

Red Hat Cloud-native Microservices Development with Quarkus (DO378)

ID DO378 **Preis** CHF 3'690.– (exkl. MwSt.) **Dauer** 4 Tage

Zielgruppe

- This course is designed for application developers.

Voraussetzungen

- Experience with application development or Red Hat Application Development I: Programming in Java EE (JB183)
- Be proficient in using an IDE such as Red Hat® Developer Studio or VSCode
- Recommended, but not required: experience with Maven and version control.
- Recommended, but not required: experience with OpenShift or Introduction to OpenShift Applications (DO101)

Kursziele

Impact on the organization

- Many organizations are striving to make the move from monolithic applications to applications based on microservices, as well as how to reorganize their development paradigm to reap the benefits of microservice development in a DevOps economy. With Quarkus, developers can more quickly build, test, and deploy their applications, improving application time to market.
- Organizations are also invested in the familiarity of Java™ programming frameworks as well as the stability and benefits Red Hat OpenShift Container Platform. This course teaches developers how to leverage microservice application development with Quarkus for streamlined deployment on OpenShift clusters.

Impact on the individual

As a result of attending this course, you will understand how to develop, monitor, test, and deploy microservice-based applications using Quarkus and Red Hat OpenShift.

You should be able to demonstrate these skills:

- Design a microservices-based architecture for an enterprise application.
- Quickly build and test microservices with Quarkus and deploy on to OpenShift Container Platform.
- Implement fault tolerance and health checks for microservices.
- Secure microservices to prevent unauthorized access.

Recommended next course or exam

- [Introduction to Containers, Kubernetes, and Red Hat OpenShift \(DO180\)](#)
- [Red Hat OpenShift Development I: Containerizing Applications \(DO288\)](#)
- [Building Resilient Microservices with Red Hat OpenShift Service Mesh \(DO328\)](#)

Kursinhalt

Describe microservice architectures

- Describe components and patterns of microservice-based application architectures.

Implement a microservice with Quarkus

- Describe the specifications in Quarkus, implement a microservice with some of the specifications, and deploy it to an OpenShift cluster.

Build microservice applications with Quarkus

- Build a persistent and configurable distributed quarkus microservices application.

Implement fault tolerance

- Implement fault tolerance in a microservice architecture.

Build and deploy native Quarkus applications

- Describe Quarkus in native mode and describe its deployment on OpenShift Container Platform.

Test microservices

- Implement unit and integration tests for microservices.

Create application health checks

- Create a health check for a microservice.

Secure microservices

- Secure microservice endpoints and communication.

Monitor microservices

- Monitor the operation of a microservice using metrics and distributed tracing.

Weltweite Trainingscenter



Fast Lane Institute for Knowledge Transfer GmbH

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, <https://www.flane.ch>