

OpenStack

Course overview

Our Openstack course will cover Version 10.x of Openstack . We cover RHCSA track of Redhat Cloud , which make the candidates to aim further to become RHCE Cloud (CL 310) and then RHCA

In this course , we cover

Red Hat OpenStack Administration I (CL110)

Red Hat® OpenStack® Administration II (CL210)

Outline for this course – CL110 + CL 210 – RHCSA – Cloud

Red Hat® OpenStack® Administration I (CL110)

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.

Red Hat® OpenStack® Administration II (CL210)

Course introduction

Introduce and review the course.

Manage an enterprise OpenStack deployment

Manage the undercloud, the overcloud, and related services.

Manage internal OpenStack communication

Administer the Keystone identity service and the advanced message queuing protocol (AMQP) messaging service.

Build and customize images

Build and customize images.

Manage storage

Manage Ceph and Swift storage for OpenStack.

Manage resilient compute resources

Add compute nodes, manage shared storage, and perform live instance migration.

Manage and troubleshoot

Manage and troubleshoot virtual network infrastructure.

Manage resilient compute resources

Add compute nodes, manage shared storage, and perform live instance migration.

Troubleshoot OpenStack issues

Diagnose and troubleshoot OpenStack issues and services.

Monitor cloud metrics for autoscaling

Monitor and analyze cloud metrics for use in orchestration autoscaling.

Orchestrate deployments

Deploy Heat stacks that automatically scale.