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Learning Style: Virtual Classroom

Technology: Red Hat

Difficulty: Intermediate

Course Duration: 1 Day

Introduction to OpenShift Applications (DO101VT)

About this course:

A developer-focused introduction to OpenShift application building, deployment, scaling, and troubleshooting.

Red Hat® OpenShift® Container Platform is a containerized application platform that allows enterprises to accelerate and streamline application development, delivery, and deployment on-premise or in the cloud. As OpenShift and Kubernetes

continue to become widely adopted, developers are increasingly required to understand how to develop, build, and deploy applications with a containerized application platform. While some developers are interested in managing the underlying infrastructure, most developers want to focus on developing applications and using OpenShift for its simple building, deployment, and scaling capabilities.

Course Objective:

- Manage application source code with Git
- Develop applications with VSCode
- Deploy an application to OpenShift
- Update an application
- Configure application secrets
- Scale an application
- Troubleshoot and fixing an application

Audience:

- This course is a low prerequisite on-ramp for OpenShift development. Many developers want to find ways to use OpenShift in their organization and have heard of its many benefits, but they lack the necessary skills or interest in approaching OpenShift from a low-level, bottom-up oriented approach. Most developers are instead focused on finding ways to write and deploy applications faster and easier. Students who are interested in learning more about the underlying OpenShift infrastructure and have strong RHCSA-level skills should instead start with Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180).

Prerequisite:

- This course is a bring-your-own-device training.
- You must be able to install software onto your device.
- Internet access is required.

Recommended training

Students should have a strong background in application development and object oriented programming. If not, it is recommended to first take Red Hat Application Development I: Programming in Java EE (JB183).

Course Outline:

Configure a Cloud Application Developer Environment

Configure a developer environment with a modern integrated developer environment and version control.

Deploy Applications to Red Hat OpenShift Container Platform

Deploy an application to OpenShift.

Configure Application builds in OpenShift

Manage application builds in Red Hat OpenShift Container Platform.

Scale Applications in OpenShift

Scale and test an application with Red Hat OpenShift Container Platform.

Troubleshoot Applications in OpenShift

Identify and resolve common problems in Red Hat OpenShift Container Platform

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