Red Hat OpenStack Administration II: Day 2 Operations for Cloud Operators with exam («CL211»)

In this course you will learn to build advanced skills for performing Red Hat OpenStack Platform «Day 2» operations and management of hybrid cloud infrastructure.

Duration: 4 days
Price: 4'050.–

Content

Red Hat OpenStack Administration II: Day 2 Operations for Cloud Operators with exam (CL2110) is designed for cloud operators, service administrators, and automation engineers who operate and manage a full-featured hybrid and private cloud-computing environment using Red Hat OpenStack Platform. You will learn how to manage, monitor, troubleshoot, and scale a Red Hat OpenStack Platform infrastructure. This course focuses on using the OpenStack Client command-line user interface to configure metrics, policies, and architecture in order to support enterprise cloud applications and daily operations.

Course outline:

- Navigate the Red Hat OpenStack Platform architecture
  - Describe the undercloud and overcloud architecture and service components.
- Operate the control plane
  - Describe and manage the critical core services of the Red Hat OpenStack Platform control plane.
- Manage infrastructure security
  - Protect the Red Hat OpenStack Platform infrastructure by securing service component files and endpoints.
- Manage user security
  - Configure secure user privileges using domain-based identity management, scoped roles, and project organization.
- Manage application deployment resources
  - Create and manage the common, shared deployment resources including custom images, flavors, and metadata services.
- Manage storage
  - Describe and manage storage architecture and components, with an emphasis on Red Hat Ceph Storage back ends.
- Manage networking
  - Create, manage, and troubleshoot data center and virtual network infrastructure.
- Manage compute node operations
  - Describe the architecture and management processes for normal and hyperconverged compute nodes. Perform common operational tasks for compute nodes to support workload uptime and scaling.
- Monitor Red Hat OpenStack Platform operations
  - Describe the monitoring framework and architecture to gather, store, and use operational metrics.
- Automate cloud applications
  - Implement and deploy complex and scalable applications using automation technologies.
- Troubleshoot operations
  - Describe and practice the tools and methods for diagnosing and troubleshooting issues encountered during deployment and management operations.

- Comprehensive review
  - Review tasks from Red Hat OpenStack Platform Administration II: Day 2 Operations for Cloud Operators.

Key Learnings

- Managing overcloud service containerization technology
- Providing metrics for performance tuning and governance
- Monitoring and troubleshooting Open Virtual Networking (OVN) network flow
- Configuring Identity service using an external Red Hat IdM store
- Managing the core control plane, including Pacemaker
- Customizing images, with techniques for multiple use cases
- Managing block and object storage back-ends
- Managing compute nodes, including tuning and hyperconverged
- Troubleshooting Red Hat OpenStack Platform

Target audience

Cloud operators responsible for managing day-to-day operations and automation, as well as infrastructure architects responsible for or interested in maintaining large private or hybrid clouds

Requirements

Red Hat Certified Engineer (RHCE) qualification or equivalent experience is recommended. Attendees without RHCE or comparable certifications can determine the level of proficiency required by taking the free assessment test to learn if this offering matches their skills. In addition, successful completion or comparable experience of the following course is required:

- Red Hat OpenStack Administration I: Core Operations for Domain Operators («CL110»)

Certification

The Red Hat Certified Specialist in Cloud Infrastructure Exam (EX210) is included in this course.

Additional information

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-it-provider/red-hat/red-hat-open-stack/course-red-hat-openstack-administration-ii-day-2-operations-for-cloud-operators-with-exam