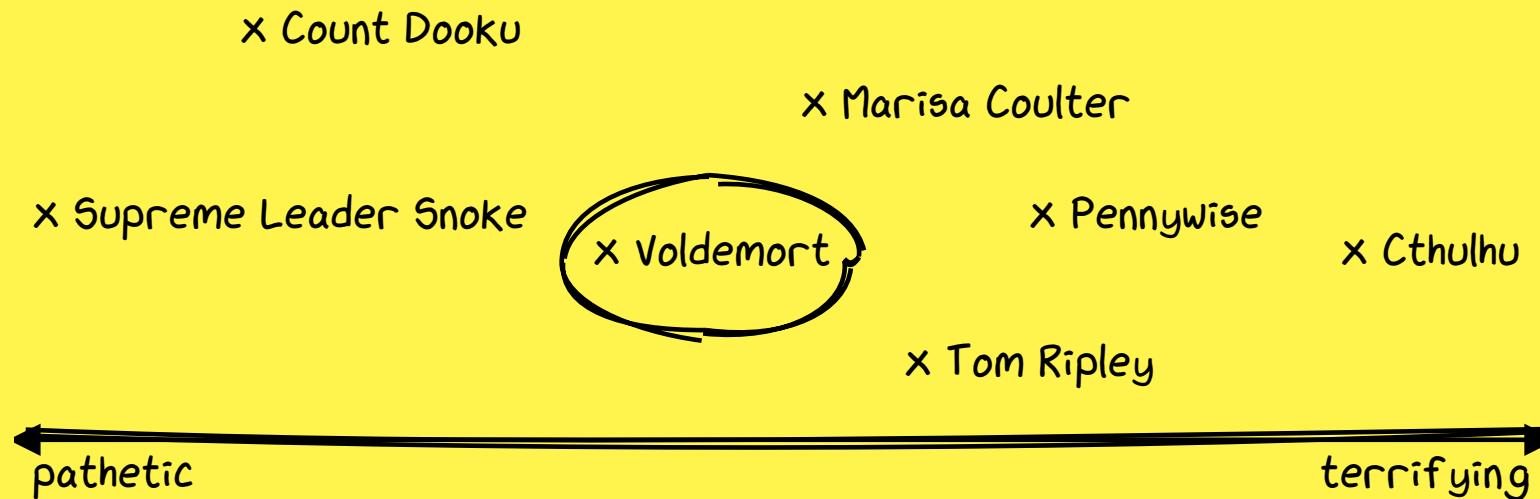
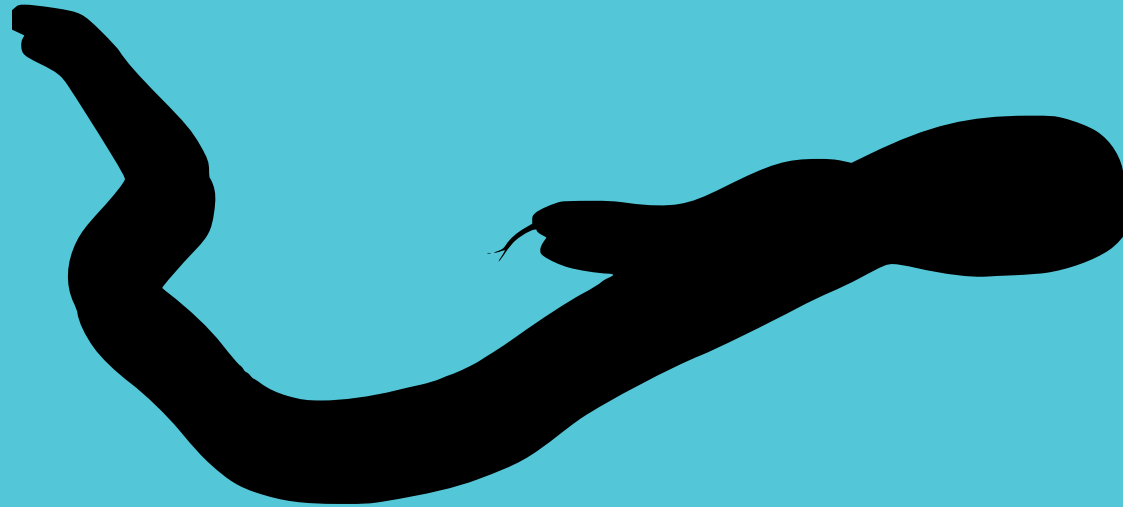


