Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288)

Category: Software Development & Programming | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Red Hat® OpenShift Container Platform provides developers an enterprise-ready solution for developing and deploying containerized software applications. Red Hat OpenShift Development I: Containerizing Applications provides hands-on training to boost developer productivity powered by Red Hat OpenShift Container Platform.

This course is based on Red Hat OpenShift Container Platform 4.2.

About This Course

In this course, you will learn how to design, build, and deploy containerized software applications on an OpenShift cluster. Whether writing container-native applications or migrating existing applications, this course provides hands-on training to boost developer productivity powered by Red Hat® OpenShift Container Platform.

Course summary

- Deploy applications from container images, Dockerfiles, and source code to an OpenShift cluster.
- Manage applications using the OpenShift web console and the OpenShift CLI.
- Inject configuration data and secrets into an application.
- Publish application container images to an external registry.
- Manage application builds and build hooks.
- Create application from templates.
- Manage application deployments.
- Monitor application health using probes.
- Migrate applications to containers and microservices.

Who Should Attend

- Software developers interested in adopting containers as a preferred method for deploying applications
- Software architects interested in adopting containers as a preferred method for deploying applications

Prerequisites & Entry Requirements

General Prerequisites:

Red Hat recommends these prerequisites:

- Have completed the Red Hat OpenShift Administration I: Operating a Production Cluster (DO180), or have equivalent knowledge
- Being a Red Hat Certified System Administrator or having earned a higher certification is helpful for navigation and usage of the command line, but is not required

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Impact on the organization

This course is intended to develop the skills needed to containerize software applications and deploy them to a Red Hat® OpenShift Container Platform cluster. These skills allow you to take advantage of a platform and architecture that fosters DevOps principles in your organization. Red Hat OpenShift Container Platform provides a self-provisioning environment for developers to deploy their applications using DevOps patterns such as continuous integration and deployment. Many language and database runtimes, containerized Red Hat Middleware, and more are provided to reduce the need for custom containerization by the developer, thereby reducing time to market.

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

As a result of attending this course, you should be able to containerize applications for deployment on the Red Hat OpenShift Container Platform. You should be able to demonstrate these skills:

- Deploy applications to an OpenShift cluster and manage them with the command line client and the web console.
- Design and build containers for applications for successful deployment to an OpenShift cluster.
- Publish container images to an enterprise registry.
- Build containerized applications using the Source-to-Image facility.
- Create applications using OpenShift templates.
- Extract a service from a monolithic application and deploy it to the cluster as a microservice.
- Migrate applications to run on an OpenShift cluster.

Detailed Course Outline

Deploy and manage applications on an OpenShift cluster

Deploy an application to an OpenShift Cluster.

Design containerized applications for OpenShift

Build container images with advanced Dockerfile directives.

Publish enterprise container images

Create an enterprise registry and allow access to the OpenShift registry.

Build applications

Describe the OpenShift build process and implement post-commit build hooks.

Customize Source-to-Image builds

Customize an existing S2I base image.

Create applications from OpenShift templates

Describe the elements of an OpenShift template and create a multi-container template.

Manage application deployments

Monitor application health and select the appropriate deployment strategy.

Migrate applications to OpenShift

Integrate external services and migrate applications deployed on Red Hat JBoss Middleware.

Skills You Will Learn:

Impact on the organization

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Frequently Asked Questions

Q: What delivery options are available for Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications, OpenShift Development, DO288

Q: Why choose Nexus Human for Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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