

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

Cursusduur: 90 Dagen Cursuscode: AD482 Version: 1.8 Trainingsmethode: e-Learning

Beschrijving:

Develop, scale, and troubleshoot event-driven microservice applications.

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.

e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Doelgroep:

Application developers with microservice development experience.

Doelstelling:

- Describe the basics of Kafka and its architecture.
- Develop applications with the Kafka Streams API.
- Integrate applications with Kafka Connect.
- Capture data change with Debezium.
- Troubleshoot common application streaming issues.

Vereiste kennis en vaardigheden:

Prerequisites for this course

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

Technology considerations

- BYOD classroom environment with access to the shared cluster.
- A cloud-based classroom environment will also be made available.
- DO378 - Red Hat Cloud-native Microservices Development with Quarkus

Examens en certificering

Red Hat Certified Specialist in Event-Driven Application Development Exam (EX482) - Coming soon

Cursusinhoud:

Designing Event-Driven Applications	Building Applications with the Streams API	Integrating Data Systems with Kafka Connect
Describe the principles of event-driven applications.	Leverage the Streams API to create data streaming applications.	Connect data systems and react to data changes using Kafka Connect and Debezium.
Introducing Kafka and AMQ Streams Concepts	Creating Asynchronous Services with Event Collaboration	Troubleshooting AMQ Streams Applications
Build applications with basic read-and-write messaging capabilities.	Create and migrate to asynchronous services using the event collaboration pattern.	Handle common problems in Kafka and AMQ Streams applications.

Extra informatie:

Impact on the organization Organizations are recognizing that traditional synchronous applications are not able to scale consistently and adjust to the massive amounts of data from customers while still meeting customers' expectations of immediate results. With event-driven applications using Kafka and AMQ Streams, organizations can expect to be able to globally scale their applications, store and stream process data, and provide feedback to customers with extremely low latency.

Impact of this training As a result of attending this course, students will understand the architecture of Kafka and AMQ Streams and will be able to identify proper use cases for event-driven applications. In addition to learning the fundamental principles and features of Kafka and AMQ Streams, Students will learn how to design, develop, and test event-driven applications. Students should be able to demonstrate the following skills: Design, build, and use event-driven applications for relevant scenarios with standard patterns. Detect and react to data changes with Debezium to improve application performance. Troubleshoot common problems with event-driven applications.

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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