WHAT  
KUBERNETES  
AND  
VOLDEMORT  
HAVE IN COMMON

# THE VILLAIN'S DILEMMA



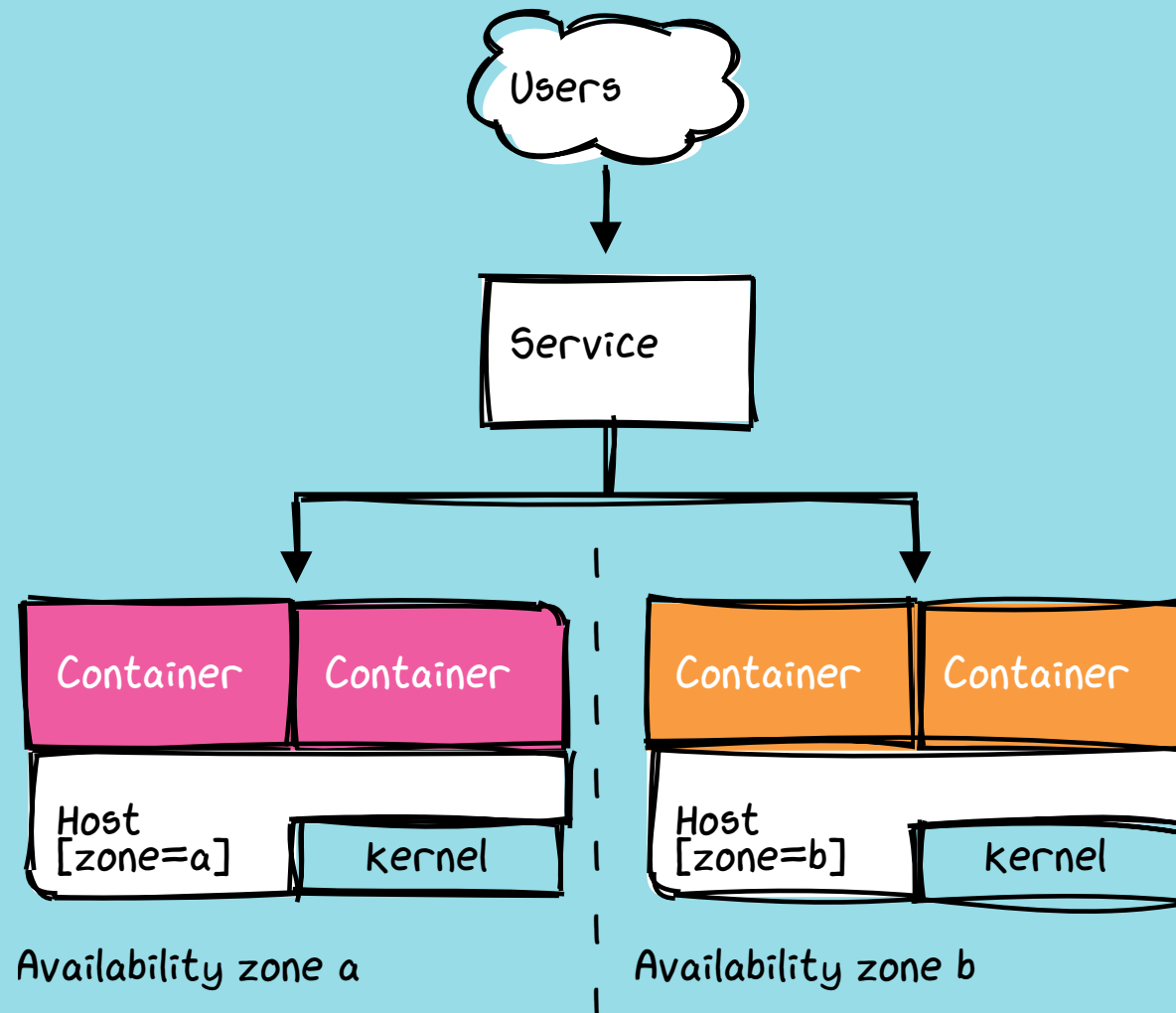
# THE HORCRUX STRATEGY



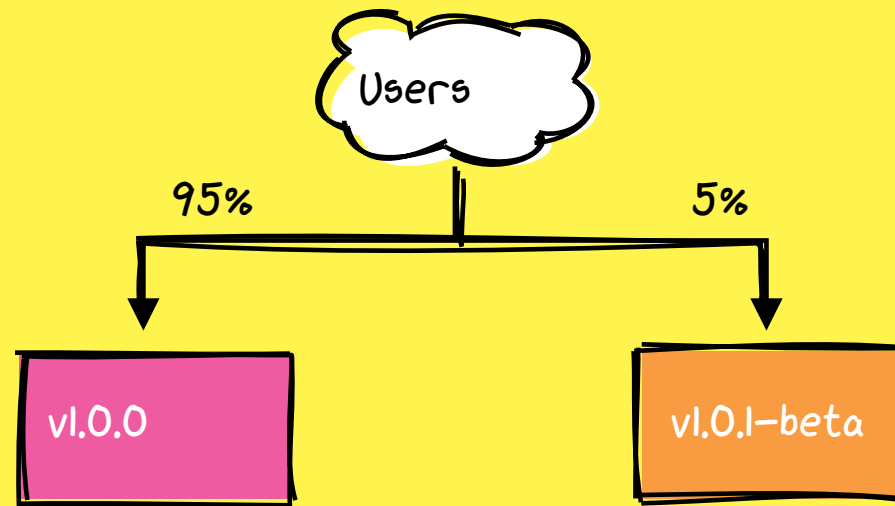
Source: [Pixabay](#)

