

When Life Gives You Containers, Make an Open Source RDS: A Kubernetes Love Story <3

Sergey Pronin

Founder @ Solanica | Maintainer @ OpenEverest

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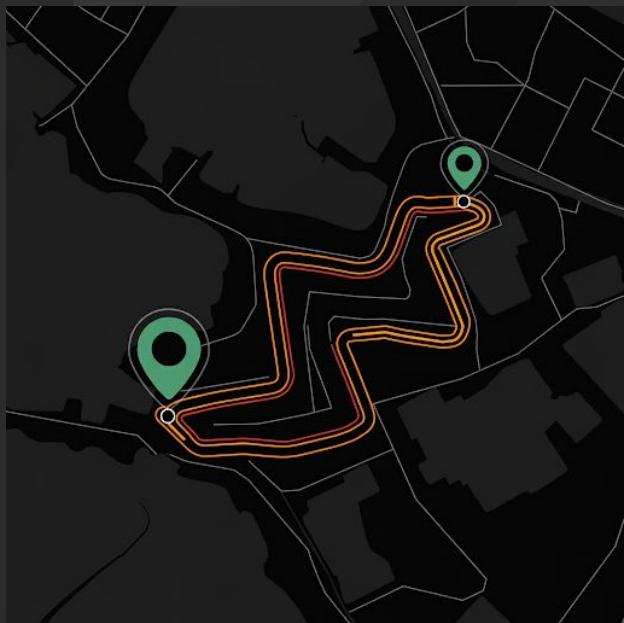
We are emotional



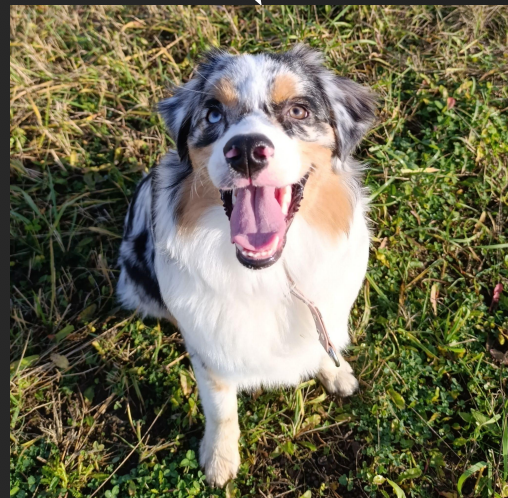
- **Complex emotions**
- **Subjectivity of experience**
- **Emotions are contagious**
- **We have a “negativity bias”**

In this talk

Our journey



Emotional transition



Databases on Kubernetes ;)

