

\equiv

Streams Code Examples

You can find Streams code examples in the Apache Kafka® and Confluent GitHub repositories.

The Confluent Streams examples are locatedhere. These examples demonstrate the use of Java 8 lambda expressions (which simplify the code significantly), show how to read/write Avro data, and how to implement end-to-end integration tests using embedded Kafka clusters.

The Kafka Streams examples are located athttps://github.com/apache/kafka/streams/examples/. These examples demonstrate the use of the Kafka Streams DSL and the low-level Processor API, including typed and untyped examples.

Getting started examples

Java

With lambda expressions for Java 8+:

- WordCountLambdaExample
- AnomalyDetectionLambdaExample
- GlobalKTablesExample
- MapFunctionLambdaExample
- PageViewRegionLambdaExample
- UserRegionLambdaExample
- WikipediaFeedAvroLambdaExample
- ApplicationResetExample
- SessionWindowsExample
- SumLambdaExample
- TopArticlesLambdaExample

Without lambda expressions for Java 7+:

- PageViewRegionExample
- WikipediaFeedAvroExample

Scala

• MapFunctionScalaExample

Security examples

Java programming language

Without lambda expressions for Java 7:

• SecureKafkaStreamsExample



Interactive Queries examples

Since Confluent Platform 3.1+ and Kafka 0.10.1+, it is possible to query state stores created via the Afka Streams DSL and the Processor API. Please refer to Interactive Queries for further information.

Java

With lambda expressions for Java 8+:

- WordCountInteractiveQueriesExample
- KafkaMusicExample

End-to-end application examples

These demo applications use embedded instances of Kafka, ZooKeeper, and Confluent Schema Registry. They are implemented as integration tests

Java

With lambda expressions for Java 8+:

- WordCountLambdaIntegrationTest
- FanoutLambdaIntegrationTest
- GenericAvroIntegrationTest
- GlobalKTablesExampleTest
- HandlingCorruptedInputRecordsIntegrationTest
- MapFunctionLambdaIntegrationTest
- MixAndMatchLambdaIntegrationTest -- how to mix the DSL and the Processor API
- SpecificAvroIntegrationTest
- StateStoresInTheDSLIntegrationTest -- how to use state stores in the DSL
- StreamToStreamJoinIntegrationTest
- StreamToTableJoinIntegrationTest
- TableToTableJoinIntegrationTest
- UserCountsPerRegionLambdaIntegrationTest
- $\bullet \quad \mathsf{ApplicationResetIntegrationTest}$
- $\bullet \quad Event Deduplication Lambda Integration Test$
- SumLambdaIntegrationTest
- TopArticlesLambdaExampleTest

Without lambda expressions for Java 7:

• PassThroughIntegrationTest

Scala

- StreamToTableJoinScalaIntegrationTest
- ProbabilisticCountingScalaIntegrationTest demonstrates how to probabilistically count items in an input stream by implementing a custom state store that is backed by a Count-Min Sketch data structure
- GenericAvroScalaIntegrationTest

- SpecificAvroScalaIntegrationTest
- WordCountScalaIntegrationTest

Event-Driven Microservice example

Java

The Event-Driven Microservice example implements an Orders Service that provides a REST interface to POST and GET orders. Posting an order creates an event in Kafka, which is picked up by three different validation engines: a Fraud Service, an Inventory Service, and an Order Details Service. These services validate the order in parallel, emitting a PASS or FAIL based on whether each validation succeeds.

- Microservices example
- Microservices test

© Copyright 2019, Confluent, Inc. Privacy Policy | Terms & Conditions. Apache, Apache Kafka, Kafka and the Kafka logo are trademarks of the Apache Software Foundation. All other trademarks, servicemarks, and copyrights are the property of their respective owners.

Please report any inaccuracies on this page or suggest an edit.

1 Vote

Last updated on Sep 10, 2019.