# ORCHESTRATION “WARS”

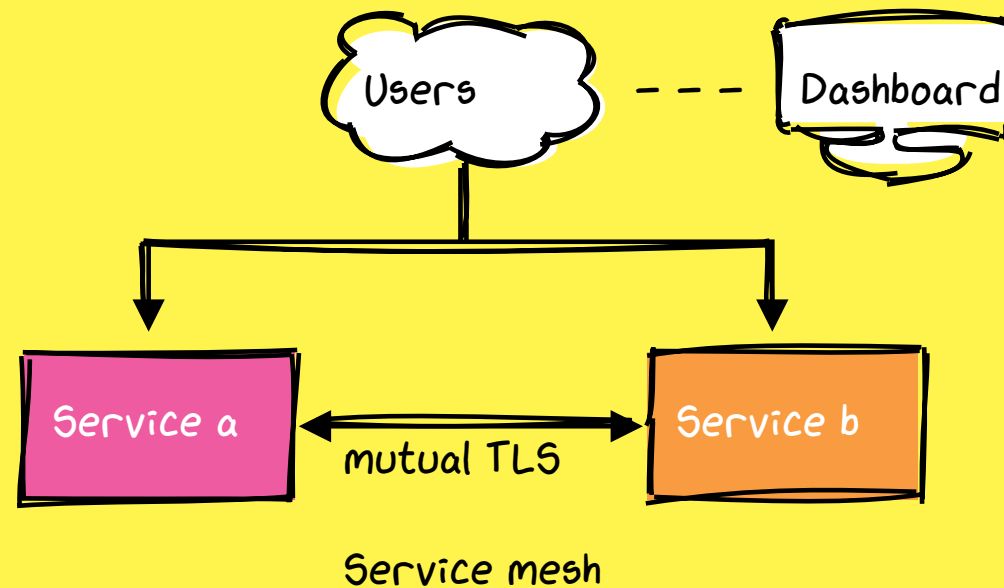
# DISTRIBUTED DEPLOYMENT



# CANARY DEPLOYMENT



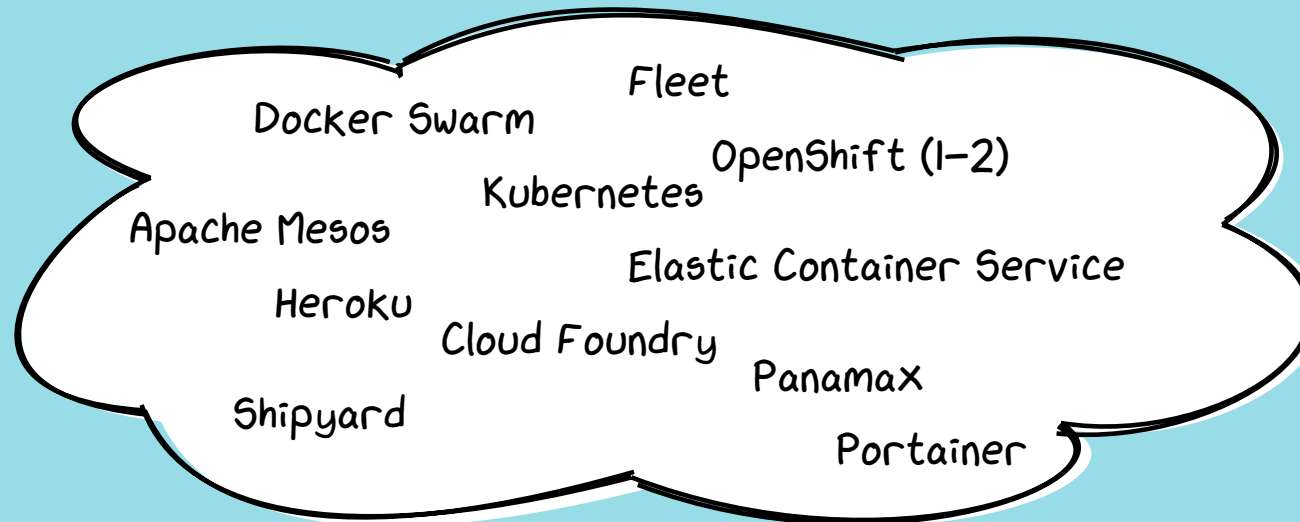