The Whys



- Strategy
 - Cloud neutrality
 - No vendor-lock
- Cost
- Automation

Common fears



Performance



Maturity



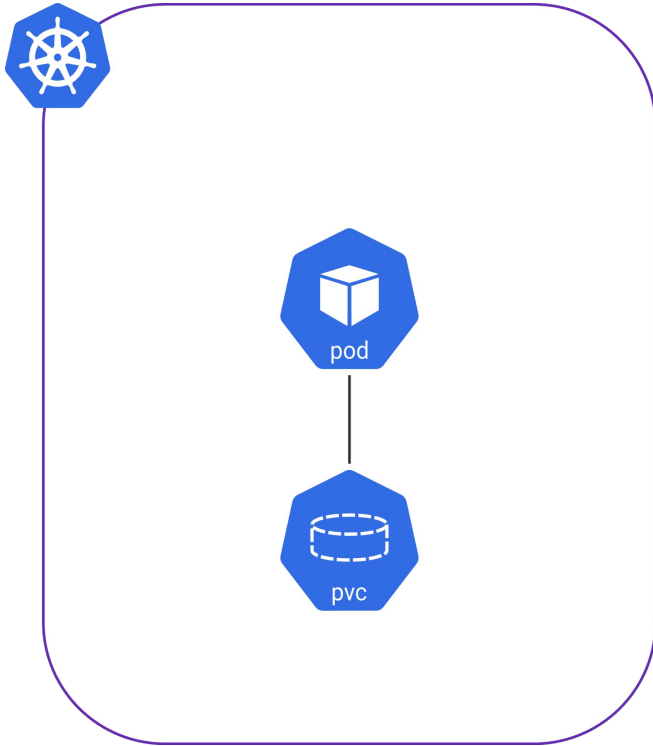
Complexity

Chapter 1: enthusiasm and k8s 101

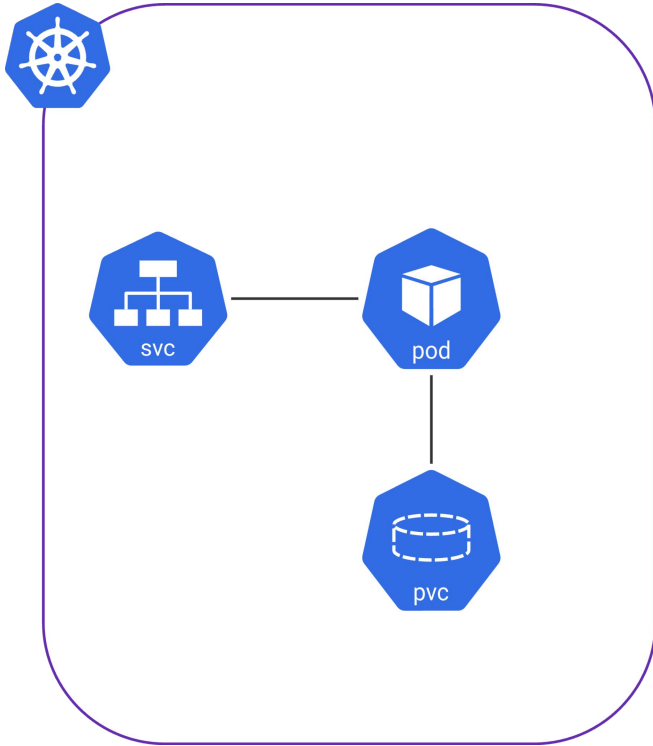
Your first database



