

PROFESSIONAL SERVICES

Confluent Cloud – Migration Workshop

Engagement Objectives

Confluent Cloud delivers a resilient, scalable streaming service deployable in minutes, managed and maintained by Confluent.

Confluent Cloud Migration workshop is designed to help you smoothly migrate your existing Kafka deployment and Confluent Platform components to Confluent Cloud. This engagement will have a Confluent Professional Services expert work alongside your technical teams to create a plan and discuss migration steps and procedures.

Benefits

- Create a plan or assess the existing migration plan
- Discuss “what-if” scenarios during the migration
- Discuss various ways to migrate your data to Confluent Cloud
- Discuss migration strategy of Confluent clients with minimal downtime

Prerequisites

- Having a high-level understanding of Confluent Cloud client connectivity and security features
- Active Kafka clusters that are either in production or at least in dev/staging. One cluster as the “source” and the other as the “destination” in Confluent Cloud
- Security: TLS keypairs and CAs work in Java keystores and truststores, Plan ACLs that need to be created
- One or more staff having completed either the Confluent Developer training or Confluent Operations training, OR a minimum of 3 months experience developing with and / or operating Kafka
- Operations, networking and security personnel available to help with issues

Who should attend?

- Software developers working with Apache Kafka and operations staff responsible for managing Kafka clusters
- Architects
- Product/project owner

Engagement Location

This engagement is typically delivered on-site, in a room with a whiteboard and a screen, or projector. May be conducted via remote sessions upon request.

Engagement Activities

Pre-engagement survey and kick-off call

- Align on the engagement expectations and goals
- Confirm logistics

Architecture walkthrough and infrastructure overview

- Current architecture pre and post-migration
- Security settings pre and post-migration
- Timelines and discussion of any existing migration strategies
- Expected downtime during migration

Discussion of considerations and recommendations, including the following:

- Kafka topics — which to migrate and which to not migrate, partition count, replication factor, etc.
- Confluent Replicator installation, configuration, and best practices.
- How to switchover clients with no data loss and minimal downtime. In rare instances, this may require configuration or code changes to your applications and deployments before the migration to prep for the migration, for example, to migrate committed off-sets correctly. A "client" is a producer, consumer, Kafka Streams application, KSQL application, or Kafka Connect (including Replicator) cluster.
- Security — authentication, encryption, access control. Please, note that this migration might require sending data across the internet.
- Review Sizing to ensure the Confluent Cloud cluster will be able to support target throughput
- Ways to monitor the migration and the Confluent Cloud cluster leveraging Confluent Control Center.

Direct guidance of migration work

Sometimes migrations are simple and can be completed in a day. Sometimes migrations are more complex and require multiple steps over days or weeks. Direct guidance time will be used for a combination of working directly with your team on migration work and planning of a longer migration.

Knowledge Transfer (Documentation)

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

1. Proposed migration strategy as a step by step guide
2. Miscellaneous recommendations made during the engagement

Outcomes

- Agenda specific to your requirements
- Hands-on onsite/remote workshop
- Written report summarizing recommendations
- It is recommended for those customers leveraging Kafka Streams or KSQL to also purchase a Streaming Application Design workshop.

Out of Scope

- Architecture re-design and diagrams
- Security strategy for clients outside of Confluent Cloud Model
- Client code changes
- Deep dive of topics outside this description. Additional modules are available for any specific topics that need to be covered in depth

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