

Red Hat Cloud-native Microservices Development with Quarkus

Duración: 4 Días **Código del Curso: DO378** **Método de Impartición: Curso Remoto (Virtual)**

Temario:

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 4.5 and Quarkus 1.7

Course content summary

- Deploy microservice applications on Red Hat® OpenShift Container Platform.
- Build 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.

Curso Remoto (Abierto)

Nuestra solución de formación remota o virtual, combina tecnologías de alta calidad y la experiencia de nuestros formadores, contenidos, ejercicios e interacción entre compañeros que estén atendiendo la formación, para garantizar una sesión formativa superior, independiente de la ubicación de los alumnos.

Dirigido a:

This course is designed for application developers.

Objetivos:

- 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.
- - 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.

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)

- Take our free assessment to gauge whether this offering is the best fit for your skills.

Technology considerations: Internet access required

Siguientes cursos recomendados:

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)

Contenido:

Describe microservice architectures	Implement fault tolerance	Create application health checks
Describe components and patterns of microservice-based application architectures.	Implement fault tolerance in a microservice architecture.	Create a health check for a microservice.
Implement a microservice with Quarkus	Build and deploy native Quarkus applications	Secure microservices
Describe the specifications in Quarkus, implement a microservice with some of the specifications, and deploy it to an OpenShift cluster.	Describe Quarkus in native mode and describe its deployment on OpenShift Container Platform.	Secure microservice endpoints and communication.
Build microservice applications with Quarkus	Test microservices	Monitor microservices
Build a persistent and configurable distributed quarkus microservices application.	Implement unit and integration tests for microservices.	Monitor the operation of a microservice using metrics and distributed tracing.

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

info.cursos@globalknowledge.es

www.globalknowledge.com/es-es/

Global Knowledge Network Spain, C/ Retama 7, 6ª planta, 28045 Madrid