

# Red Hat OpenShift Development II: Containerizing Applications with Exam («DO289»)

By attending this course, you will be able to design, develop, and deploy containerized applications in an OpenShift cluster.

**Duration:** 4 days

**Price:** 4'000.–

## Content

Learn how to further increase developer productivity with Red Hat OpenShift Container Platform. It is a containerized application platform that allows organizations to manage container deployments and scale their applications with Kubernetes – whether you are writing container-native applications or migrating existing brownfield applications.

Deploy and manage applications in an OpenShift cluster.

Deploy applications to an OpenShift cluster using a variety of packaging methods and manage their resources

- Develop containerized applications for OpenShift

Select a containerization method for an application and create a container to run in an OpenShift cluster

- Publish enterprise-ready container images

Create an enterprise registry and publish container images to it

- Application development management

Describe the OpenShift build process and how to execute and manage builds

- Customize source-to-image builds

Customize an existing S2I base image and create a new one

- Build applications from OpenShift templates

Describe elements of an OpenShift template and create a template with multiple containers

- Managing application deployments

Monitor application health and use different deployment strategies for cloudnative applications

- Implementing CI/CD pipelines in OpenShift

Develop and deploy Jenkins pipelines for CI/CD (continuous integration/continuous deployment) with OpenShift

- Building cloudbnative applications on OpenShift

Develop and deploy cloudbnative applications on OpenShift

## Key Learnings

- Application build management and execution
- Customization of an existing source-to-image base image
- Creation of an OpenShift template
- Creation of health checks to monitor and improve application reliability
- Creation and deployment of a Jenkins pipeline for CI/CD (continuous integration/continuous deployment)
- Creation and deployment of cloudbnative applications for OpenShift

## Target audience

This course is intended for enterprise application developers and functional safety engineers

## Requirements

Successful completion of the Red Hat OpenShift I: Containers & Kubernetes (DO180) course or similar knowledge. Red Hat Certified System Administrator certification (or higher) is recommended for navigating and using the command line, but is not required.

- [Getting Started with Linux Fundamentals \(«RH104»\)](#)
- [Red Hat OpenShift Admin I: Operating a Production Cluster \(«DO180»\)](#)

## Certification

Certification – Pass EX288

[Red Hat Certified Specialist in OpenShift Application Development](#)

## Any questions?

We are happy to advise you on +41 44 447 21 21 or [info@digicomp.ch](mailto:info@digicomp.ch). You can find detailed information about dates on [www.digicomp.ch/courses-digital-transformation-technologies/cloud/course-red-hat-openshift-development-ii-containerizing-applications-with-exam](https://www.digicomp.ch/courses-digital-transformation-technologies/cloud/course-red-hat-openshift-development-ii-containerizing-applications-with-exam)