

Updated 06/17/2025

Sign up

OpenShift Advanced Training

3 days (21 hours)

Presentation

Our OpenShift Advanced training course will enable you to master application container orchestration and application deployment.

This course, aimed at experts, will familiarize you with all the advanced concepts of OpenShift, and you'll discover all the features present in its ecosystem.

During this course, you'll provide a single console for controlling [clusters](#) and applications with integrated security policies.

OpenShift Advanced lets you run your workloads and manage all the Kubernetes clusters in your environment.

As with all our training courses, this one will highlight all the advances in this technology, with the latest stable release of the project ([OpenShift 4.18](#) to date).

Objectives

- Understanding advanced concepts
- Discover OpenShift's internal architecture
- Manage multiple large-scale containerized environments
- Implement application deployment automation

Target audience

- Developers
- System administrators
- Engineers

- System architects

Prerequisites

Fundamental knowledge of OpenShift or have completed our [OpenShift training course](#).

Our OpenShift Advanced training program

A reminder about OpenShift

- OpenShift architecture
- Containerized services
- Container management
- Deployments
- Hybrid Cloud

Cluster management

- Create, update and delete Kubernetes clusters centrally across multiple clouds
- Search and modify Kubernetes resources
- Solve all problems related to your federated domain
- Task automation
 - Cloud storage configuration
 - Static IP addresses
 - Updating network components

Advanced application cycle management

- Deploy applications in multiple clusters according to policies
- Visualize service endpoints and pods associated with your application topology
- Automate application deployment in specific clusters
- Configuration automation
 - Networking
 - Databases

Multiple cluster observability

- Dashboard-based overview of cluster integrity and optimization

- Sort, filter and analyze individual clusters or several aggregated clusters
- Get an aggregated view of cluster measurement indicators
- Accelerate problem-solving with visual web terminals and dynamic searches

Submariner: Networking several clusters

- Providing a common network infrastructure with Submariner
- Using DNS service discovery for connected Kubernetes clusters
- Manage and monitor the network flow of microservice-based applications

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.