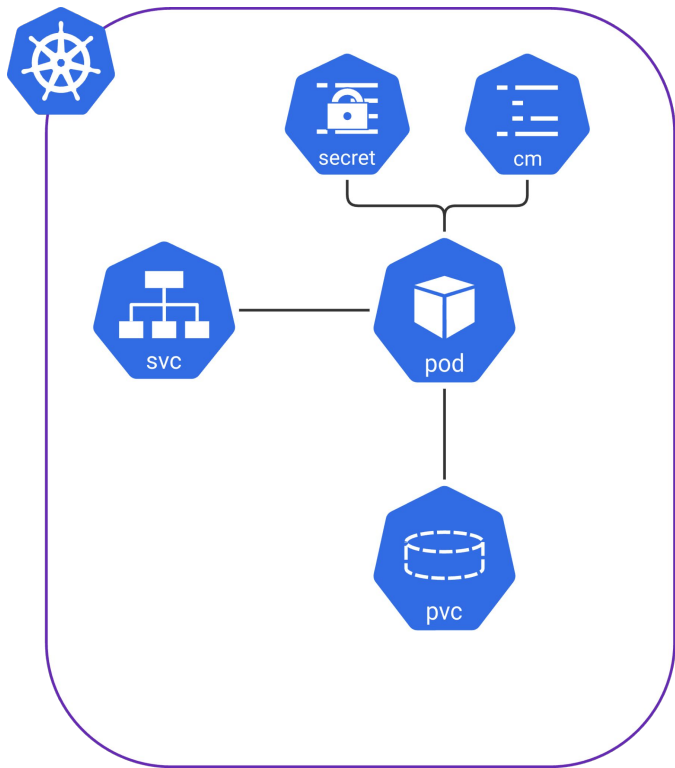
Your first database



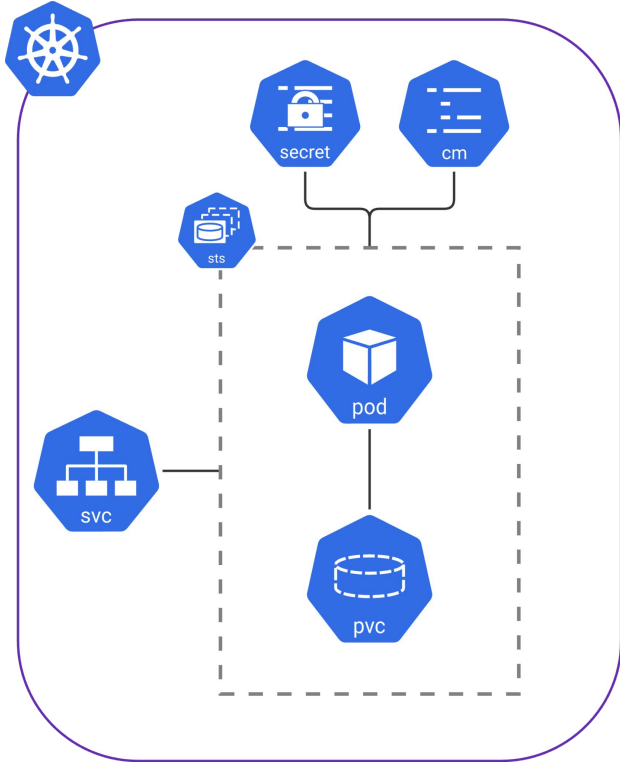
Your first database



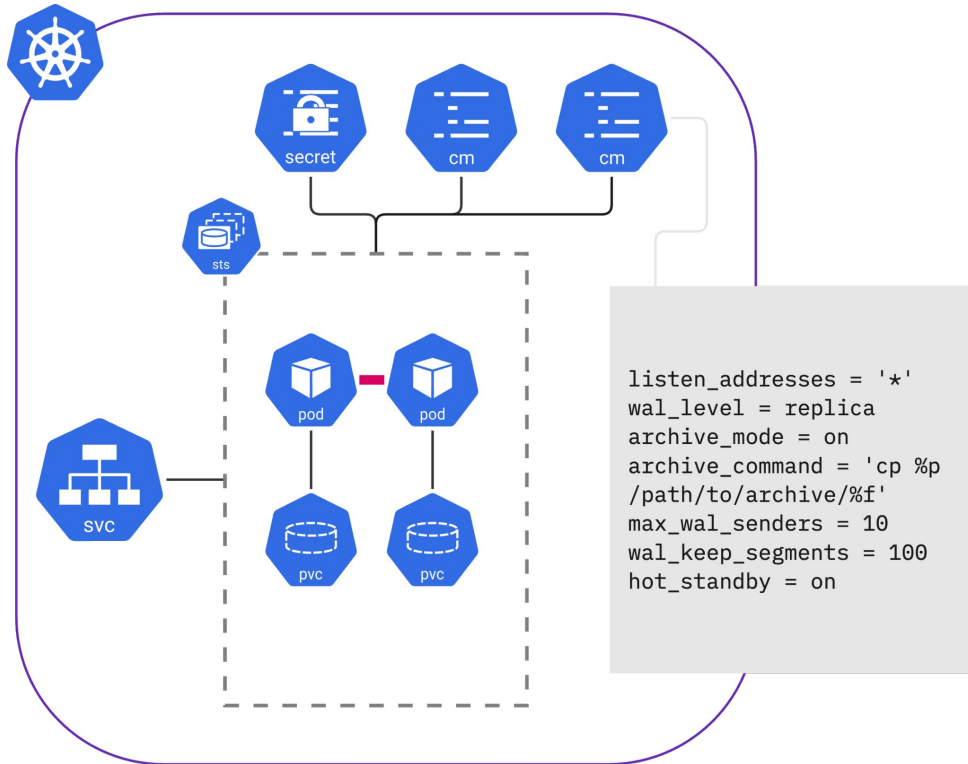
Your first database



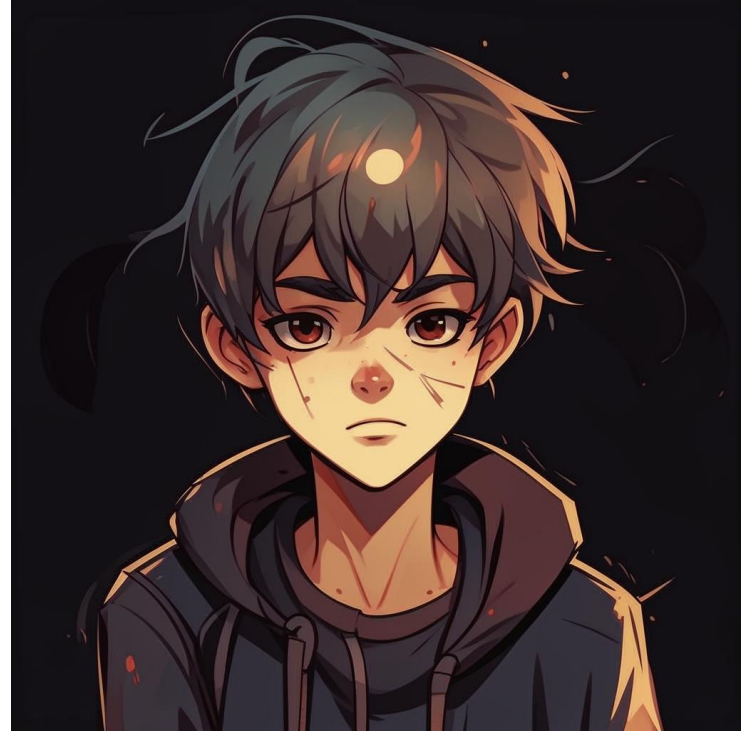
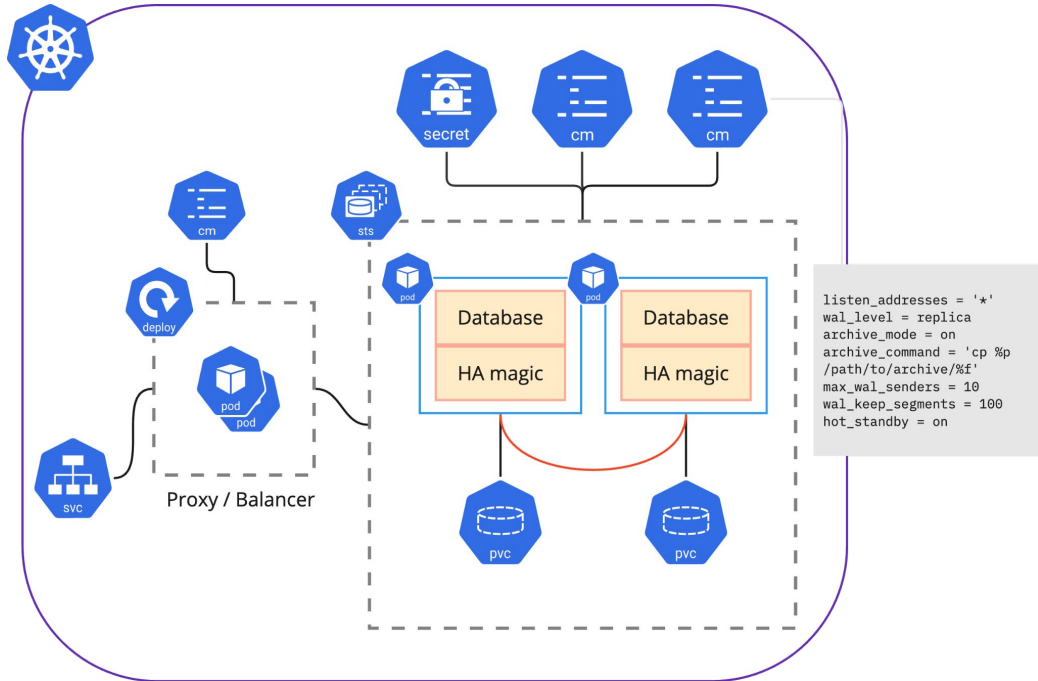
Your first database



