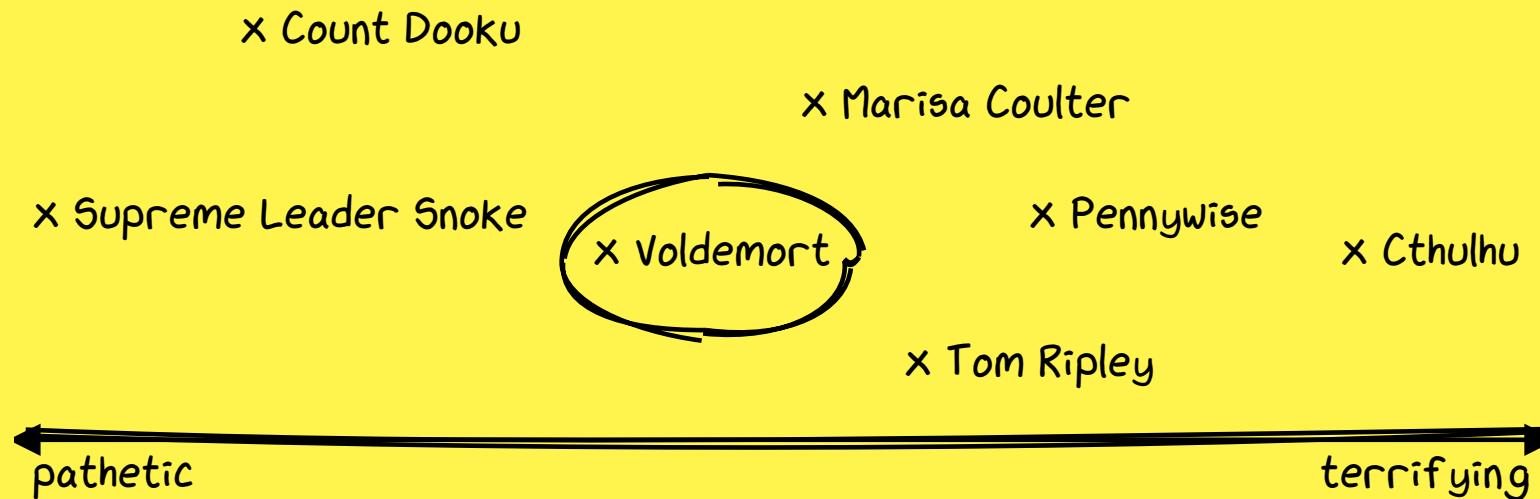
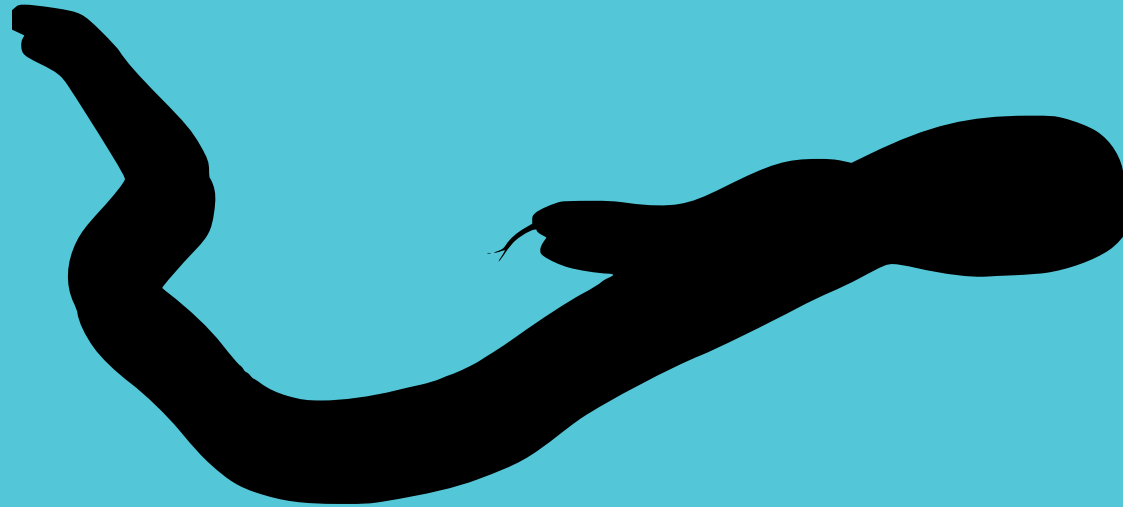


