

# Red Hat OpenShift I: Containers & Kubernetes

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<b>Code:</b>	DO180
<b>Length:</b>	5 days
<b>URL:</b>	<a href="#">View Online</a>

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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 OpenShift<sup>®</sup> Container Platform 4.10.

## Skills Gained

- 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 Can Benefit

- Developers who want to containerize software applications.
- Administrators who are new to container technology and container orchestration.
- Architects who are looking to use container technologies in software architectures.
- Site Reliability Engineers who want to support their technology infrastructure using Kubernetes and OpenShift.

## Prerequisites

- 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.

# Course Details

## Course Outline

- Introducing container technology
  - Creating containerized services
  - Managing containers
  - Managing container images
  - Creating custom container images
  - Deploying containerized applications on OpenShift
  - Deploying multi-container applications
  - Troubleshooting containerized applications
  - Comprehensive review of introduction to container, Kubernetes, and Red Hat OpenShift
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