Red Hat Cloud-Native Microservices Development with Quarkus

Kód kurzu: DO378

Od ledna 2026 je možné za původních podmínek zakoupit pouze prezenční Red Hat školení. Virtuální kurzy (VT) jsou dostupné výhradně v rámci ročního předplatného RHLS Course.Jak si naplánovat virtuální kurz v Red Hat Learning Subscription Course naleznete zde.
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

Pre koho je kurz určený

- This course is designed for application developers.

Čo Vás naučíme

- 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.
- Implement health checks, tracing and monitoring of microservices.
- Build and deploy native Quarkus applications.

Požadované vstupné znalosti

- 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)

Osnova kurzu

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.

Deploy microservice-based applications

Deploy Quarkus microservices to a Red Hat 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.

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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.

Čo musíte vedieť

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.

Monitor and trace microservices.

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