WHAT
KUBERNETES
AND
VOLDEMORT
HAVE IN COMMON

THE VILLAIN'S DILEMMA



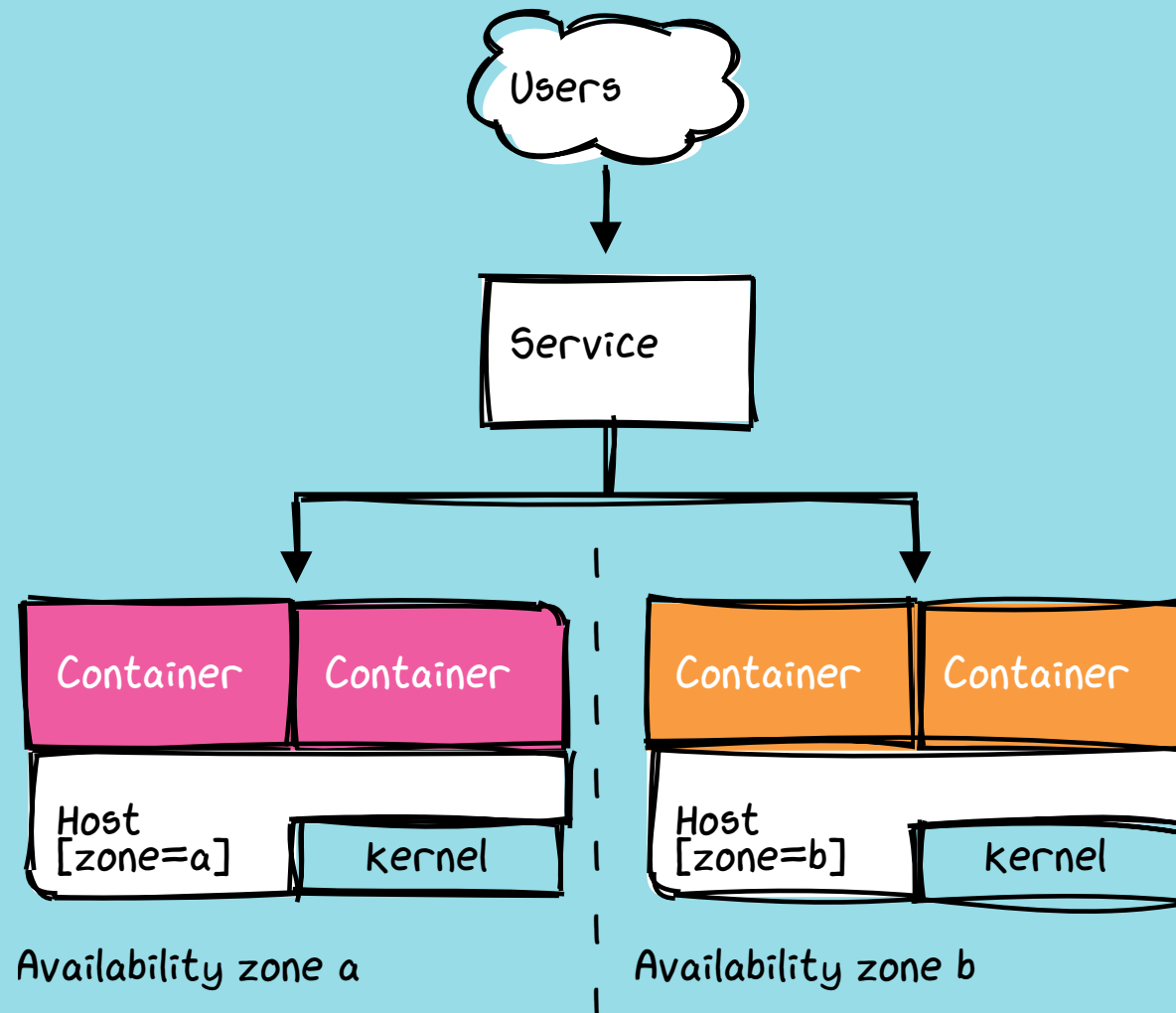
THE HORCRUX STRATEGY



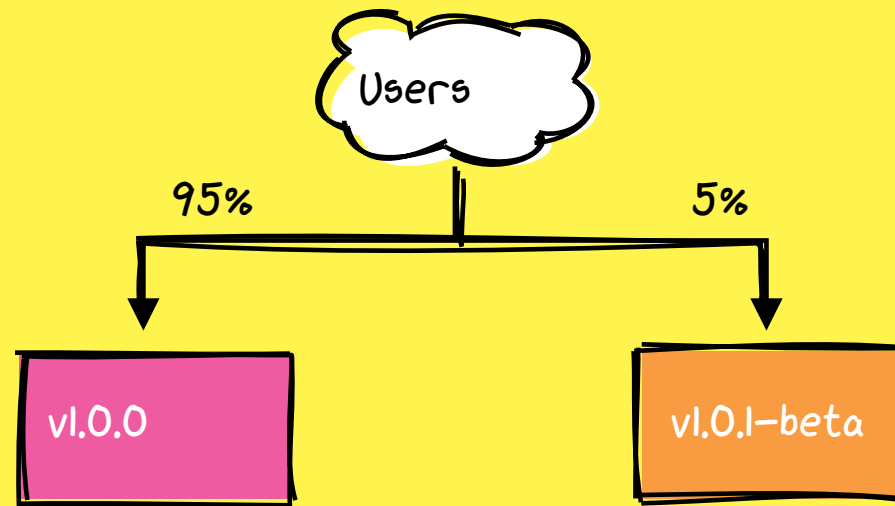
Source: [Pixabay](#)

ORCHESTRATION “WARS”

