

# DO378 Red Hat Cloud-native Microservices Development with Quarkus

Course Content –

## **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.