Red Hat OpenShift Administration III: Scaling Deployments in the Enterprise

Duration: 4 Days   Course Code: DO380   Delivery Method: Virtual Learning

Overview:

Red Hat OpenShift Administration II: High Availability teaches you how to build robust clusters that provide high availability and the ability to run large numbers of applications. You will learn about OpenShift integration with datacenter infrastructure such as load balancers, identity management, monitoring, proxies, and storage. You will also develop more troubleshooting and Day 2 operations skills in this course. This course is based on Red Hat® OpenShift Container Platform 3.6.

You will design an OpenShift HA cluster, then build and test it. You will use this cluster to examine more advanced topics in the administration and operation of a robust OpenShift cluster in the remainder of the course.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is designed for Linux® system administrators who want to deploy and manage a large-scale Red Hat® OpenShift Container Platform deployment in their datacenters.

Objectives:

- As a result of attending this course, you should be able to design, install, and configure a highly available and high-performance OpenShift cluster. You will learn how to adapt the OpenShift cluster to work with existing infrastructure, such as security and storage providers. You should be able to perform various Day 2 operational procedures intended to maintain an efficient OpenShift cluster. You should be able to demonstrate these skills:

- Design and install a highly available cluster.

- Provision persistent storage using dynamic allocation.

- Install the GlusterFS Container Native Storage solution on an OpenShift cluster.

- Enable log aggregation across the cluster.

- Perform diagnostics on the cluster.

- Back up and restore critical data for the cluster.

- Manage OpenShift and operating system resources to keep the cluster running efficiently.

- Configure the LDAP security provider.

- Describe and install the Open vSwitch multitenant software-defined networking provider.

Prerequisites:

- Be certified as a Red Hat Certified System Administrator, or demonstrate equivalent experience
- Recommended, but not required: be a Red Hat Certified Specialist in OpenShift Administration (EX280)

Content:

Design a highly available cluster	Use the advanced installation method to build an HA OpenShift cluster.	Manage system resources
Design an OpenShift cluster that supports high availability and resiliency.	Provision persistent storage	Manage operating system and cluster resources for optimal performance.
Prepare to install an HA cluster	Describe storage providers, configure a provider, create a storage class, and test the configuration.	Configure security providers
Configure the advanced installer and prepare the cluster environment for HA installation.	Enable log aggregation	Configure security providers and advanced security options.
Configure OpenShift to use custom certificates	Consolidate useful data for analysis by enabling the log aggregation feature.	Configure networking options
Configure the OpenShift cluster to use custom certificates.	Maintain an OpenShift cluster	Configure various advanced networking features and options.
Build an HA cluster	Perform recurring maintenance activities on an OpenShift cluster.	Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact us.

Additional Information:

Red Hat Learning Subscriptions:
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Further Information:

For More information, or to book your course, please call us on 0800/84.009

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