# ZERO TRUST DEPLOYMENT



# 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

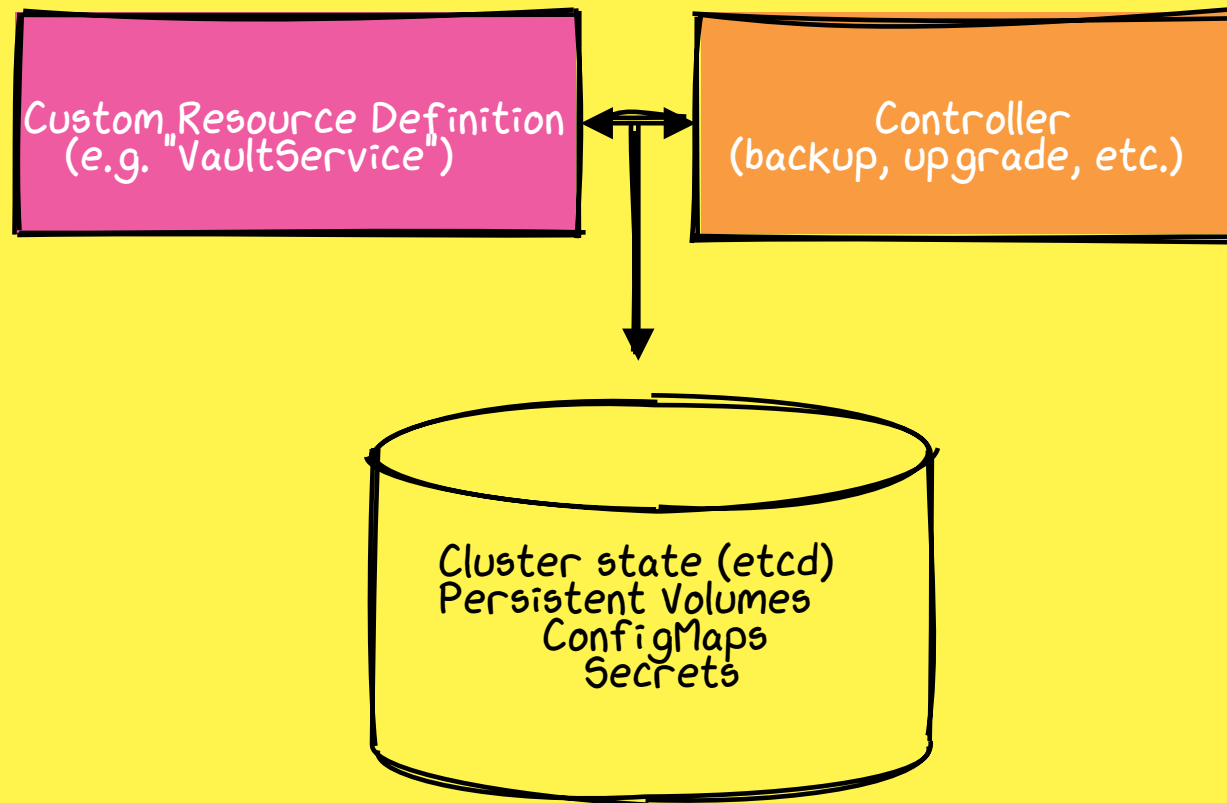
extensibility – controllers and operators

