RED HAT CLOUD-NATIVE MICROSERVICES DEVELOPMENT WITH QUARKUS (DO378)

Course Code: 821726

Learn Quarkus and OpenShift.

Develop microservice-based applications with Quarkus and OpenShift

Many enterprises are looking for a way to take advantage of cloud-native architectures, but many do not know the best approach. Quarkus is an exciting new technology that brings the reliability, familiarity, and maturity of Java Enterprise with a container-ready lightning fast deployment time. Red Hat Cloud-native Microservices Development with Quarkus (DO378) emphasizes learning architectural principles and implementing microservices based on Quarkus and OpenShift. You will build on application development fundamentals and focus on how to develop, monitor, test, and deploy modern microservices applications. This course is based on OpenShift 4.6 and Quarkus 1.11.

What You'll Learn

- Deploy micro-service applications on OpenShift Container Platform.
- Building a microservice application with Quarkus.
- Implement unit and integration tests for microservices.
- Use the config specification to inject data into a microservice.
- Secure a microservice using OAuth.
- Build and deploy native Quarkus applications.

Who Needs to Attend

- This course is designed for application developers.

Prerequisites

- 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).

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CLASSROOM LIVE	$6,345 CAD	4 Day

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ON-DEMAND	$5,393 CAD

On-Demand Outline

Describing microservice architectures

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

Implementing a microservice with Quarkus

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

Deploying microservice-based applications

- Deploy Quarkus microservices to a Red Hat OpenShift cluster.

Building microservice applications with Quarkus

- Build a persistent and configurable distributed quarkus microservices application.

Implement fault tolerance

- Implement fault tolerance in a microservice architecture.

Building and deploying native Quarkus Applications

- Describe Quarkus Native and 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.

Securing microservices

- Secure microservice endpoints and communication.

Monitor microservices

- Monitor the operation of a microservice using metrics, distributed tracing, and log aggregation

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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