

Course : Red Hat OpenShift, level 1 development, containerization applications

Practical course - 3d - 21h00 - Ref. RHS

Price : 2210 CHF E.T.

★★★★☆ 3,8 / 5

OpenShift is a PaaS from Red Hat. This platform (which uses Docker and Kubernetes technologies) enables projects to be deployed in containers. In this course, you'll learn how to design, develop and deploy containerized applications in an OpenShift cluster.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Deploy and manage applications on a RedHat OpenShift cluster
- ✓ Design and build application containers for successful deployment on an OpenShift cluster
- ✓ Building containerized applications with Source-to-Image functionality
- ✓ Create applications based on OpenShift templates
- ✓ Extract a service from a monolithic application and deploy it as a microservice in the cluster
- ✓ Migrating applications to run on an OpenShift cluster

Intended audience

Software developers and architects considering the adoption of containers as the preferred method for deploying applications.

Prerequisites

Basic knowledge of containers, Kubernetes and Red Hat OpenShift.

Practical details

Hands-on work

Training alternating theory and practice.

Course schedule

PARTICIPANTS

Software developers and architects considering the adoption of containers as the preferred method for deploying applications.

PREREQUISITES

Basic knowledge of containers, Kubernetes and Red Hat OpenShift.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Deploying and managing applications on an OpenShift cluster

- Building an image for an application.
- Moving an application to OpenShift.
- Managing an application on OpenShift.

2 Designing containerized applications for OpenShift

- The KISS, DRY, YAGNI and SoC principles.
- Microservices-based applications.

Hands-on work

Create container images based on advanced Dockerfile instructions.

3 Publication of corporate container images

- Notion of company register.
- Access rights to the OpenShift registry.

Hands-on work

Create a company registry and authorize access to the OpenShift registry.

4 Building applications

- Description of the OpenShift build process.
- Installation of version hooks after submission.

Hands-on work

OpenShift construction and implementation of version hooks after submission.

5 Source-to-Image version customization

- Why customize a S2I (Source-to-Image) version?
- Customize an S2I image.

Hands-on work

Customization of a basic S2I image.

6 Creating applications from OpenShift templates

- The OpenShift model.
- Multi-container model.

Hands-on work

Description of OpenShift model elements and creation of a multi-container model.

7 Application deployment management

- Monitoring deployed applications.
- Deployment strategy adapted to planned monitoring.

Hands-on work

Monitor application health and choose an appropriate deployment strategy.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

8 Migrating applications to OpenShift

- Integration of external services.
- Migration of applications deployed on Red Hat JBoss Middleware/WildFly.

Hands-on work

Integration of external services and migration of applications deployed on Red Hat JBoss Middleware.

Dates and locations

REMOTE CLASS

2026 : 18 May, 12 Oct., 16 Nov.