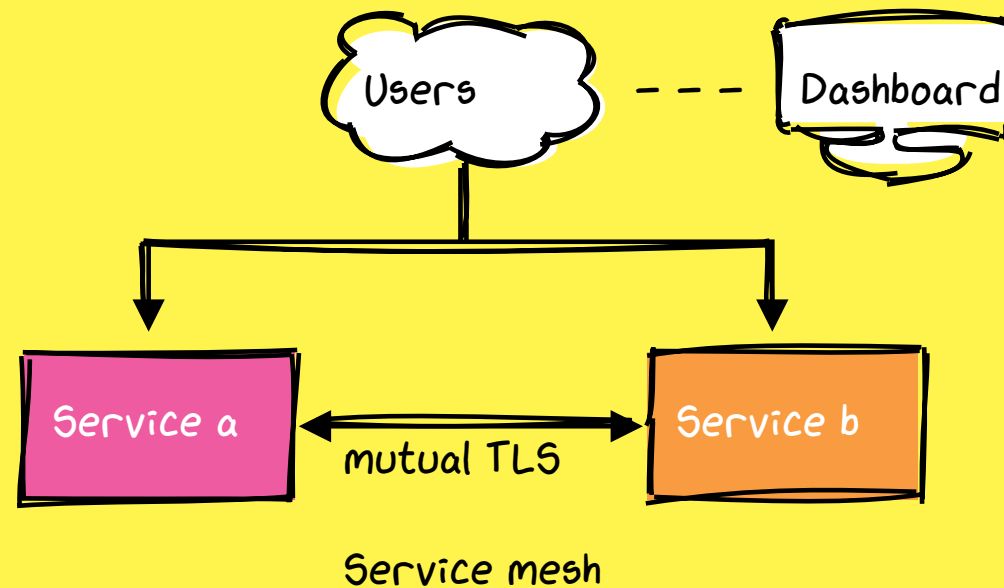
DISTRIBUTED DEPLOYMENT



CANARY DEPLOYMENT

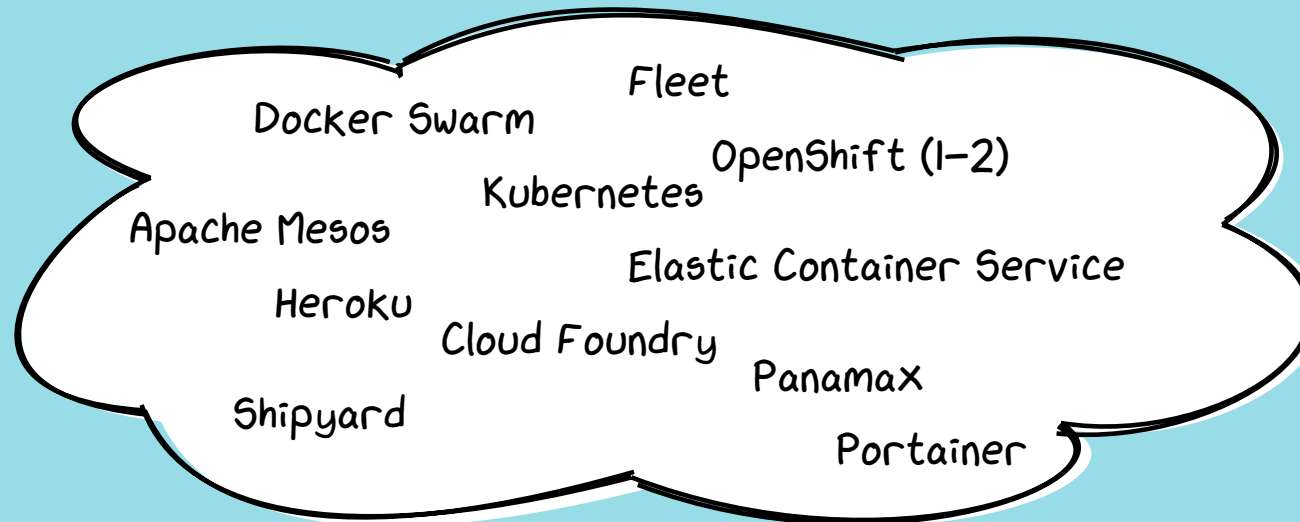


ZERO TRUST DEPLOYMENT



THE COMPETITIVE ENVIRONMENT

ALL HAPPY FAMILIES



SPLENDID ISOLATION



Kubernetes

THE HORCRUX STRATEGY

VENDOR SHARDING

Microsoft

IBM
Red Hat
CoreOS

Google

VMware

Alibaba

Cloud Native Computing Foundation (CNCF)

PRECONDITIONS

open source

neutral IP ownership

extensibility

PRECONDITIONS

open source – MIT

neutral IP ownership

extensibility

A suitably permissive license is a necessary but not sufficient precondition.

