MultiData Center

Engagement Objectives

The goal of this consulting engagement is to have a Confluent Kafka expert enable you to deploy Kafka clusters across multiple data center (MDC) and/or regions, for georeplication or disaster recovery. Your technical teams will work with a Confluent Kafka expert to introduce you to MDC concepts, share best practices and known pitfalls. You’ll work through an architectural design, configurations and a deployment plan, evaluating and testing options on a test cluster, to ensure you have everything required to deploy successfully.

By engaging with Confluent Professional Services, you leverage our expertise, knowledge and experience to ensure your implementation of MDC is best tailored for your use cases, is robust, optimised and well understood by your teams working with it.

Who Should Be Involved?

Engineers and operations staff responsible for implementation and ongoing support.

Prerequisites

» Moderate Kafka operational knowledge (a few months), or one or more staff having completed the Confluent Operations training

» If you wish to test in a staging environment, at least two Kafka clusters, each in its own data center, need to be available for testing. The clusters should have unrestricted network access to each other

» We will help determine your multidata center requirements
  • Is your goal to operate independent clusters in different geographic regions?
    • Does data need to be aggregated between them?
  • Is your goal disaster recovery?
    • Are you looking to implement a stretched cluster, for example across multiple availability zones in an Amazon Web Services region?
    • Will multiple data centers be active at once, or will one be a hot (passive) standby?
    • Do you need dynamic failover?
    • Do you need synchronous replication?

Project Activities

» Preengagement survey and kickoff call
  • Align on engagement expectations and goals
  • Confirm logistics

» Use case discovery
  • Business purpose of your Kafka deployment
  • Discuss volume and characteristics of the data in your cluster(s)
  • Type and quantity of producers and consumers of this data
  • Broker hardware, operating system, and configuration
  • Review programming languages used and Kafka clients in use

» MDC Planning and Implementation
  • Review requirements and SLAs for MDC
  • Discuss and review MDC options (DR/failover, active/passive) and MirrorMaker
  • Configure existing test/staging clusters for MDC
  • Validate the configuration through appropriate tests
  • Monitor and/or troubleshoot issues, if any

» Postengagement report delivery
  • Survey and followup call
Knowledge Transfer
At the end of the project, the Confluent engineer will provide a written summary and recommendations, which may include:

1. The proposed implementation of MDC that best fits your requirements
2. A deployment plan to implement MDC including required configuration changes
3. Tests to validate the MDC deployment has been successful
4. Required monitoring and logging changes
5. Any other recommended changes

Project Duration
One day of direct, continuous interaction between a Confluent engineer and the appropriate members of your technical team.

Project Location
Onsite at customer's premises, a room with a whiteboard and a screen, or projector.

More Information
To discuss the Kafka Multi Data Center consulting engagement, or any of the other services and training courses offered by Confluent, please contact us at contact@confluent.io.