

Kubernetes – the good, the bad, and the ugly

Tales from running Kubernetes in Production
By Heiko and Cedric

Hello



Heiko

Senior Cloud Consultant

About: I'm a SRE for hire and put cars in the cloud. I like photography, cooking, and longboarding



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Cedric

Senior Software Engineer – Resiliency Engineering

About: I'm a SWE at \$FAAANG and my work focuses on resiliency engineering and monitoring at planet-scale. I like analog photography and I train BJJ



@c3di1



/cedi



/in/cekienzl

The Good

WTF ist eigentlich dieses Kubernetes, und warum sollte ich es überhaupt benutzen?



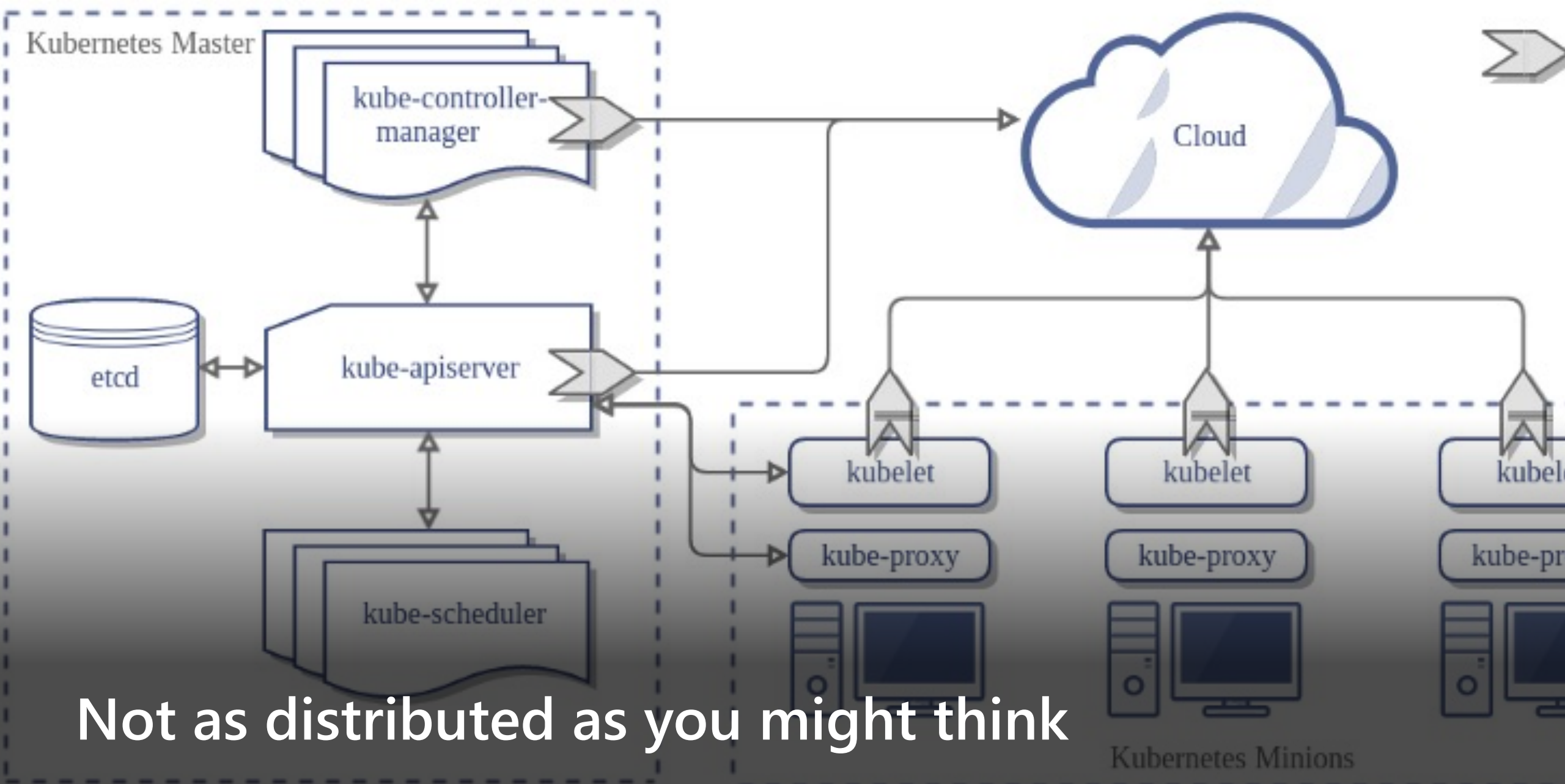
Kubernetes

- Container Orchestrator
- Standardized APIs to manage infrastructure
- Standardized application deployment strategies
- Horizontal scaling
- Automatic recovery for services

