

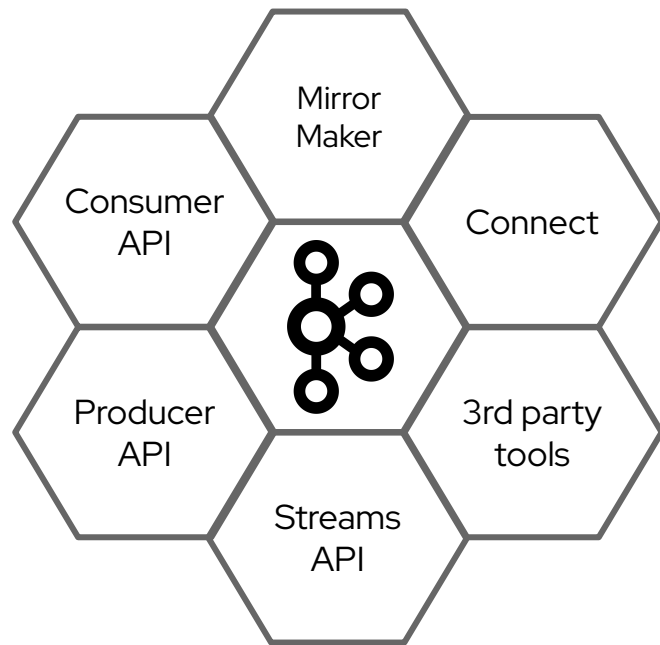
# Introduction to Strimzi: Apache Kafka on Kubernetes

Cloud Native + Open Source Virtual Summit China 2020

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# Apache Kafka

- Open Source project originally created by LinkedIn
  - publish/subscribe messaging system
  - data-streaming platform
  - distributed commit log
- Broader ecosystem more than just the broker
- Details on <http://kafka.apache.org>



# Why running on Kubernetes

- Apache Kafka
  - distributed by nature
  - workloads using Apache Kafka are also distributed and scalable
- Kubernetes
  - great abstraction for running software everywhere
  - enables cloud-native development
- Why not using the Kubernetes knowledge to run Apache Kafka?

# Strimzi

- Open source project licensed under Apache License 2.0
- Focuses on running Apache Kafka on Kubernetes
  - Container images for Apache Kafka, Apache ZooKeeper and other components
  - Operators for deploying, managing and configuring Kafka clusters
- Provides a Kubernetes-native experience
  - Not only Kafka clusters, but also users, topics and the rest of Kafka ecosystem
- CNCF sandbox project since September 2019

# Kafka Custom Resources

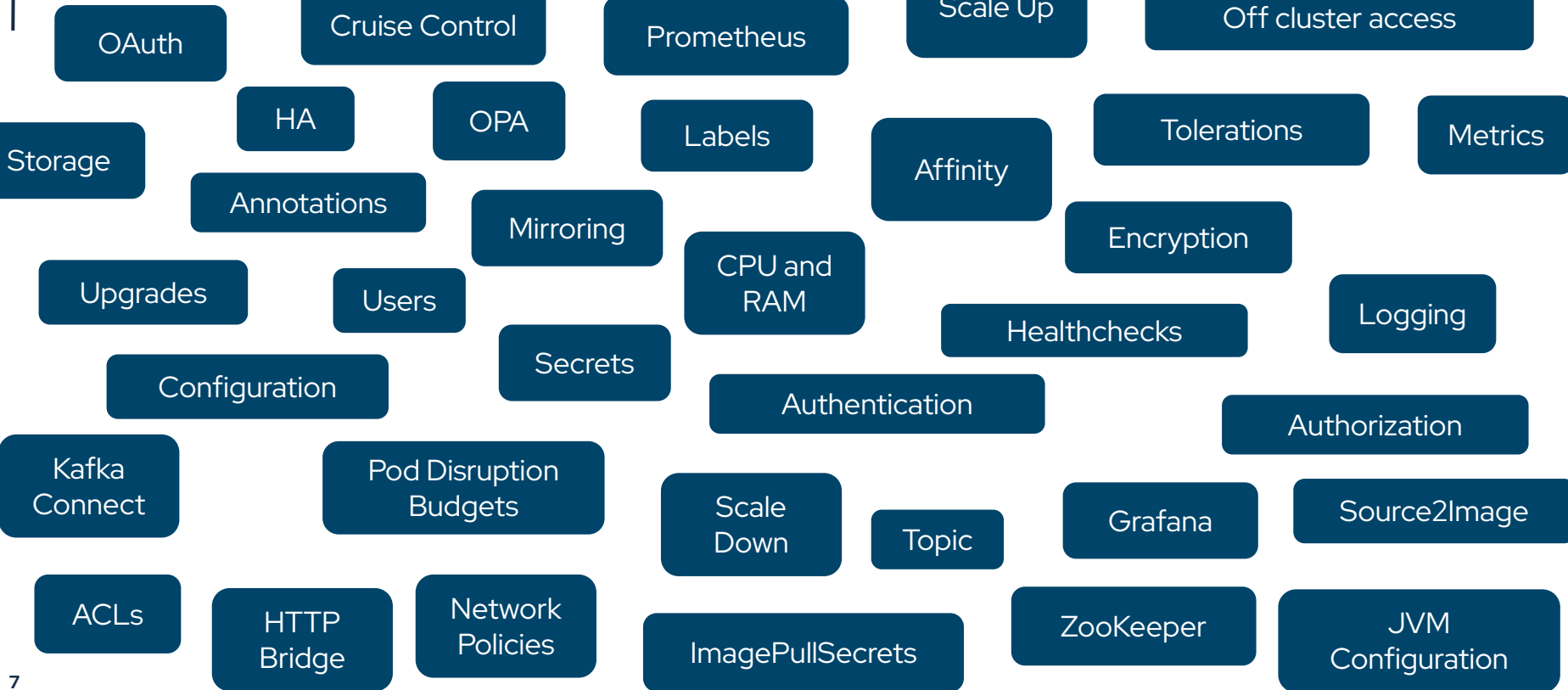
- Kafka is a Kubernetes native resource
- ... as well as the other components
  - KafkaUser and KafkaTopic for handling users and topics
  - KafkaConnect and KafkaConnector for handling a Kafka Connect deployment
  - KafkaBridge for enabling HTTP access to the cluster
  - KafkaMirrorMaker and KafkaMirrorMaker2 for mirroring data across clusters
  - KafkaRebalance for rebalancing the cluster through Cruise Control

# Demo

<https://bit.ly/38Qxbze>

- Operator Installation
- Kafka cluster
- Kafka topic and user
- Hello World application

## Introduction to Strimzi: Apache Kafka on Kubernetes





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JAEGER



Prometheus



OPENTRACING

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# Thank you