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Learning Style: Virtual Classroom

Technology: Red Hat

Difficulty: Intermediate

Course Duration: 5 Days

Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280VT)

About this course:

The application platform, OpenShift is an essential and beneficial tool for the encapsulation procedure for different applications. This application allows for an efficient encapsulation and allows organizations to regulate the container installations and applications scaling. This is done by using Kubernetes. OpenShift proves as a good source to manage applications, as it provides a built-in environment for applications. The tool takes support of Kubernetes which enables it to uphold and support the DevOps principles. The program provides feasibilities like short time requirement for marketing, infrastructure as code (IaC), continuous integration (CI), and continuous delivery (CD). This course has been designed by keeping all these factors in mind and provides you with the opportunity of gaining expertise regarding the deployment and management of the Red Hat® OpenShift® Container Platform. The course is designed as lab-based so you will have a great amount of opportunity to gain practical experience of your learning.

Learning Objectives:

The course has the following learning objectives:

- Learning of installing the OpenShift Container Platform cluster
- Setting up and regulating masters and nodes
- Protecting OpenShift
- Regulating access to resources on OpenShift
- Overseeing and obtaining metrics on OpenShift
- Installing applications on OpenShift Platform Container using Source-to-image (S2I)
- Regulating storage issues on OpenShift

Audience:

This course will be highly useful for students who are system administrators, system architects, and developers who want to learn from the start about the installation and setting up of Red Hat OpenShift Container Platform

Requirements:

The course requires you to have certification of Red Hat Certified System Administrator, or you must be having relevant experience in Red Hat Enterprise Linux system administration to make up for the certification. Furthermore, you must have knowledge to the introduction to the definition and working of Containers, Kubernetes, and Red Hat OpenShift (DO180), or must be having relevant experience in containers, Kubernetes, and OpenShift fundamentals.

Course Outline:

Introduction to Red Hat OpenShift Container Platform

List the features and describe the architecture of the Openshift Container Platform.

Install OpenShift Container Platform

Install OpenShift and configure the cluster.

Explore OpenShift networking concepts

Describe and explore OpenShift networking concepts.

Execute commands

Execute commands using the command-line interface.

Manage OpenShift resources

Control access to OpenShift resources.

Allocate persistent storage

Implement persistent storage.

Manage application deployments

Manipulate resources to manage deployed applications.

Metrics subsystem

Install and configure the metrics-gathering system.

Manage and monitor

Manage and monitor OpenShift resources and software.

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