The Bad

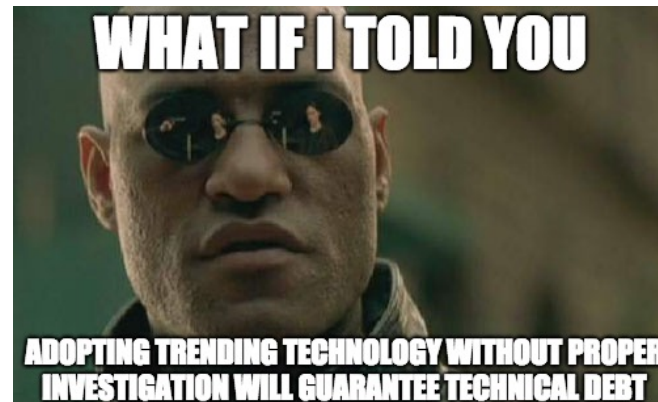
Yes, there are issues with it too





Not as distributed as you might think

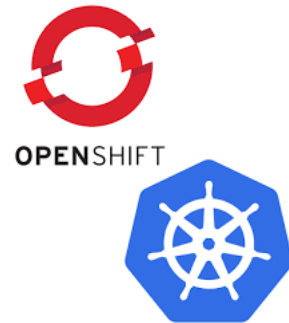
Complexity

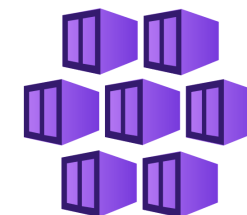




Decision fatigue

Choose wisely! You can only choose one – but there's almost no going back





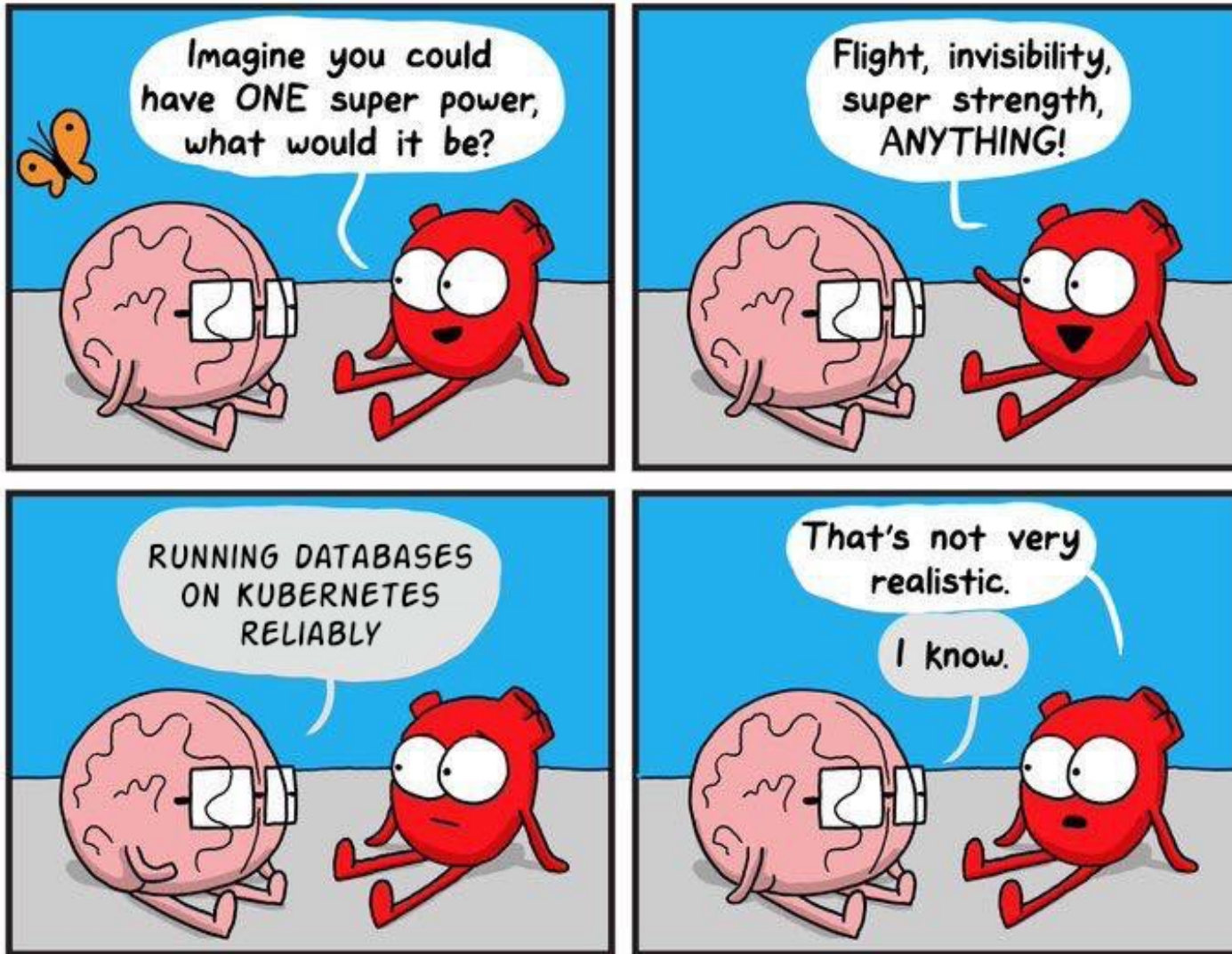
Azure AKS