PRECONDITIONS

open source – MIT

neutral IP ownership – CNCF

extensibility

K8s would **not** be what it is today without neutral IP ownership... K8s has spawned an entire ecosystem **because** it can be used by consuming projects/products without fear.

– Matt Klein

Source: [@mattklein123](#) on Twitter, 17 February 2020.

PRECONDITIONS

open source – MIT

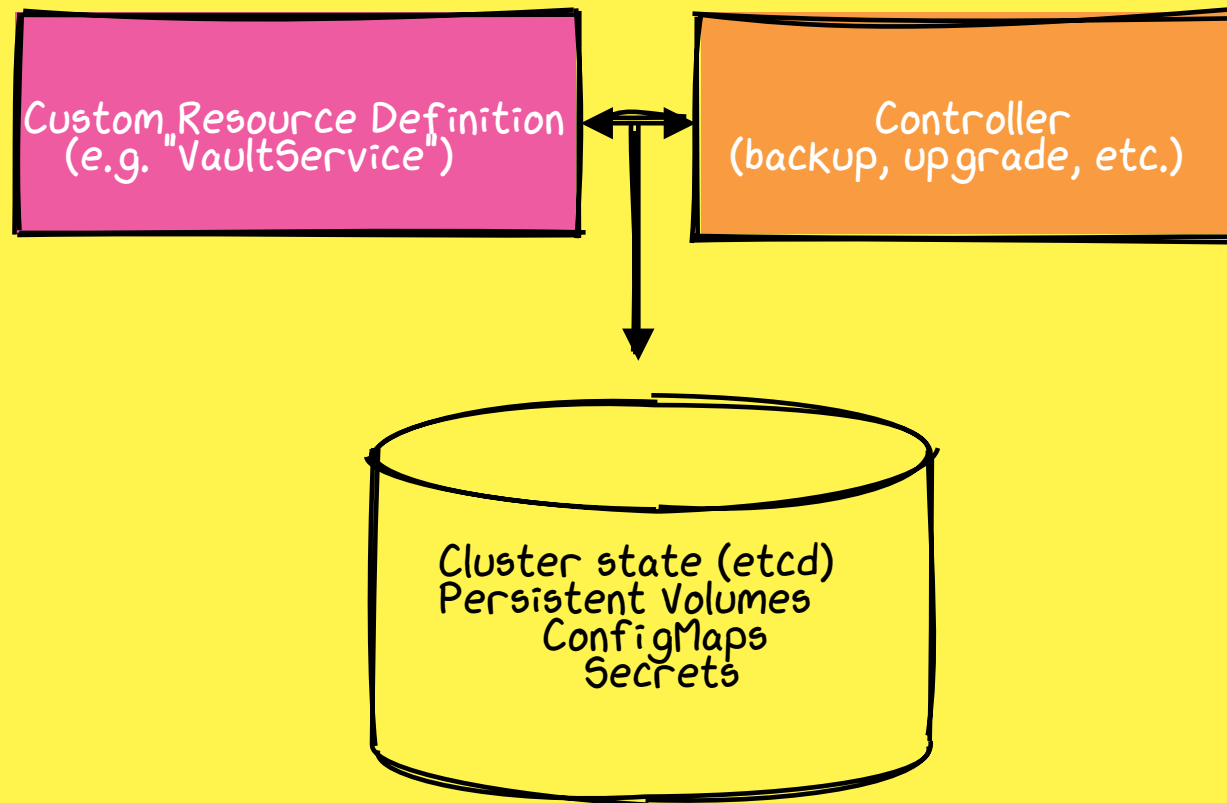
neutral IP ownership – CNCF

extensibility – controllers and operators

Controllers add custom processing to the core reconciliation loop.

