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Red Hat OpenStack Administration II: Day 2 Operations for Cloud Operators

Duration: 90 Days   Course Code: CL210   Delivery Method: E-learning

Overview:

Build advanced skills for performing Red Hat OpenStack Platform day 2 operations and management of hybrid cloud infrastructure
Red Hat OpenStack Administration II: Day 2 Operations for Cloud Operators (CL210) 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.
This course is based on Red Hat OpenStack version 16.1 and Red Hat Enterprise Linux version 8.2
Following course completion, you will receive a 45-day extended access to hands-on labs for any course that includes a virtual environment.

Note: This course is offered as a five day virtual class or self-paced. Durations may vary based on the delivery. For full course details, scheduling, and pricing, select your location then "get started" on the right hand menu.

e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Target Audience:

- Cloud operators responsible for managing daily operations and automation.
- Infrastructure architects interested in or responsible for maintaining a large-scale private or hybrid cloud.

Objectives:

- 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.

Prerequisites:

- Be a Red Hat Certified Engineer (RHCE), Red Hat Certified Specialist in Ansible Automation, or demonstrate equivalent experience.
- For candidates that have not earned an RHCE or equivalent, confirmation of the correct skill-set knowledge can be obtained by taking our free assessment to gauge whether this offering is the best fit for your skills.
- CL110 - Red Hat OpenStack Administration I: Core Operations for Domain Operators

Follow-on-Courses:

- CL260 - Red Hat Ceph Storage for OpenStack
- EX210 - Red Hat Certified System Administrator in Red Hat OpenStack Exam

Content:

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.

Additional Information:

Technology considerations
- There are no current special requirements or technical considerations.
- No BYOD support.
- No Internet access required.

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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