PROFESSIONAL SERVICES

Confluent Application Design

Engagement Objectives

Designing Streaming applications can be challenging. A member of our Professional Services team will work alongside your technical resources to help them effectively design KStreams apps. The Confluent expert will assess your use case, discuss design trade-offs, share known best practices and flag potential pitfalls to ensure your streaming applications are optimally designed and built.

Benefits

- Assistance with your streaming architecture design

- Assurance that implementation choices are 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 & Timing

1. Engagement is delivered over 2 consecutive days

2. The sessions may be conducted on-site at the customer's premises, or via remote sessions

Engagement Activities

Pre-engagement survey and kick-off call

- Align on engagement expectations and goals

- Confirm logistics

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

Engagement workshop (sample agenda)

- 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:

- Design 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

This engagement is governed by the terms and conditions specified in your order with Confluent.

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