

Training: Red Hat
JB283 Red Hat Application Development II: Implementing Microservice Architectures



FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	2600 EUR	4 days
Traditional	CTAB Tablet	2700 EUR	4 days

LOCATIONS

Krakow - 5 Tatarska Street, II floor, hours: 9:00 am - 4:00 pm

Warsaw - 17 Bielska Street, hours: 9:00 am - 4:00 pm

TRAINING GOALS:

You will build on Java EE application development fundamentals and focus on how to develop, monitor, test, and deploy modern microservices applications. Many enterprises are looking for a way to take advantage of cloud-native architectures, but many do not know the best way to go about it. These enterprises have monolithic applications written in Java Enterprise Edition (JEE).

This course is based on Red Hat® Enterprise Application Platform 7.4 and Wildfly Swarm 2018.3.3.

Audience for this course:

- This course is designed for Java developers.

CONSPECT:

- Describe microservice architectures
 - Describe components and patterns of microservice-based application architectures.
- Deploy microservice-based applications
 - Deploy portions of the course case study applications on an OpenShift cluster.
- Implement a microservice with MicroProfile
 - Describe the specifications in MicroProfile, implement a microservice with some of the specifications, and deploy it to an OpenShift cluster.
- Test microservices
 - Implement unit and integration tests for microservices.
- Inject configuration data into a microservice
 - Inject configuration data from an external source into a microservice.

- Create application health checks
 - Create a health check for a microservice.
- Implement fault tolerance
 - Implement fault tolerance in a microservice architecture.
- Develop an API gateway
 - Describe the API gateway pattern and develop an API gateway for a series of microservices.
- Secure microservices with JWT
 - Secure a microservice using the JSON Web Token specification.
- Monitor microservices
 - Monitor the operation of a microservice using metrics, distributed tracing, and log aggregation.

REQUIREMENTS:

Red Hat recommends these prerequisites:

- Attend JB183 Red Hat Application Development I: Programming in Java EE or demonstrate equivalent experience
- Be proficient in using an integrated development environment such as Red Hat® Developer Studio or Eclipse
- Experience with Maven is recommended, but not required

Difficulty level



CERTIFICATE:

Participants will obtain certificates signed by Red Hat.

TRAINER:

Red Hat Certified Instructor.

ADDITIONAL INFORMATION:

Recommended next exam or course:

EX283 Red Hat Certified Enterprise Microservices Developer Exam

DO180 Introduction to Containers, Kubernetes, and Red Hat OpenShift

- Highly recommended for those who don't have OpenShift experience

DO288 Red Hat OpenShift Development I: Containerizing Applications