

Red Hat Certified Specialist in Event-Driven Development with Kafka

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Red Hat Certified Specialist in Event-Driven Development with Kafka

Course Modules

1. Udstd and work with event-driven app with AMQ Streams API.

- Know how to send and read data from Kafka.
- Develop microservices and other types of app to share data

2. Understand the Kafka ecosystem and architecture:

- How to create, configure, and manage topics.
- Ecosystem to share data with high throughput and low latency.
- How to scale and guarantee message ordering.
- Message compaction to remove old records, and how to set them.
- Config and use of the replication of data to control fault tolerance.
- Retention of high volumes of data for immediate access.



3. Work with a Quarkus application connected to Kafka

- Connect to Kafka with Reactive Messaging
- Connect to Apache Kafka with its native API
- Produce msg & implement event-driven and data-streaming app
- Be familiar with the reactive libraries used by Quarkus

4. Event-driven patterns in app based on Apache Kafka:

- Work in an app with Event Sourcing and CQRS patterns
- Work in advanced technq like long-running bsns transactions



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5. Provide and configure access to a Kafka cluster

- External listeners of Kafka on cloud. In the cases of Kubernetes
- Security of the comm bet the Kafka client and the cluster.
- Produce msg & implement event-driven and data-streaming app
- Provide Kafka client the req authentictn & authentictn security.

6. Provide and use the schema Red Hat Service Registry

- Understand and work with the different Kafka Streams APIs
- Configure and provide the proper Kafka SerDes
- Execute complex operations like mapping, filtering, etc.,
- Stream-table duality and perform stateful operations
- Define and connect custom processors and transformers



7. Data integration with Kafka Connect:

- Kafka Connect provides reliability and scalability data transfer
- Kafka facilitates data cnvrsn, transformation, and offset mgmt
- Apply the detect & capture data changes (CDC) with Debezium.
- Different stand-alone/distributed running modes
- Use the pre-built AMQ Streams connectors.

8. Troubleshoot most common problems in event-driven app

- Maintaining message ordering
- Retries and Idempotency
- Handling duplicate events
- Implement Streams test cases

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in terms of time management,
flexibility, and the ability
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