

Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications with Exam (EX288) (DO289)

ID DO289 **Price** 4,057.— €excl. tax **Duration** 4 days

Course Overview

Design, build, and deploy containerized applications on Red Hat OpenShift

Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications with Exam (DO289) teaches you how to design, build, and deploy containerized software applications on an OpenShift cluster

Whether you are migrating existing applications or writing container-native applications, you will learn how to boost developer productivity powered by Red Hat® OpenShift Container Platform, a containerized application platform that allows enterprises to manage container deployments and scale their applications using Kubernetes.

The skills you learn in this course can be applied using all versions of Red Hat OpenShift, including Red Hat OpenShift on AWS (ROSA), Azure Red Hat OpenShift (ARO), and Red Hat OpenShift Container Platform.

This course is based on Red Hat OpenShift 4.18. The Red Hat Certified OpenShift Application Developer Exam (EX288) is included in this offering

Who should attend

- Software developers
- Software architects

This course is part of the following Certifications

Red Hat Certified Specialist in OpenShift Application Development (RHCOE)

Prerequisites

- Take our free assessment to gauge whether this offering is

the best fit for your skills

- Complete [Red Hat OpenShift Development I: Introduction to Containers with Podman \(DO188\)](#), or have equivalent knowledge
- RHCSA or higher is helpful for navigation and usage of the command line, but it is not required

Course Objectives

Impact on the organization

This course provides application developers with the essential skills to design, build, and deploy containerized applications, whether they are migrating existing applications to OpenShift, or creating new cloud-native applications. It provides the gateway to organizational and digital transformation by demonstrating the potential of DevOps using a container-based architecture.

As developers seek ways to improve application time to market for minimum viable products, containers and OpenShift have quickly become the de facto solution for agile development and application deployment. A container-based architecture, orchestrated with Kubernetes and OpenShift, improves application reliability and scalability while decreasing developer overhead and facilitating continuous deployment. Red Hat OpenShift provides the ability to consistently develop and deploy these applications in AWS using Red Hat OpenShift Service on AWS (ROSA), in Microsoft Azure using Azure Red Hat OpenShift, or as a self-managed Red Hat OpenShift Container Platform running in public cloud or customer datacenter environments.

Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

You will learn about the fundamental concepts behind containerizing, scaling, deploying, and managing applications in Red Hat OpenShift Container Platform. You will acquire these

skills:

- Design container images to containerize applications.
- Different ways to build, deploy and manage containers.
- Deploy multi-container applications.
- Implement health checks to improve system reliability.
- Create and run automated pipelines for continuous delivery.

Course Content

- Features for developers in the Red Hat OpenShift web console
- Building and publishing container images for Red Hat OpenShift
- Managing container deployments on Red Hat OpenShift
- Create and deploy multi-container applications on Red Hat OpenShift
- Deploy multi-container applications using Helm Charts and Kustomize
- Create health checks to monitor and improve application reliability
- Creating CI/CD Workflows using Red Hat OpenShift Pipelines

Detailed Course Outline

Red Hat OpenShift Container Platform for Developers

Define the Red Hat OpenShift architecture, concepts and terminology, and set up the developer environment.

Deploying Simple Applications

Deploy simple applications by using the Red Hat OpenShift web console and command-line tools.

Building and Publishing Container Images

Build, deploy and manage the lifecycle of container images by using a container registry.

Managing Red Hat OpenShift Builds

Describe the Red Hat OpenShift build process and build container images.

Managing Red Hat OpenShift Deployments

Describe the different Red Hat OpenShift deployment strategies

and how to monitor the health of applications.

Deploying Multi-container Applications

Deploy multi-container applications by using Red Hat OpenShift templates, Helm charts, and Kustomize.

Continuous Deployment using Red Hat OpenShift Pipelines

Implement CI/CD workflows by using Red Hat OpenShift Pipelines.

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.



Fast Lane Services

- ✓ High End Technology Training
- ✓ Business & Soft Skill Training
- ✓ Consulting Services
- ✓ Managed Training Services
- ✓ Digital Learning Solutions
- ✓ Content Development
- ✓ Remote Labs
- ✓ Talent Programs
- ✓ Event Management Services

Training Methods

- ✓ Classroom Training
- ✓ Instructor-Led Online Training
- ✓ FLEX Classroom – Classroom & Online Hybrid
- ✓ Onsite & Customized Training
- ✓ E-Learning
- ✓ Blended & Hybrid Learning
- ✓ Mobile Learning

Technologies & Solutions

- ✓ Digital Transformation
- ✓ Artificial Intelligence
- ✓ Cloud
- ✓ Networking
- ✓ Cyber Security
- ✓ Wireless & Mobility
- ✓ Modern Workplace
- ✓ Data Center



Worldwide Presence
with high-end training centers
around the globe



Multiple Awards
from vendors such as AWS,
Microsoft, Cisco, Google, NetApp,
VMware



Experienced SMEs
with over 19.000 combined
certifications

Germany
Fast Lane Institute for Knowledge
Transfer GmbH
Tel. +49 40 25334610
info@flane.de / www.flane.de

Austria
ITLS GmbH
(Partner of Fast Lane)
Tel. +43 1 6000 8800
info@itls.at / www.itls.at

Switzerland
Fast Lane Institute for Knowledge
Transfer (Switzerland) AG
Tel. +41 44 8325080
info@flane.ch / www.flane.ch