



D0283 - Red Hat Application Development II: Implementing Microservice Architectures

- **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.



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- **Monitor microservices**

- Monitor the operation of a microservice using metrics, distributed tracing, and log aggregation.