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Red Hat Cloud-native Microservices Development with Quarkus

Duración: 90 Días   Código del Curso: DO378   Método de Impartición: e-Learning (Self-Study)

Temario:

Develop microservice-based applications with Quarkus and OpenShift.
Enterprises are moving to cloud-native microservices architectures. 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 the Red Hat Build of Quarkus and Red Hat 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 4.14, and Red Hat Build of Quarkus 3.8.
Following course completion, you will receive a 45-day extended access to hands-on labs for any course that includes a virtual environment.
Note: This course is offered as a five day virtual class or self-paced. Durations may vary based on the delivery. For full course details, scheduling, and pricing, select your location then "get started" on the right hand menu.

e-Learning

Los servicios de e-learning y recursos on-demand que ofrece Global Knowledge, están diseñadas para permitir el acceso a los recursos de aprendizaje en cualquier lugar y en cualquier momento que convenga al alumno. Nuestra solución incluye la posibilidad de acceder a los equipos cuando se necesita para practicar sus habilidades y la oportunidad de ver y escuchar a nuestros expertos en la materia, ya que destacan las áreas clave de la formación.

Dirigido a:

This course is designed for Java application developers.

Objetivos:

- 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 reactive and asynchronous applications using Quarkus.

Prerequisitos:

- Experience with Java application development or Red Hat Application Development I: Programming in Java EE (AD183)
- Be proficient in using an IDE such as Visual Studio Code
- Recommended, but not required: experience with Maven and version control.
- Recommended, but not required: experience with OpenShift or Introduction to OpenShift Applications (DO101)

Exámenes y certificación

Red Certified Cloud-Native Developer Exam (EX378)

Siguientes cursos recomendados:

- DO188 - Red Hat OpenShift Development I: Introduction to Containers with Podman
- DO288 - Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications
- DO328 - Building Resilient Microservices with Istio and Red Hat OpenShift Service Mesh
- DO400 - Red Hat DevOps Pipelines and Processes: CI/CD with Jenkins, Git, and Test Driven Development

Contenido:

Introducing the Red Hat Build of Quarkus	Developing Reactive and Asynchronous Microservices	Implementing Fault Tolerance in Microservices
Describe the components and patterns of microservice-based application architectures and the features of the Red Hat Build of Quarkus.	Describe the features of reactive architectures and implement reactive services by using Quarkus.	Implement fault tolerance in a microservice architecture.
		Monitoring Quarkus Microservices
Developing Cloud-native Microservices with Quarkus	Securing Quarkus Microservices	Monitor the operation of a microservice by using logging, metrics and distributed tracing.
Implement microservices based applications by using the Red Hat Build of Quarkus runtime and associated developer tooling.	Secure microservice communications by applying origin validation, requests authentication and authorization.	
Testing Quarkus Microservices	Implementing Quarkus Microservices on the Red Hat OpenShift Container Platform	
Implement unit and integration tests for microservices.	Develop and deploy cloud-native applications on the Red Hat OpenShift Container Platform.	

Información Adicional:

Impact on the organization 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.

Más información:

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

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