

## **DO180: Introduction to Containers, Kubernetes, and Red Hat OpenShift**

Course Code: DO180

Duration: 3 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

### **OVERVIEW**

Introduction to building and managing containers for deployment on a Kubernetes and OpenShift 4 cluster.

Red Hat OpenShift I: Containers & Kubernetes (DO180) introduces students to building and managing containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat OpenShift Container Platform needed for multiple roles, including developers, administrators and site reliability engineers.

This course is based on Red Hat® Enterprise Linux® 8.2 and OpenShift® Container Platform 4.6.

### **SKILLS COVERED**

- Container and OpenShift architecture
- Creating containerized services
- Managing containers and container images
- Creating custom container images
- Deploying containerized applications on OpenShift
- Deploying multi-container applications

### **WHO SHOULD ATTEND?**

- Developers who wish to containerize software applications

- Administrators who are new to container technology and container orchestration
- Architects who are considering using container technologies in software architectures
- Site reliability engineers who are considering using Kubernetes and Red Hat OpenShift

### **PREREQUISITES**

- Take our free assessment to gauge whether this offering is the best fit for your skills.
- Experience in the use of a Linux terminal session, issuing operating system commands, and familiarity with shell scripting. A Red Hat Certified System Administrator (RHCSA) certification is recommended but not required.
- Some experience with web application architectures and their corresponding technologies.

### **MODULES**

#### **Module 1: Configure a Cloud Application Developer Environment**

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

#### **Module 2: Deploy Applications to Red Hat OpenShift Container Platform**

- Deploy an application to OpenShift.

#### **Module 3: Configure Application Builds in OpenShift**

- Manage application builds in Red Hat OpenShift Container Platform.

**Module 4: Scale Applications in OpenShift**

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

**Module 5: Troubleshoot Applications in OpenShift**

- Identify and resolve common problems in Red Hat OpenShift Container Platform

**END OF PAGE**