When paired with custom resource definitions, they are known as **operators**.

OPERATORS



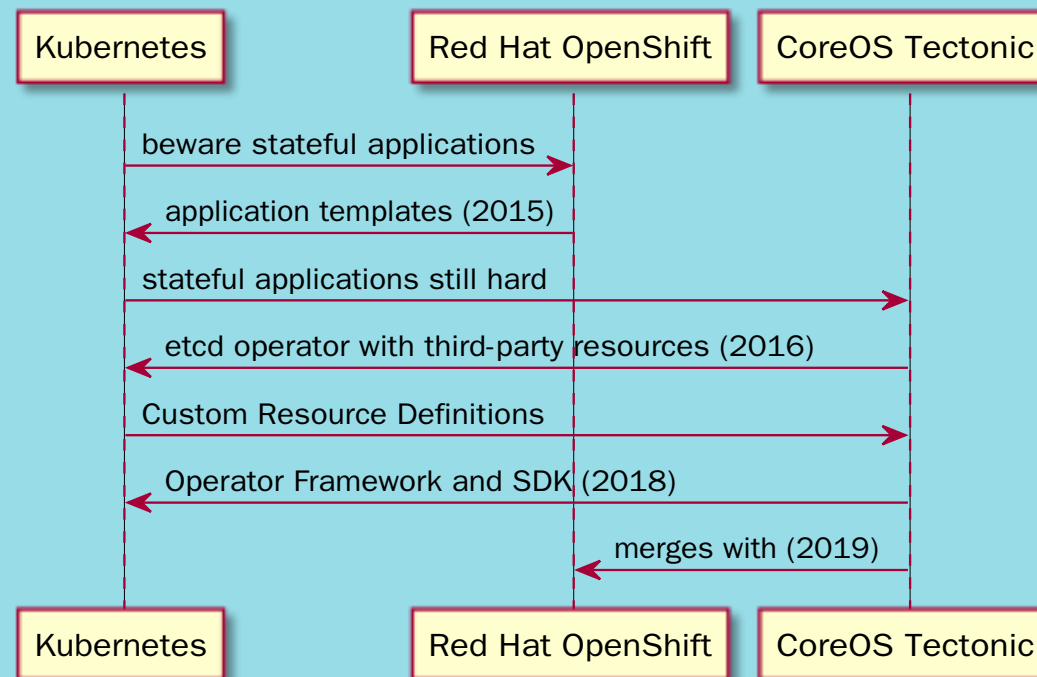
STATEFUL WORKLOADS

Stateless is Easy, Stateful is Hard.

– Brandon Philips (2016)