**Controllers** add custom processing to the core reconciliation loop.

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



# OPERATORS



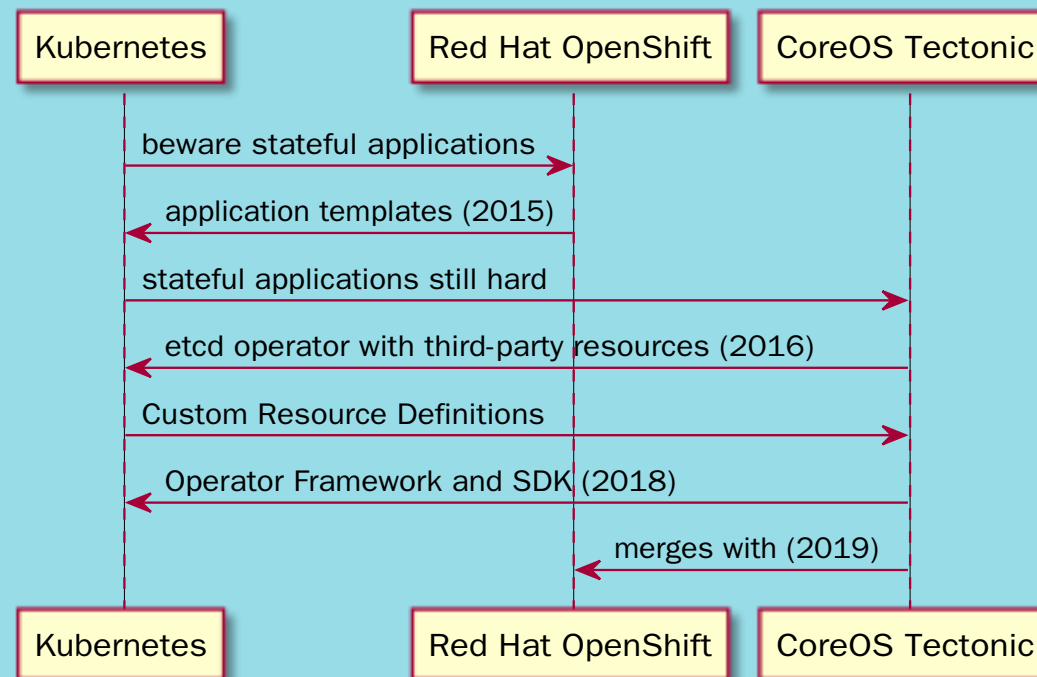
# STATEFUL WORKLOADS

Stateless is Easy, Stateful is Hard.

– Brandon Philips (2016)

Source: [coreos.com/blog/introducing-operators.html](https://coreos.com/blog/introducing-operators.html)