Everyone has their own flavor

AKS, EKS on AWS or GKE on GCP?
Maybe "Serverless" Kubernetes?



Databases



theAwkwardYeti.com



The Ugly

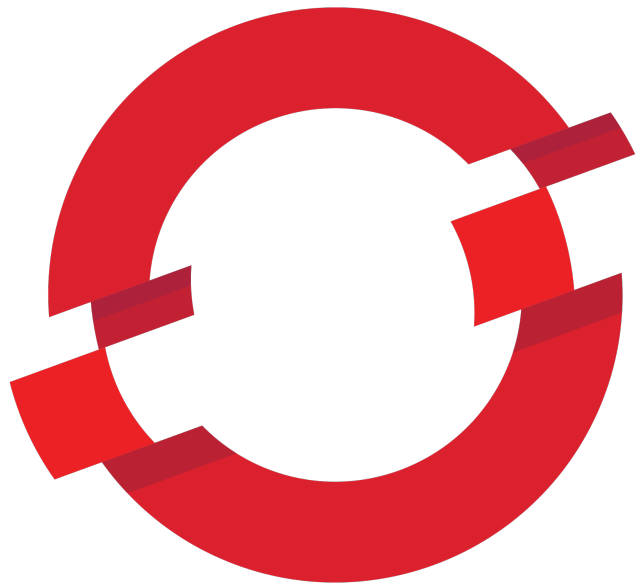
Heiko und Cedric erzählen vom Krieg



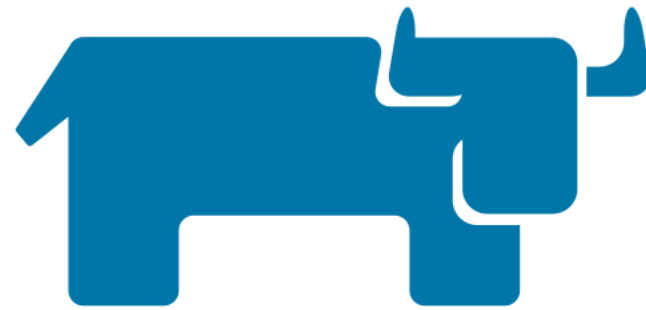
Putting Databases in your Cluster



UI-based Cluster Management



OPENSIFT



RANCHER

Manual deployments without CI/CD



Thank you