Source: coreos.com/blog/introducing-operators.html

PIZZA EFFECTS



CORPORATE SPONSORS

Vault operator



MySQL operator

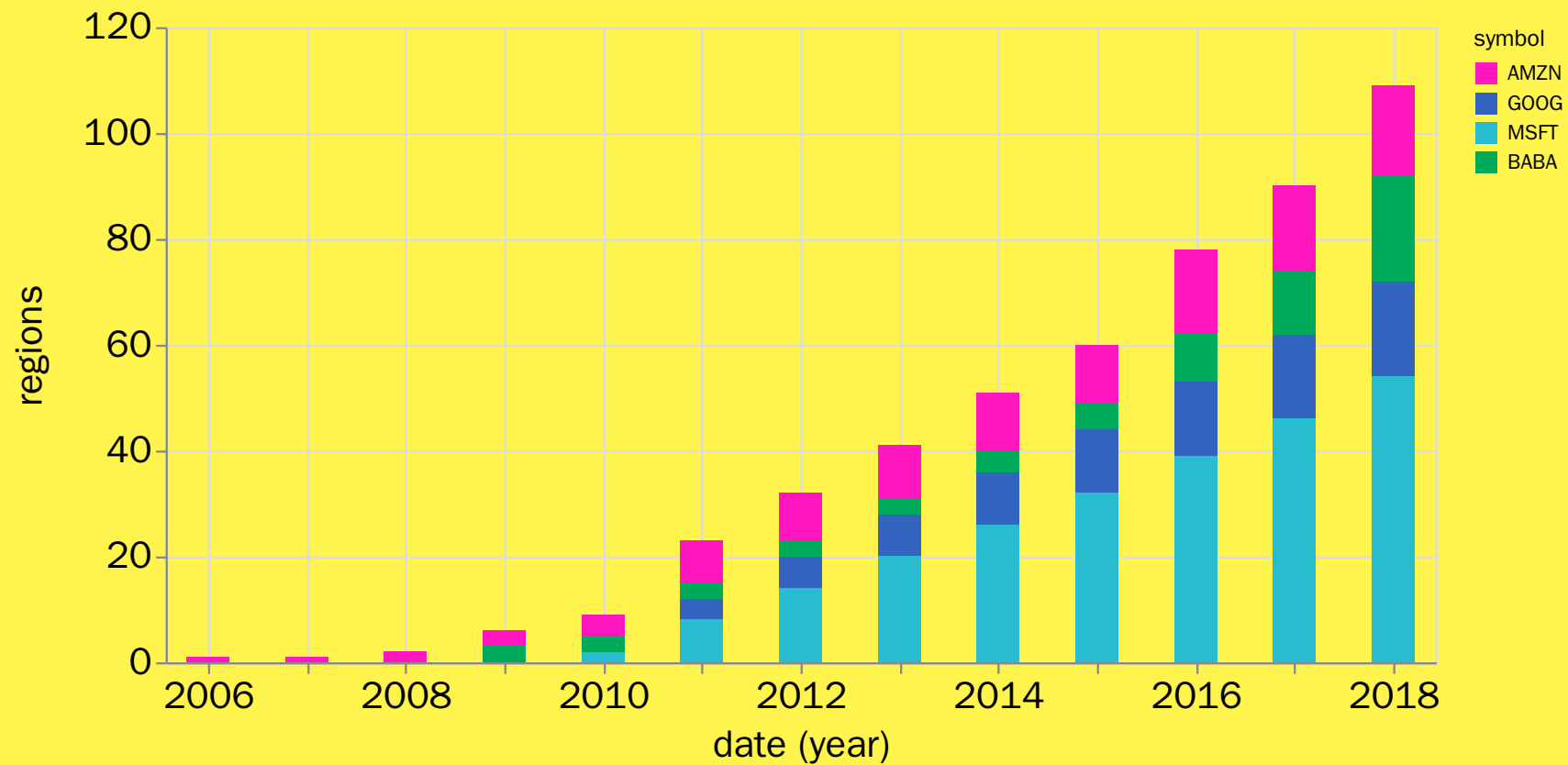


PostgreSQL operator