# PIZZA EFFECTS



# CORPORATE SPONSORS

Vault operator



MySQL operator

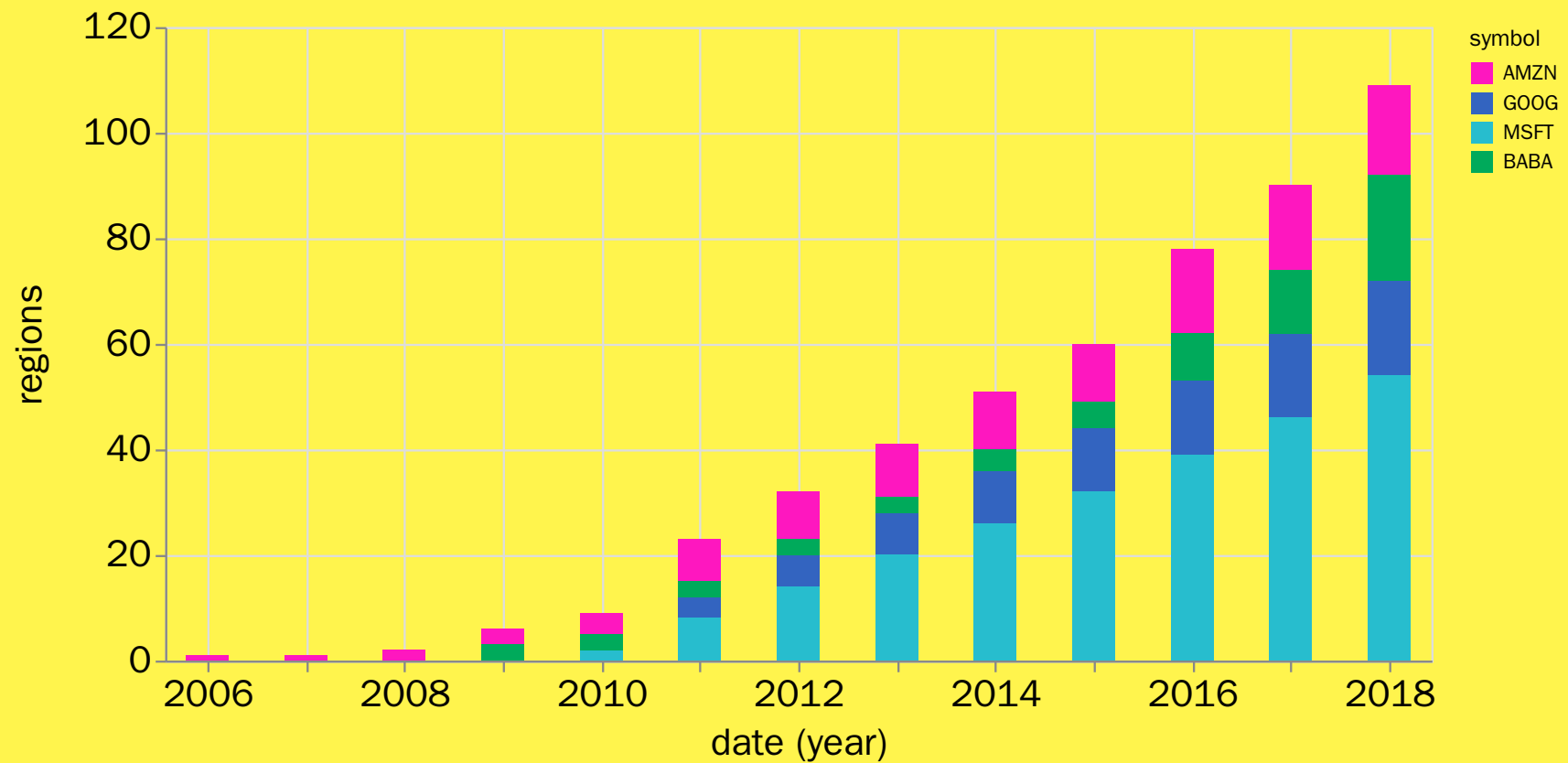


PostgreSQL operator

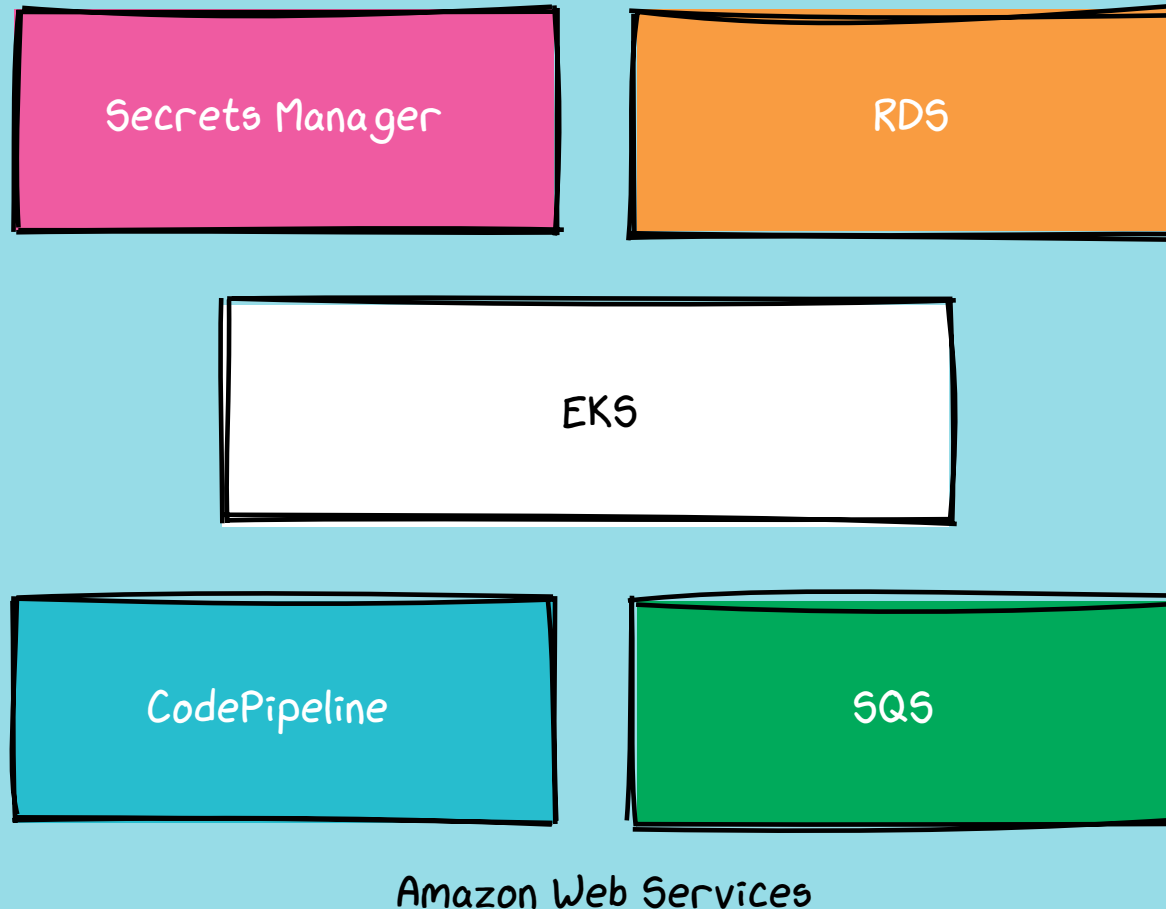


