redhat

RED HAT OPENSTACK ADMINISTRATION I CL110

Learn how to install, configure, use, and maintain Red Hat OpenStack Platform

COURSE DURATION : 5 DAYS
DATASHEET

COURSE CONTENT SUMMARY

- Launch an instance
- Manage projects, quotas, and users
- Manage networks, subnets, routers, and floatinvvg 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.

THIS COURSE IS BASED ON RED HAT OPENSTACK PLATFORM 10.

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.

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.

AUDIENCE

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

WAYS TO TRAIN/TEST

Red Hat offers a method of training that is convenient to you - classroom, online, or at your site.

COURSE OUTLINE

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.

ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

Learn more at redhat.com.

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.

AFTER THE COURSE

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).

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

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NORTH AMERICA	EUROPE, MIDDLE EAST,	ASIA PACIFIC	LATIN AMERICA
1 888 REDHAT1	AND AFRICA	+65 6490 4200	+54 11 4329 7300
www.redhat.com	00800 7334 2835	apac@redhat.com	info-latam@redhat.com
	europe@redhat.com		