. Customize instances**  
Customize an instance with cloud-init
- 11. Deploying scalable stacks**  
Deploy a stack and configure autoscaling
- 12. Install OpenStack**

Install an OpenStack proof of concept using Packstack

13. **Comprehensive review of Red Hat OpenStack Administration I**

Review tasks in the Red Hat OpenStack Administration I course.

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Course Code: 4696

VIRTUAL CLASSROOM LIVE

\$5,940 CAD

5 Day

## Virtual Classroom Live Outline

### 1. Course Introduction

### 2. Launching an Instance

- Launch an instance and describe the terminology and services used in OpenStack

### 3. Managing Projects and Users

- Manage projects and users using Horizon

### 4. Managing Project Quotas

- Manage project quotas using Horizon

### 5. Managing Flavors

- Manage flavors using Horizon

### 6. Managing Images

- Manage images using Horizon

### 7. Managing Networks

- Manage networks using Horizon

### 8. Managing Floating IP Addresses

- Manage networks using Horizon

### 9. Managing Block Storage

- Manage block storage using Horizon

### 10. Managing Security and Access

- Manage security and access to instances using Horizon

## **11. Managing Instances with Horizon**

- Manage instances using Horizon

## **12. Installing OpenStack**

- Install an OpenStack proof of concept using PackStack

## **13. Managing the Keystone Identity Service**

- Manage the Keystone identity service using the command-line interface

## **14. Preparing to Launch Instances with the Command-line Interface**

- Prepare to launch instances and manage instances using the command-line interface

## **15. Managing Instances with the Command-line Interface**

- Manage instances using the command-line interface

## **16. Managing Block Storage with the Command-line Interface**

- Manage block storage using the command-line interface

## **17. Comprehensive Review of Red Hat OpenStack Administration I**

- Review tasks in the Red Hat OpenStack Administration I course

May 19 - 23, 2025 | 10:30 AM - 6:30 PM EDT

Jul 21 - 25, 2025 | 10:30 AM - 6:30 PM EDT

Oct 20 - 24, 2025 | 10:30 AM - 6:30 PM EDT

# RED HAT OPENSTACK ADMINISTRATION I: CORE OPERATIONS FOR DOMAIN OPERATORS (CL110)

Course Code: 4696

ON-DEMAND

\$5,049 CAD

## On-Demand Outline

- 1. Course introduction**  
Introduce and review the course
- 2. Launch an instance**  
Launch an instance and describe the OpenStack architecture and use cases
- 3. Organize people and resources**  
Manage projects, users, roles, and quotas
- 4. Describe cloud computing**  
Describe the changes in technology and processes for cloud computing
- 5. Manage Linux networks**  
Manage Linux networks and bridges
- 6. Prepare and deploy an internal instance**  
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PRIVATE GROUP TRAINING

5 Day

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