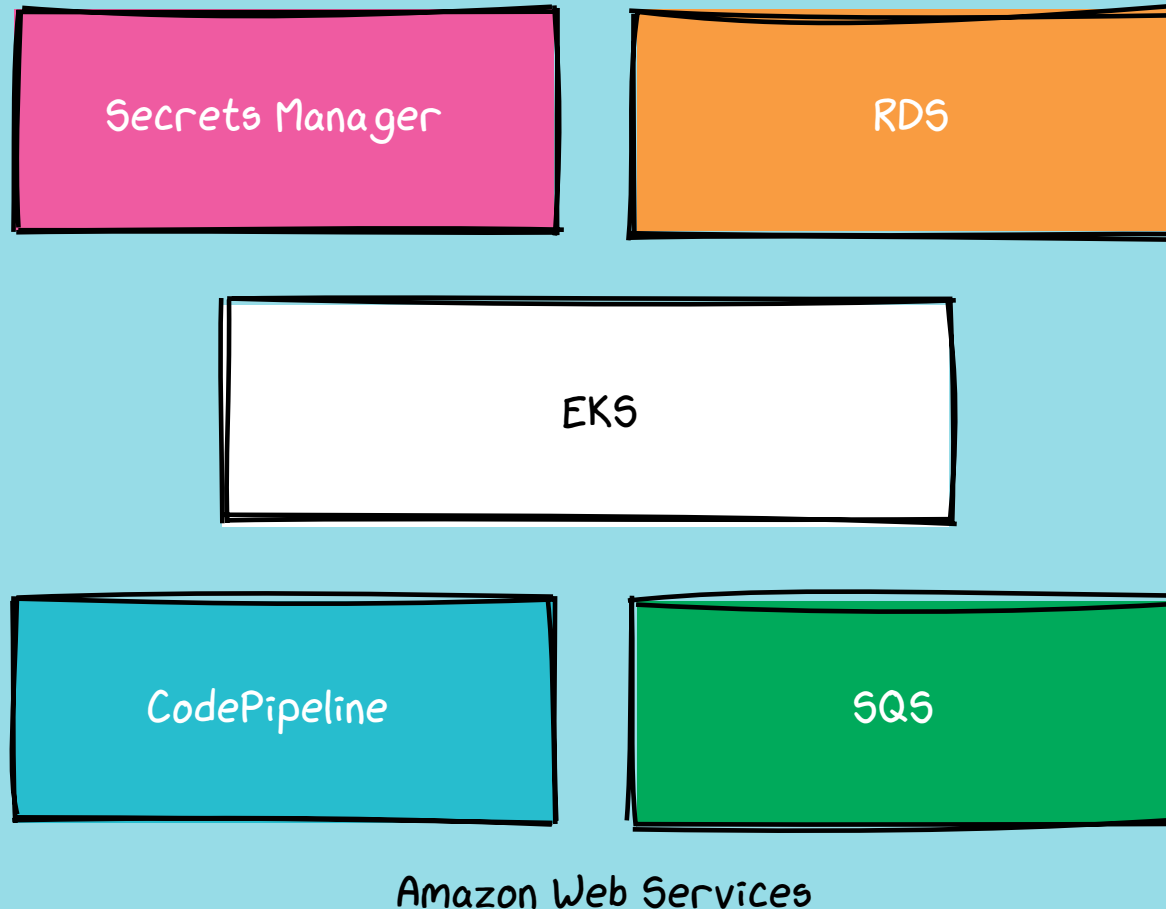


MEANWHILE IN THE CLOUD

FIRST MOVER ADVANTAGE



A VERY PUBLIC BREAKUP



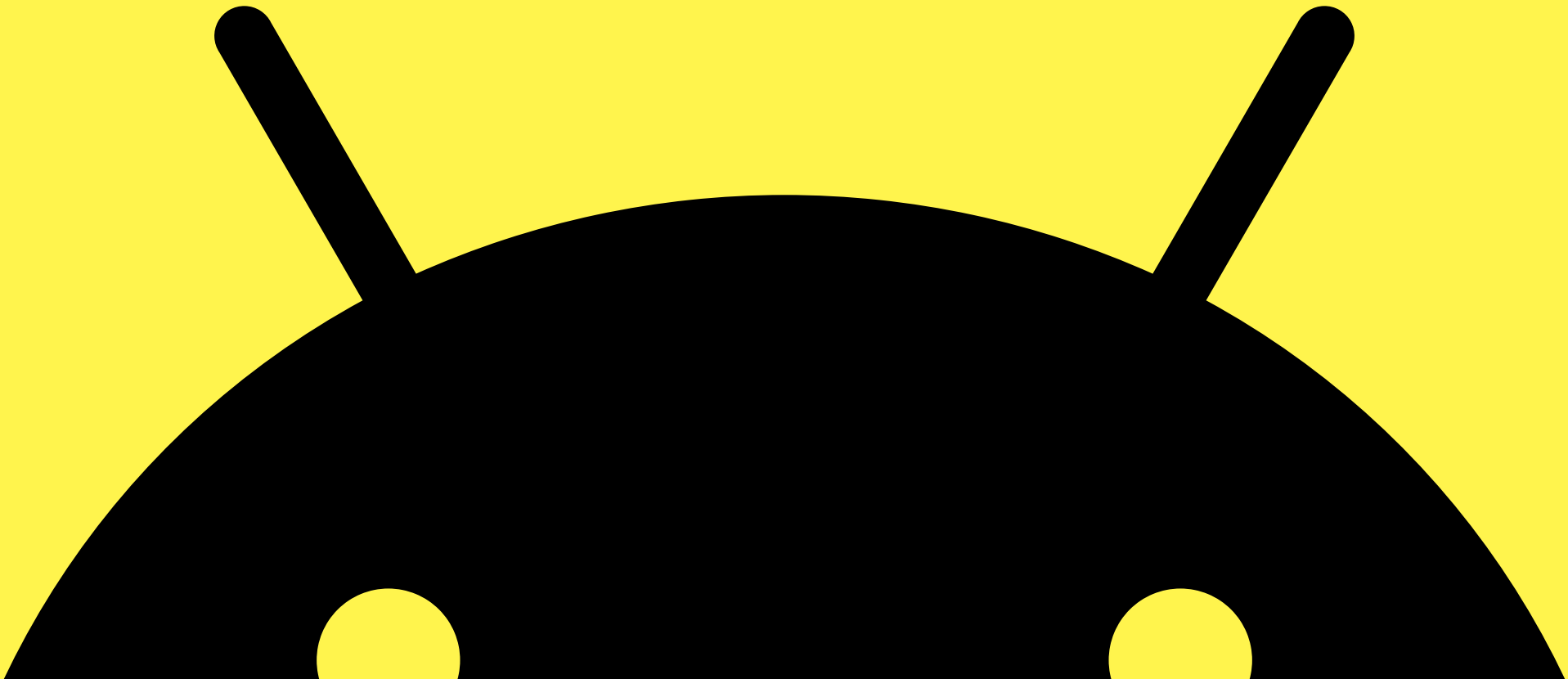
AWS perfected the use of services based on open source products.

