

# Red Hat OpenStack Administration I CL110

## **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.

## 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.