I need HA



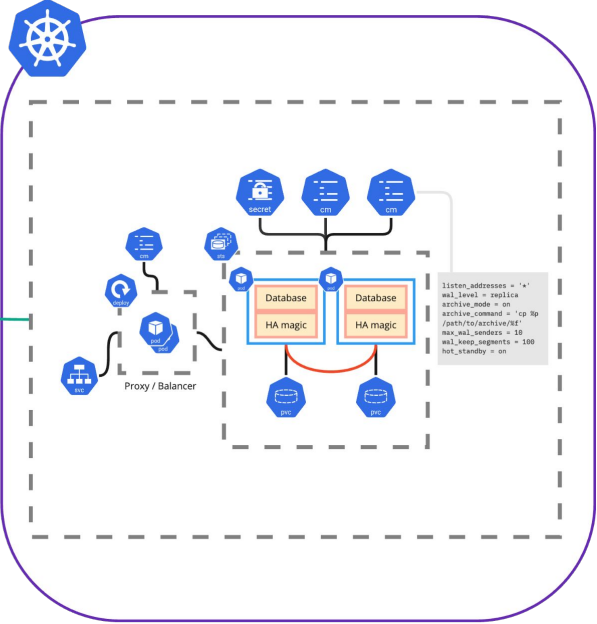
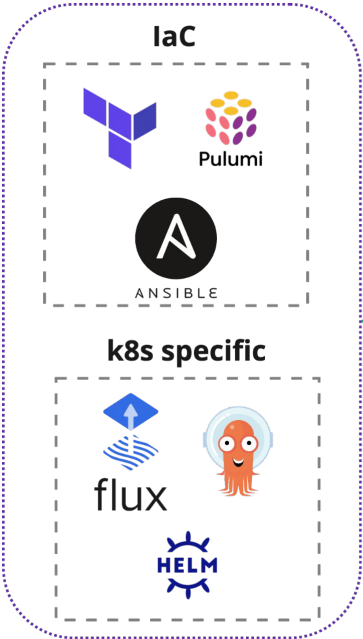
What about failover



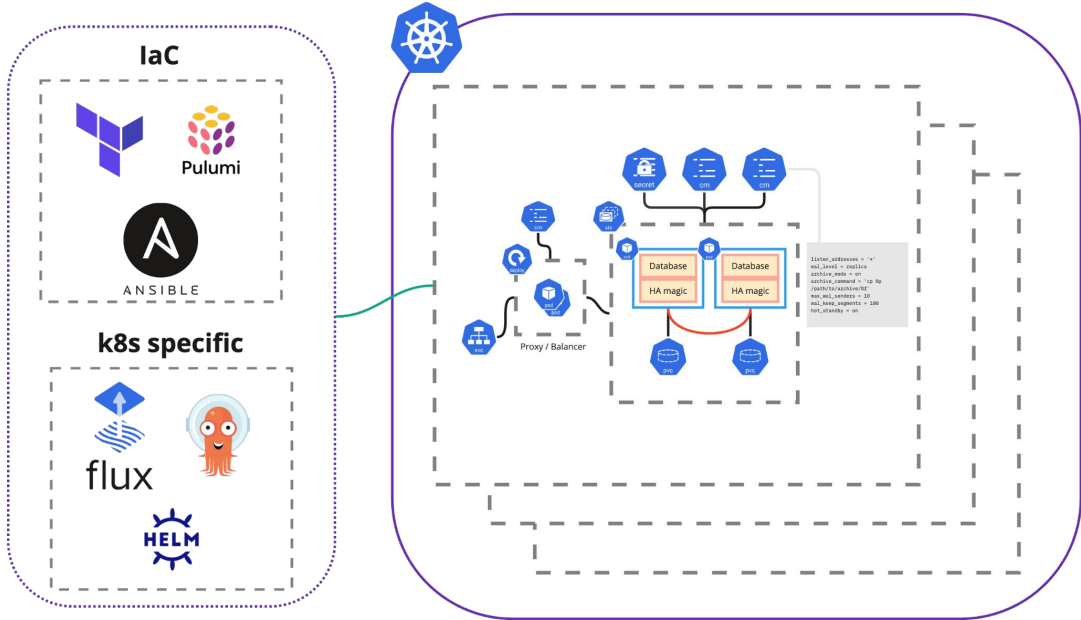
Where is my simplicity?