MEANWHILE IN THE CLOUD

# FIRST MOVER ADVANTAGE



# A VERY PUBLIC BREAKUP



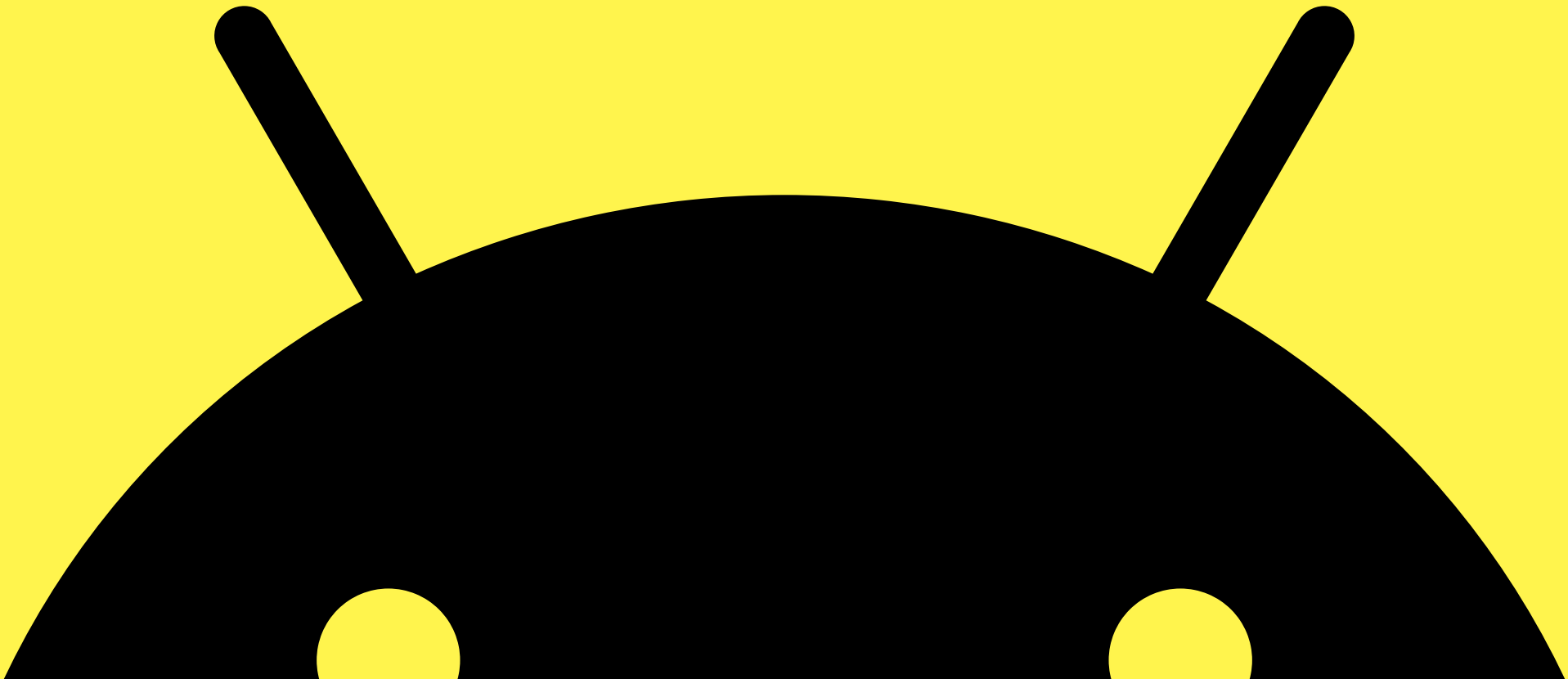
AWS perfected the use of services based on open source products.

