

## PROFESSIONAL SERVICES

# Security Design

## Engagement Objectives

The goal of this consulting engagement is for a Confluent expert to work alongside your technical teams to analyze your security requirements, discuss Kafka security concepts, and to share best practices and known pitfalls. You'll work through architecture design, associated configurations and a deployment plan, with the goal of ensuring that you have everything required to deploy successfully.

## Benefits

By engaging with Confluent Professional Services, you leverage our expertise, knowledge and experience to design a security implementation tailored for your use cases, giving you confidence in the process.

- For SASL Kerberos authentication you will need an existing Kerberos KDC or Active Directory server, and we will need to create principals and keytabs for brokers and clients.
- For SSL/TLS, set up a trust store with either certificates or certificate authorities (CA).

## Prerequisites

- An existing deployment of Kafka version 0.9 or newer
- An understanding of your security requirements:
  - Do you need authentication, and if so, by SSL, SASL/Kerberos or SASL/Plain, OAUTH?
  - Do you need on-the-wire encryption? Between brokers? Between brokers and clients?
  - Do you need at-rest encryption for your data?
  - Do you need brokers to authenticate each other?
  - Do you need the client to authenticate the broker?
  - What security requirements do you have for other Confluent Platform components? Eg, Schema Registry, REST Proxy, ZooKeeper, Confluent Control Center
  - Who are the Kafka and Confluent Platform users? What privileges will they need?

## Who should attend?

Engineers and operations staff responsible for Kafka security.

## Engagement Location

Remote unless in conjunction with other Services amounting to 2 or more days onsite. If delivered on-site, in a room with a whiteboard and a screen, or projector.

# Engagement Activities

## Pre-engagement survey and kickoff call

- Align on engagement expectations and goals
- Confirm logistics

## Discuss your existing Confluent Platform or Kafka architecture and use cases

## Discuss your security requirement goals — encryption, authentication, and authorization

## Discuss implications of a rolling upgrade, if required

## Post-engagement report delivery

- Written summary of recommendations
- Survey and follow-up call

## Knowledge Transfer and Documentation

At the end of the project, the Confluent expert will provide a written summary of their recommendations, which may include:

1. An architecture design that matches your security requirements
2. A description of any configurations required to implement the architecture design
3. A deployment plan to guide you in implementing the design across your environments
4. Any additional recommendations that may be of use

## Outcomes

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

## Terms & Conditions

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

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