Hello, IAC



Repeat!



Chapter 2: disillusionment and operators 101

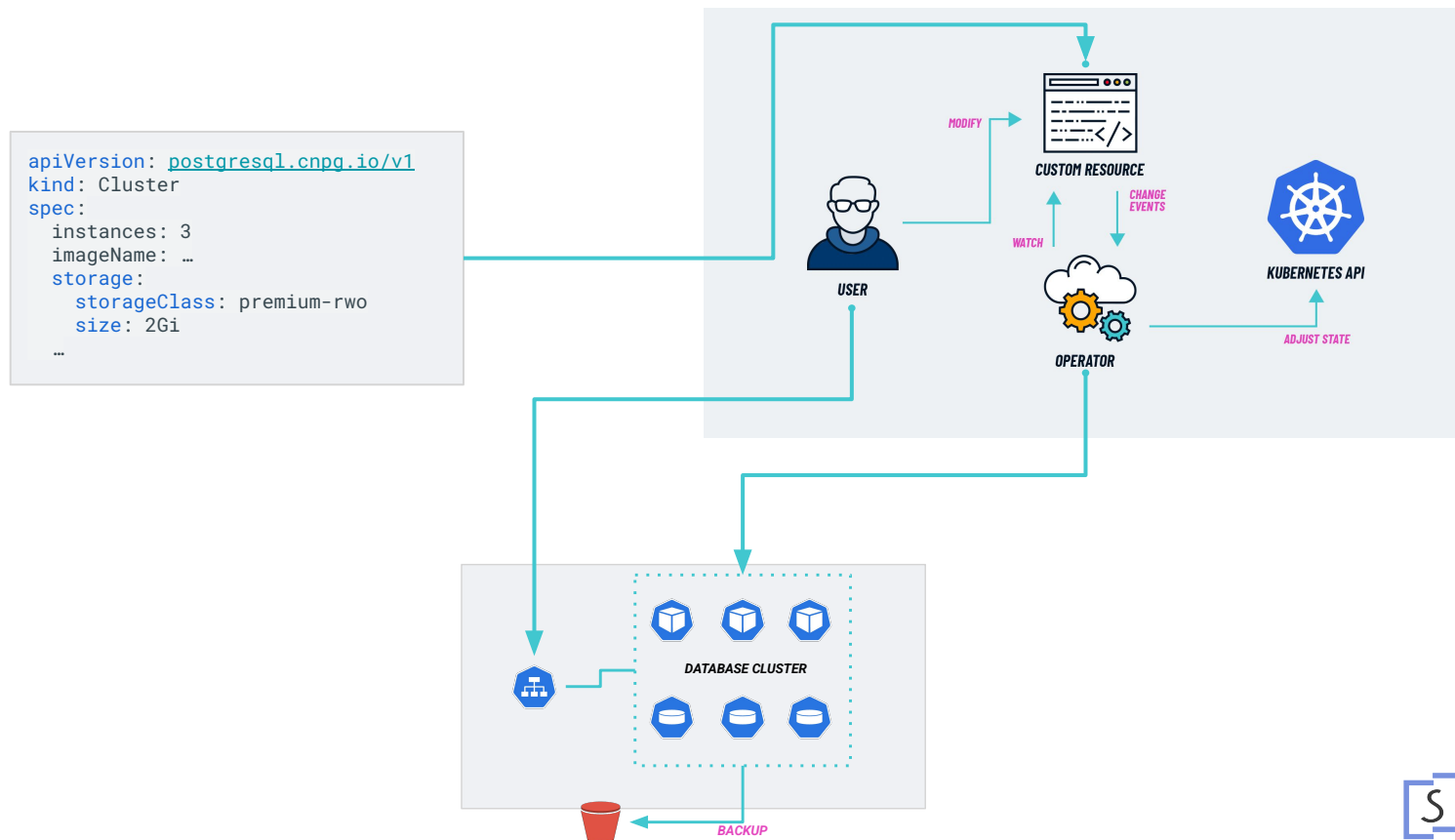
Deployment is the smallest task



Day-2:

- upgrade
- scale
- failover
- backup
- monitor
- maintenance
- recover

Hello, Operators



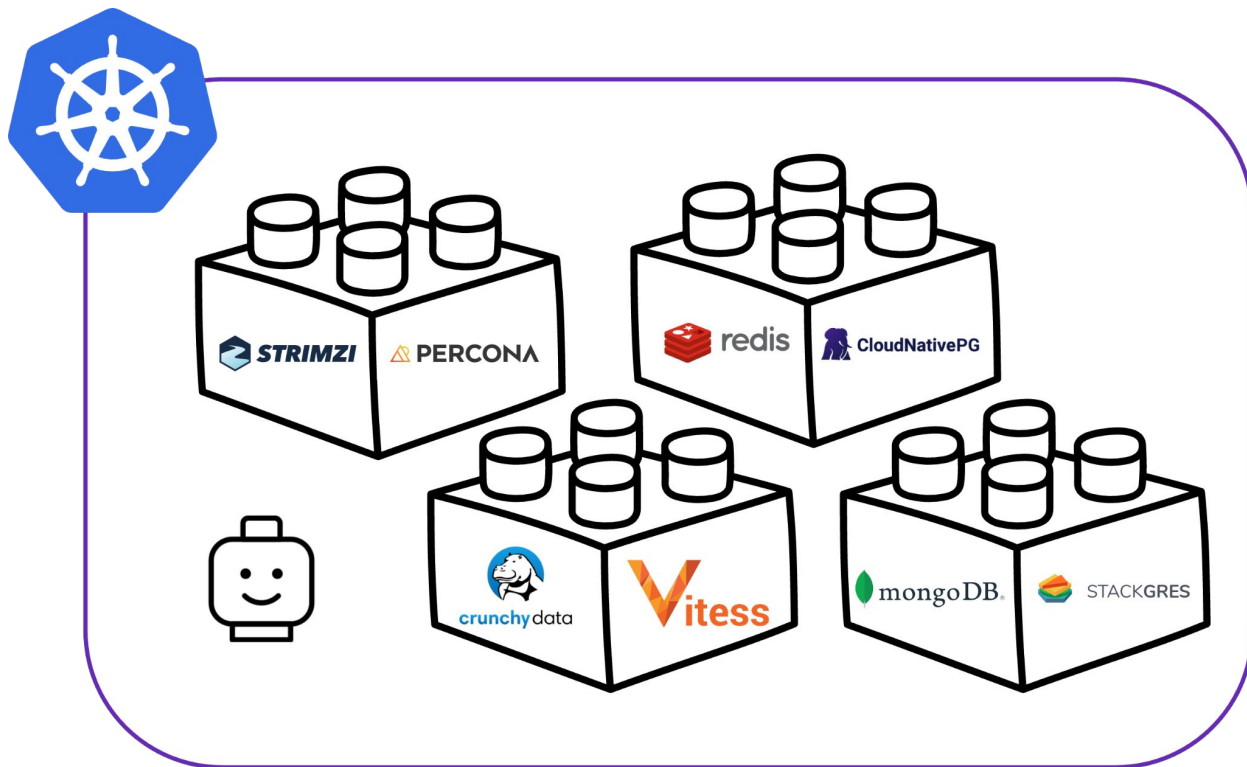
**FIRST DATABASE
ON K8S**

**DISCOVERED
OPERATORS**





Operators are building blocks

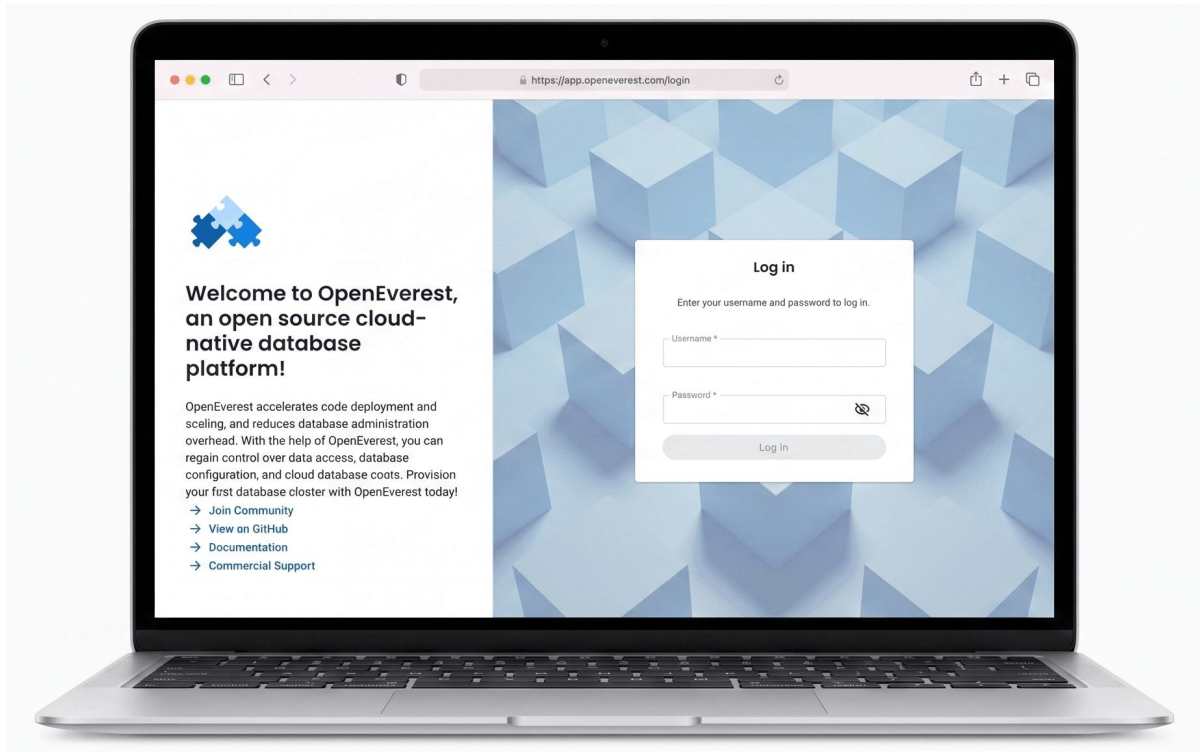


Still not DBaaS:

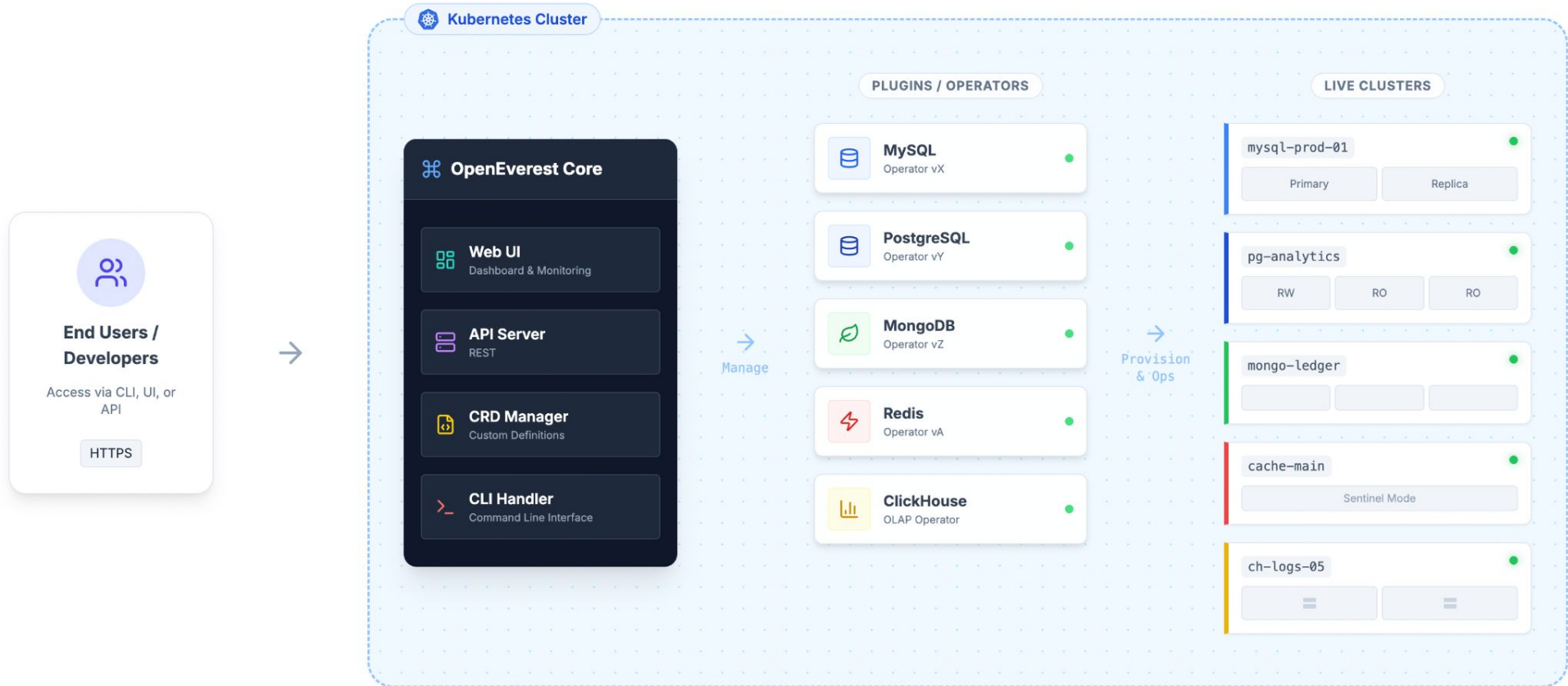
- Self-service - no UI/API
- Not multi-cluster
- Manual CNCF integrations

Chapter 3: Hope and DBaaS

Hey,  **Open
Everest**



High level architecture



The use cases

01

Simplification of spaghetti

- Unify operators management
- Easier integration
- Additional toil removal

02

DBaaS (cloud or private)

- Multiple technologies
- Works anywhere
- Seamless to end users

03

Developer platform

- Simple integrations (API, CRDs)
- or
- GitOps and IaC

Chapter 4: The wolf in sheep's clothing

Are we the good guys?