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

# TRADE WAR

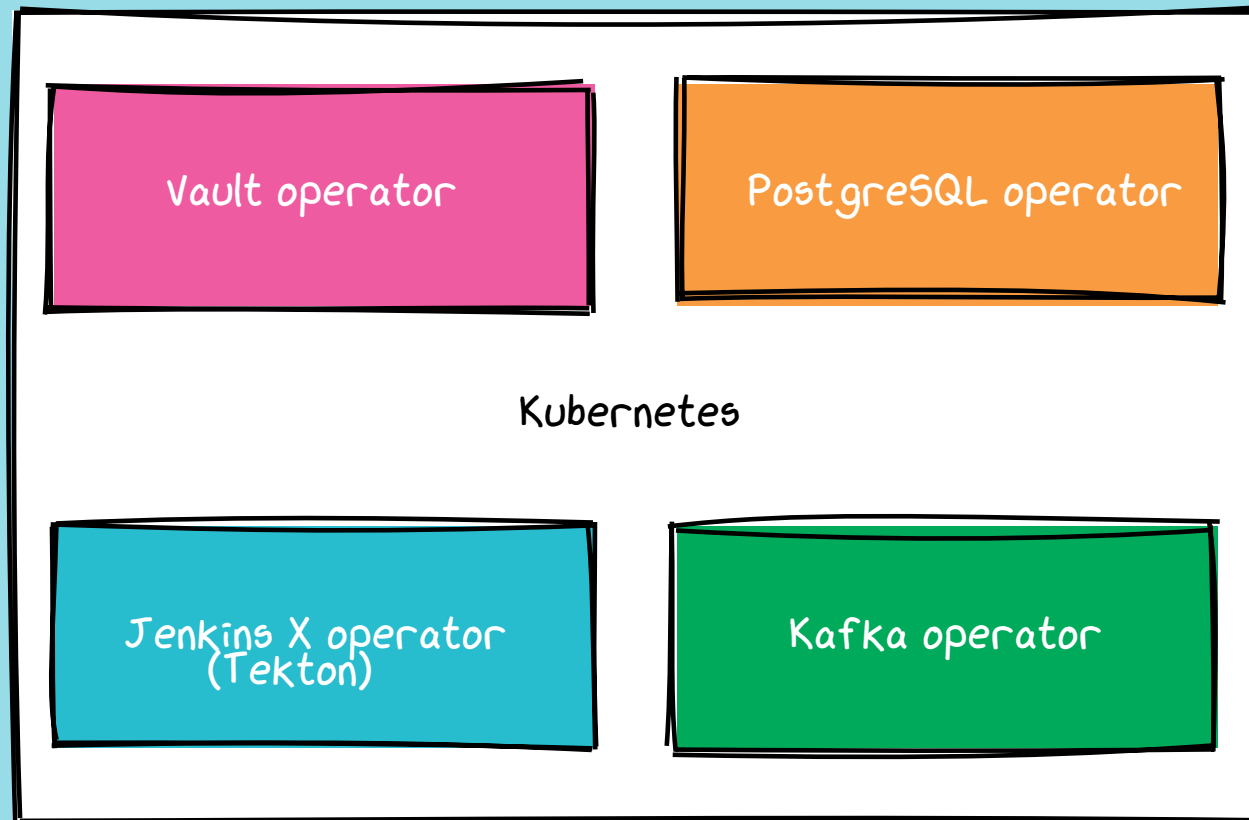
Alibaba Cloud became a CNCF Gold Member and upgraded to Platinum in 2017.

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

Slides built with Markdeck  
GitHub [gerald1248/kubernetes-horcrux-slides](https://github.com/gerald1248/kubernetes-horcrux-slides)  
Twitter [@03spirit](https://twitter.com/03spirit)