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Learning Style: Virtual Classroom

Technology: Red Hat

Difficulty: Intermediate

Course Duration: 5 Days

## Red Hat OpenShift Administration I: Operating a Production Cluster (DO180VT)



### About this course:

As a result of attending this class, students should be able to containerize simple software applications and services; deploy them with Docker, Kubernetes, and Red Hat OpenShift; test the containerized version; and troubleshoot issues with deployment.

One of the key tenets of the DevOps movement is continuous integration and continuous deployment. Containers have become a key technology for the configuration and deployment of applications and microservices. Kubernetes is a

container orchestration platform that provides foundational services in Red Hat OpenShift Container Platform.

The average salary of a Red Hat Software Engineer salary is **\$87,078** per year.

## **Course Objective:**

- Understand container, Docker, and Red Hat OpenShift architecture.
- Create containerized services.
- Manage containers and container images.
- Create custom container images.
- Deploy containerized applications on Red Hat OpenShift.
- Deploy multi-container applications.

## **Audience:**

- 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

## **Prerequisite:**

- Be able to use a Linux terminal session and issue operating system commands
- Be a Red Hat Certified System Administrator (RHCSA) , or demonstrate equivalent experience
- Have experience with web application architectures and their corresponding technologies

You learn about the benefits of containers, Docker, Kubernetes, and Red Hat OpenShift with our free offering, *Deploying Containerized Applications Technical Overview (DO080)*.

## **Course Outline:**

### **Course introduction**

Introduce and review the course.

### **Get started with container technology**

Describe how software can run in containers orchestrated by Red Hat OpenShift Container Platform.

### **Create containerized services**

Provision a server using container technology.

## Manage containers

Manipulate pre-built container images to create and manage containerized services.

## Manage container images

Govern the life cycle of a container image from creation to deletion.

## Create custom container images

Design and code a Docker file to build a custom container image.

## Deploy containerized applications on Red Hat OpenShift

Deploy single container applications on Red Hat OpenShift Container Platform.

## Deploy multi-container applications

Deploy applications that are containerized using multiple container images.

## Troubleshoot containerized applications

Troubleshoot a containerized application deployed on Red Hat OpenShift.

## Comprehensive review of Introduction to Container, Kubernetes, and Red Hat OpenShift

Demonstrate how to containerize a software application, test it with Docker, and deploy it on a Red Hat OpenShift cluster.

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