OpenEverest Core



Percona Monitoring &
Management

Hello, v2!

Pluggable Providers

Add your own database, data or AI technology. Decoupled from the core.

- Provider SDK
- YAML manifests for UI forms



Generic plugins

Extend OpenEverest the way you want. Add custom features and integrations.

- Packaged helm backend
- Integrated frontend



Epilogue

Running databases on
Kubernetes can be
scary,
unpredictable,
stressful.



Get to a happier place with
Operators - automate
deployment

AND

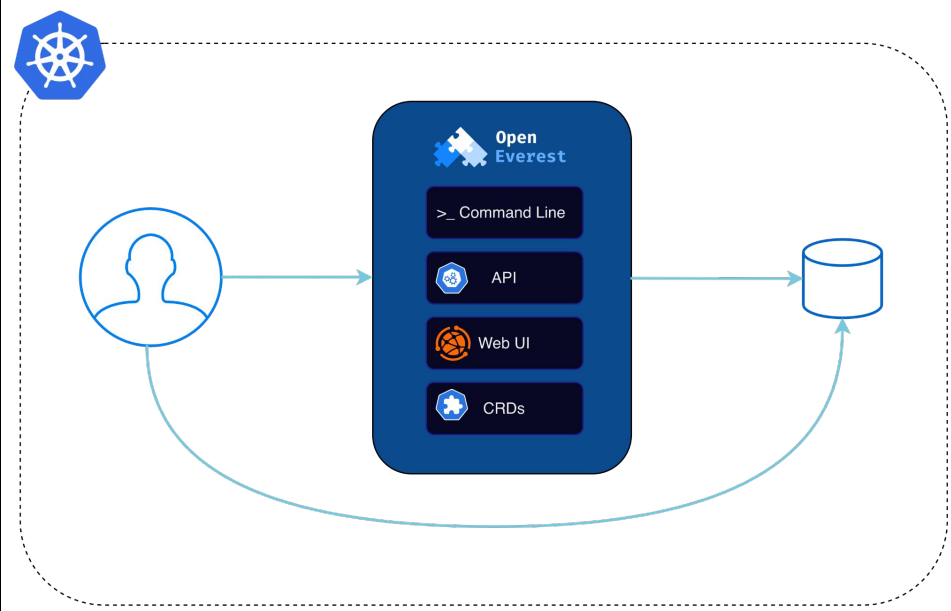
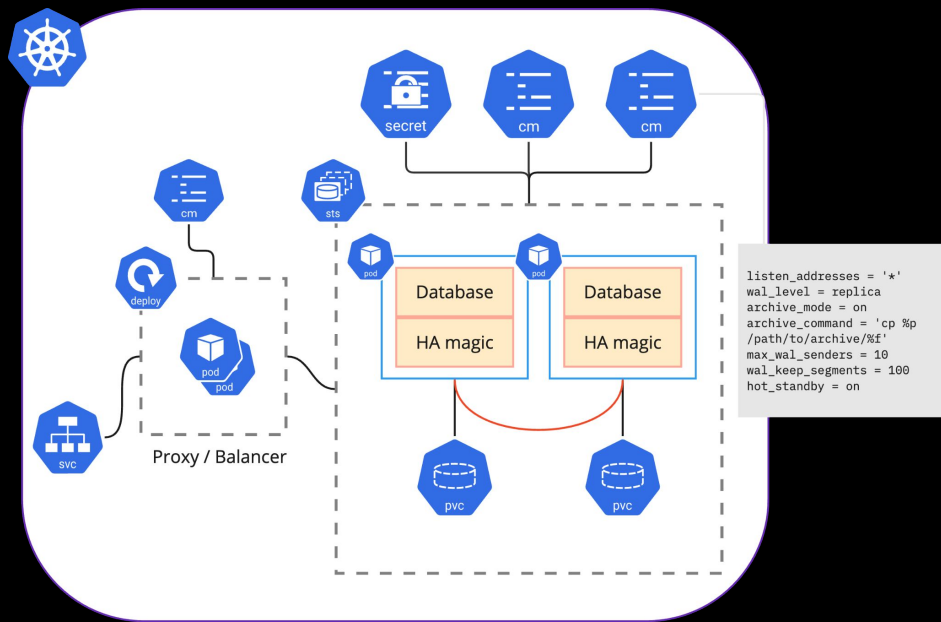
day-2 operations.



Your inner child wants excitement.

Open source DBaaS you want.





Choose your emotions carefully



Thank you! :)



openeverest.io/#community