

PROFESSIONAL SERVICES

Confluent Advanced Architecture Workshop

Engagement Objectives

Architecting systems around real-time data and stream processing can be complex. By having a Confluent expert work directly with your architect and developers, you can greatly reduce that complexity, and improve the quality of the design you put into production. This engagement takes the form of an in-depth workshop where a Confluent Professional Services expert works with your team to assess your business and technical goals, calling on knowledge gained from previous customer use cases, and working with you to iterate on an application architecture design that can be developed and implemented. We will advise and guide your team on how best to use each product component, share best practices and flag potential pitfalls.

Benefits

- Validation that architecture is correct for your use case
- Validation of infrastructure and sizing
- Knowledge transfer specific to your team's level of understanding
- Review of your security requirements, discussion of Kafka security concepts, best practices and known pitfalls
- Discussions on advanced Kafka architecture concepts like implementing across multiple Data Centers and Synchronous replication
- Targeted recommendations specific to your business and use case
- Acceleration of design phase and time to value

Prerequisites

General

- Practical experience and or training can improve the value obtained from the workshop
- One or more staff having completed the Confluent Administrator & Developer training

Security

- An understanding of your security requirements
- Authentication by SSL, SASL/Kerberos or SASL/Plain, OAUTH
- At-rest and on the wire encryption
- Broker & Client authentication
- Necessary privileges for the Kafka and Confluent Platform users

Who should attend?

- Developers and Engineers
- Operations staff responsible for an upcoming Kafka cluster deployment
- Engineers and operations staff responsible for Kafka security
- Architects
- Product/Project Owner

Engagement Location & Timing

- Engagement is delivered over 4 consecutive days on-site at the customer's premises
- There are an additional 3-4 days non customer facing time included for session preparation, documentation development and review
- The sessions may be conducted via remote sessions upon request

Engagement Activities

Pre-engagement survey and kick-off call

- Align on engagement expectations and goals
- Prepare the final agenda
- Confirm logistics
- Discuss your existing Confluent Platform or Kafka architecture and use cases
- Discuss security requirement goals — encryption, authentication, and authorization
- Discuss implications of a rolling upgrade, if required

Engagement workshop (sample agenda):

- Use case walkthrough
- Architecture as-is and to-be discussion
- Data modeling
- Client review
- Kafka connect
- Additional platform components (Confluent Control Center, Confluent Replicator, etc.)
- Capacity planning
- In-depth Security Sessions
- Advance concepts like: Multi-datacenter Architecture
- Monitoring
- Operational topics e.g Kafka configurations and ZooKeeper tuning
- Deployment best practices

Discussion of considerations & recommendations, including the following:

- Designing for scalability and high-availability
- Patterns to guarantee data delivery and processing
- Integration with surrounding systems
- Approaches and tradeoffs in designing real-time stream processing applications

Knowledge Transfer and Documentation

Post-workshop, the Confluent expert will provide a peer-reviewed report with a written summary of their recommendations, which may include:

1. An architectural design for your use cases
2. Findings and best-practice recommendations
3. Design patterns around integrations, delivery, and processing
4. Scalability and high availability recommendations
5. Potential testing recommendations

Outcomes

- Agenda specific to your requirements
- On-site workshop
- Confluent peer-reviewed best practice recommendations report
- Follow up call to walk through the report

Out of Scope

- RBAC Design
- Hands on build activities

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