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Developing Event-Driven Applications with Apache Kafka and Red Hat AMQ Streams (AD482)

Duration: 3 Days

Prerequisites:

- Experience with microservice application development and design, such as DO378 or equivalent experience.
- OpenShift experience is recommended, but not required.

Course Description:

Learn to use Kafka and AMQ Streams to design, develop, and test event-driven applications. Event-driven microservices scale globally, store and stream process data, and provide low-latency feedback to customers. This course is for application developers and is based on Red Hat AMQ Streams 1.8 and Red Hat OpenShift Container Platform 4.6.

Intended Audience:

Application developers with microservice development experience.

Course Outlines:

Designing Event-Driven Applications

- Describe the principles of event-driven applications.

Introducing Kafka and AMQ Streams Concepts

- Build applications with basic read-and-write messaging capabilities.

Building Applications with the Streams API

- Leverage the Streams API to create data streaming applications.

Creating Asynchronous Services with Event Collaboration

- Create and migrate to asynchronous services using the event collaboration pattern.

Integrating Data Systems with Kafka Connect

- Connect data systems and react to data changes using Kafka Connect and Debezium.

Troubleshooting AMQ Streams Applications

- Handle common problems in Kafka and AMQ Streams applications.

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