

Introduction to Strimzi: Apache Kafka on Kubernetes

KubeCon + CloudNativeCon Europe 2020

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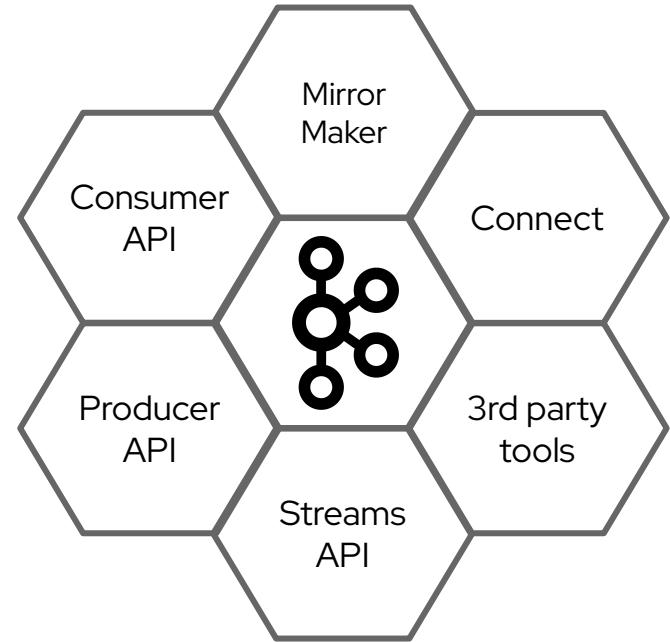
Paolo Patierno, *Strimzi maintainer, @ppatierno*

<https://strimzi.io>



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

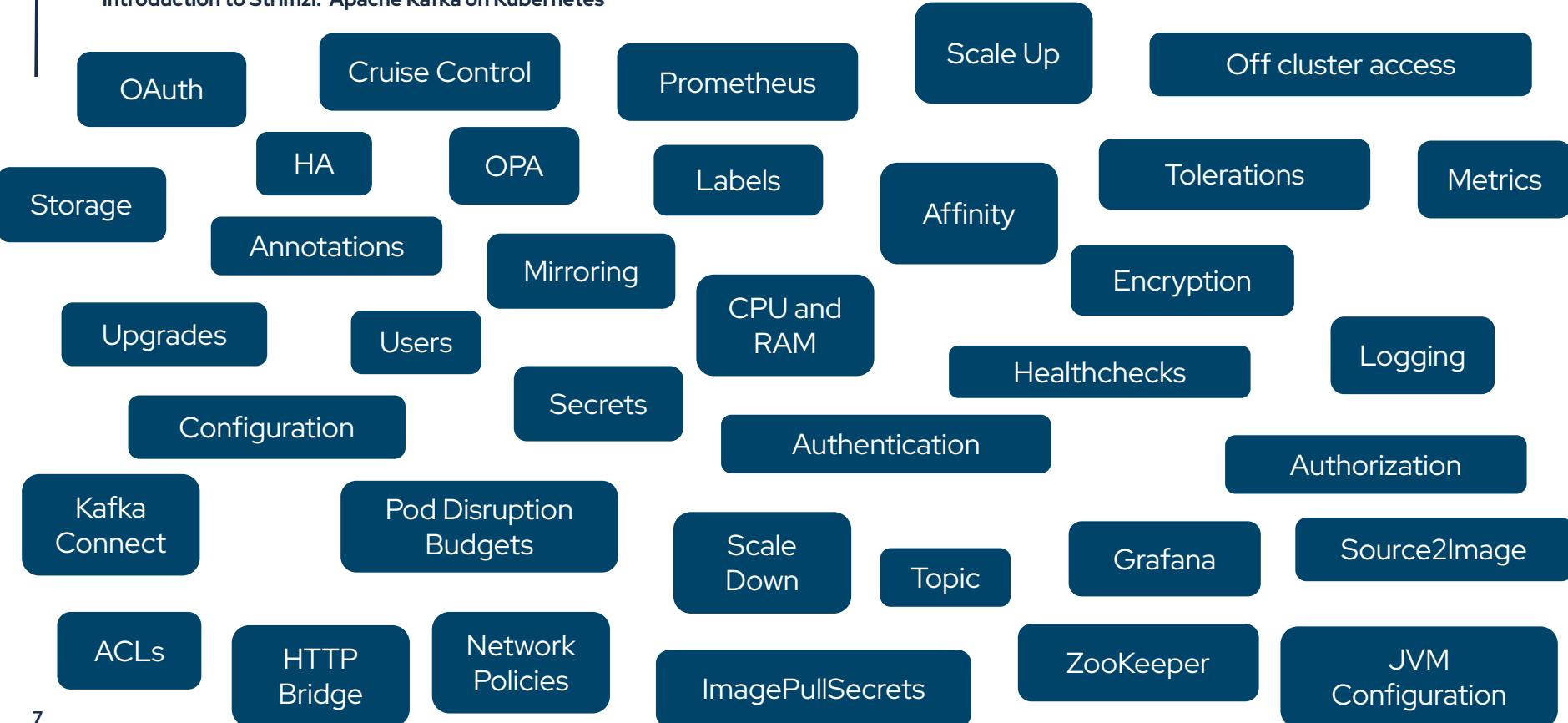
Kafka Custom Resources

- 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

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

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kubernetes



JAEGER

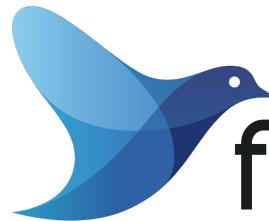


Prometheus



OPENTRACING

KEDA



fluentd



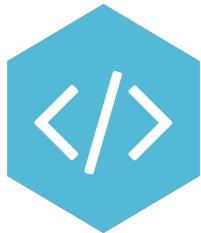
Open Policy Agent



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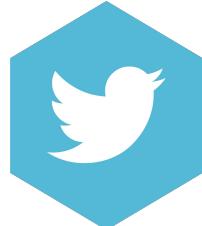
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Thank you