Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications

Duration: 4 Days **Course Code: DO288** **Version: 4.12** **Delivery Method: Virtual Learning**

Overview:

Design, build, and deploy containerized applications on Red Hat OpenShift
Red Hat OpenShift Developer II: Building Kubernetes Applications (DO288) teaches you how to design, build, and deploy containerized software applications on an OpenShift cluster
Whether you are migrating existing applications or writing container-native applications, you will learn how to boost developer productivity powered by Red Hat® OpenShift Container Platform, a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes.
The skills you learn in this course can be applied using all versions of Red Hat OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift (ARO), and Red Hat OpenShift Container Platform.
This course is based on Red Hat OpenShift 4.12.
Note: This course is five days. 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.

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:

- Enterprise application developers
- DevOps site reliability engineers

Objectives:

- Features for developers in the Red Hat OpenShift web console
- Building and publishing container images for Red Hat OpenShift
- Managing container deployments on Red Hat OpenShift
- Create and deploy multi-container applications on Red Hat OpenShift
- Deploy multi-container applications using Helm Charts and Kustomize
- Create health checks to monitor and improve application reliability
- Creating CI/CD Workflows using Red Hat OpenShift Pipelines

Prerequisites:

- DO188 - Red Hat OpenShift Development I: Introduction to Containers with Podman

Follow-on-Courses:

- Introduction to Red Hat OpenShift Service on AWS (DO120)
- Introduction to Microsoft Azure Red Hat OpenShift (DO121)
- DO244R - Developing Applications with Red Hat OpenShift Serverless and Knative
- EX288 - Certified Specialist in OpenShift Application Development exam
- DO328 - Building Resilient Microservices with Red Hat Service Mesh
- DO378 - Red Hat Cloud-native Microservices Development with Quarkus

Content:

Red Hat OpenShift Container Platform for Developers

Define the Red Hat OpenShift architecture, concepts and terminology, and set up the developer environment.

Deploying Simple Applications

Deploy simple applications by using the Red Hat OpenShift web console and command-line tools.

Building and Publishing Container Images

Build, deploy and manage the lifecycle of container images by using a container registry.

Managing Red Hat OpenShift Builds

Describe the Red Hat OpenShift build process and build container images.

Managing Red Hat OpenShift Deployments

Describe the different Red Hat OpenShift deployment strategies and how to monitor the health of applications.

Deploying Multi-container Applications

Deploy multi-container applications by using Red Hat OpenShift templates, Helm charts, and Kustomize.

Continuous Deployment using Red Hat OpenShift Pipelines

Implement CI/CD workflows by using Red Hat OpenShift Pipelines.

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, contact one of our training specialists.

Additional Information:

Technology considerations

This course uses a lab environment provisioned in the Red Hat Online Learning (ROL) cloud. Internet access is required to run the exercises and labs.

Further Information:

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

info@globalknowledge.be

www.globalknowledge.com/en-be/