

PROFESSIONAL SERVICES

Streaming Application Design

Engagement Objectives

Creating Streaming applications can be challenging and this engagement is targeted to help you in the design phase. You will have a member of Confluent Professional Services team work alongside your technical resources to help them effectively design KStreams apps. The Confluent expert will assess your use case and discuss design trade-offs, share known best practices, and flag potential pitfalls with your team to ensure that your streaming applications are designed and built according to our known best practices.

Benefits

- Confluent assist you with your streaming architecture design
- Confluent assist you with your implementation choices suitable for your team and business
- Knowledge transfer specific to your team's level of understanding
- Targeted recommendations specific to your business and use case
- Acceleration of design phase and time to value

Prerequisites

- Upcoming or active Kafka-based projects requiring use of either the Java Client API (Producer/ Consumer), Kafka Streams API or ksqlDB
- A minimum of 3 months experience developing with Kafka Java clients.
- One or more staff having completed the Confluent Developer training
- Optional: experience with other stream processing solutions like Spark Streaming, Flink, others

Who should attend?

- Software developers
- Architects

Engagement Location

On-site at customer's premises, a room with a white-board and a screen, or projector, or remote work using video conferencing capabilities such as Zoom conference and shared screens.

Engagement Activities

Pre-engagement survey and kickoff call

- Align on engagement expectations and goals
- Confirm logistics

Align on engagement expectations, scope, and goals

- Confirm logistics
- Recommend pre-work your team can do before the engagement

Use case walkthrough

- How will Kafka Streams and/or ksqlDB be used — outline each application team's use
- Current and expected throughput
- Latency SLAs
- State store usage and query patterns

Discussion of considerations and recommendations, including the following:

- Designing for scalability and high-availability
- Patterns to guarantee data delivery and processing
- Design an optimized stream processing topology
- ksqlDB query design
- Kafka Streams application architecture and code
- Deployment considerations for Kafka Streams applications

Post-engagement report delivery

- Survey and follow-up call

Knowledge Transfer and Documentation

At the end of the project, the Confluent engineer will provide a written summary of their recommendations, which may include:

1. A high-level architectural design for your Kafka Streaming application
2. Best practices around development, deployment, monitoring, and operations
3. Settings and tunings to be scalable and highly available
4. Recommendations for how to test the application
5. Code samples for the Kafka Streams API and/or ksqlDB

Outcomes

- Agenda specific to your requirements
- 2-day workshop
- Confluent peer-reviewed report

Out of Scope

- Connect and Monitoring
- Deployment of Kafka or ksqlDB
- Security

Terms & Conditions

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