

Confluent HealthCheck

Engagement Objectives

Ensuring that your current Confluent deployment is in optimal condition and ready to meet the ongoing requirements of your organization requires expertise and insight. Confluent Professional Services experts can work alongside your technical teams to assess your current Confluent components' health and overall capabilities, making recommendations to benefit your organization's specific needs.

We look at your application architecture, through the lens of scalability, reliability, throughput, latency, hardware, monitoring, and capacity estimation. In conjunction, we review your business use cases and SLAs and assess your Kafka Client configurations against our established best practices.

By engaging with Confluent, you'll proactively ensure that your Confluent deployments are in the best possible health while also learning about configuration and performance tuning best practices.

Benefits

- Confluent validation that your Data in Motion environment is configured as per vendor best practice recommendations
- Assurance that your deployment meets functional, performance, and resilience requirements
- Knowledge transfer specific to your team's level of understanding
- Targeted recommendations specific to your business and use case(s)
- Confidence in your mission-critical infrastructure and production readiness

Prerequisites

- A Confluent cluster currently in production or pre-production
- Monitoring tools already in place, to monitor the server, network, and Kafka (via JMX metrics)
- Knowledge of current practices utilized by your Confluent clients
- To get the most out of the engagement, Confluent highly encourages the key members of your team to complete some training beforehand to ensure familiarity with the relevant concepts. Visit www.confluent.io/training to learn the fundamentals of data streaming and Apache Kafka®.

Who should attend?

- Engineers / Software Developers
- Architects
- Product / Project Owner
- Engineering staff responsible for Kafka security

Engagement Location

This engagement is delivered over four days via remote sessions or onsite at the Customer's premises upon request.

Engagement Activities

Pre-engagement kick-off call

- Align on the engagement expectations and goals
- Preparation of final agenda
- Confirm logistics

Engagement workshop (sample agenda)

Use Case Review

- Business purpose of your Confluent deployment
- Discuss the volume and characteristics of the data in your cluster
- Type and quantity of producers and consumers of this data
- Broker hardware, operating system, and configuration
- Review programming languages used and related Kafka clients in use

Production Health Check

- Investigate server, network, and Kafka metrics, at peak and non-peak load
- Investigate architecture and configuration changes that could improve performance and/or reliability
- Discuss “what-if” scenarios around failure — what to do if a broker fails, how failure will impact your applications, if the consumer is lagging, etc
- Discuss future planning as load increases
- JVM tuning assessment
- ZooKeeper hardening and operationalization
- Upgrade lifecycle plans and its implications (compatibility, breaking changes, etc.)
- KRaft Controller eligibility
- Monitoring assessment
 - Review current monitoring plan
 - Identify gaps and recommend tools/improvements
- Disaster Recovery Solutions
- Daemon log management

Knowledge Transfer & Outcomes

Post Health Check, a Confluent expert will provide a summary of the workshop, which may include:

- Proposed configuration changes
- Potential testing recommendations
- Findings or best practices based on workshop discussions
- Areas of improvement

Terms & Conditions

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