In 2016 MongoDB responded with the [Server Side Public License](#).

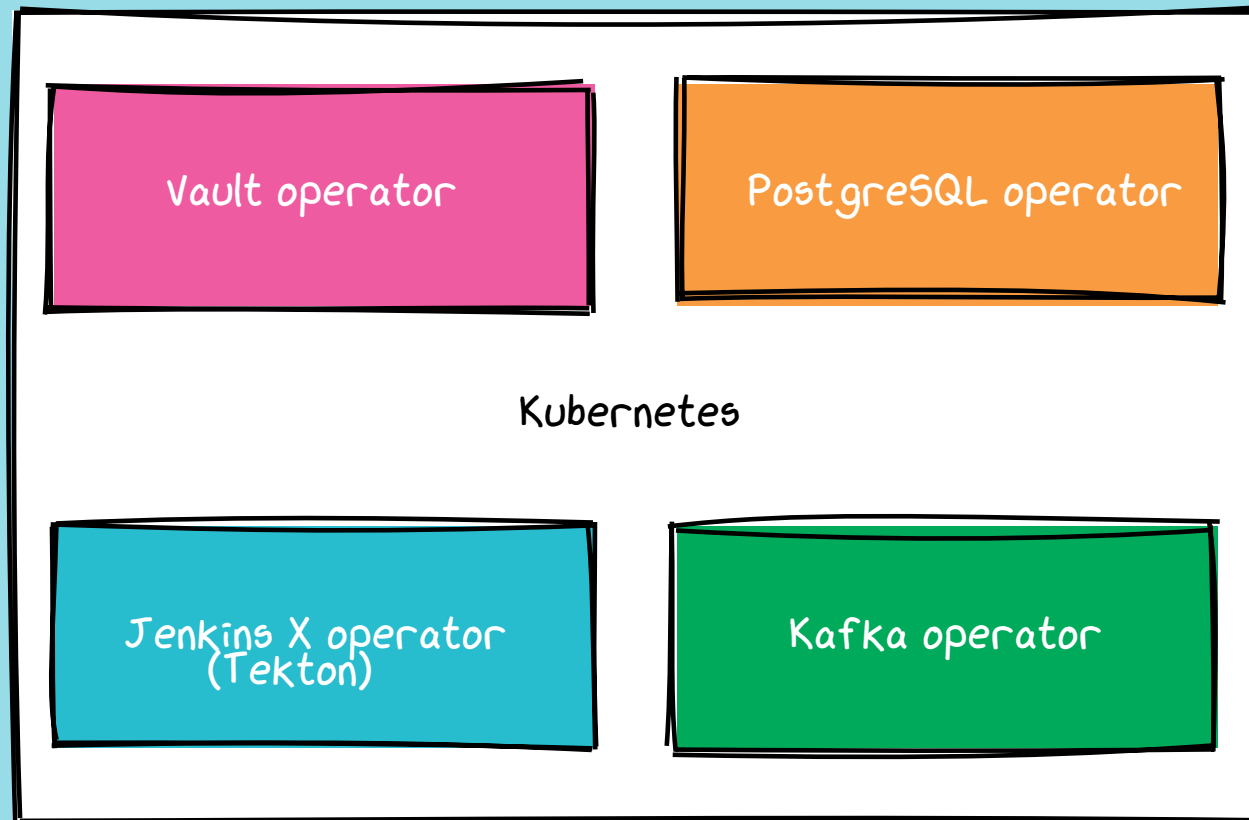
TRADE WAR

Alibaba Cloud became a CNCF Gold Member and upgraded to Platinum in 2017.

Alibaba affiliate Ant Financial, Baidu and Tencent also became Gold Members.



HORCRUX LIFE



Any cloud offering a managed Kubernetes service

ASPIRING CLOUD VENDORS

IS THE HORCRUX LIFE FOR ME?

Did AWS steal a multi-year march on you?

Are you at risk of US trade sanctions?

Are you a bazaar kind of company?

YES!	NOPE
✓	X
✓	?
✓	?

THANK YOU

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Twitter [@03spirit](https://twitter.com/03spirit)