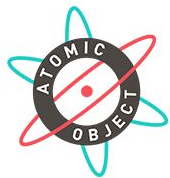



THANKS TO ALL OUR SPONSORS!





Kubernetes: A Panacea?

Thomas Wodarek



Who am I?

Thomas Wodarek



@thomaswodarek



@twodarek

Software Engineer - Infrastructure

GitHub

Been using Kubernetes in production since 2016





Outline

- Intro
- What is Kubernetes?
- Reasons for Kubernetes adoption
- Reasons against Kubernetes adoption
- Case Studies
- Questions

What is Kubernetes?

I NEED TO KNOW WHY MOVING OUR APP TO THE CLOUD DIDN'T AUTOMATICALLY SOLVE ALL OUR PROBLEMS.



Dilbert.com @ScottAdamsSays

YOU WOULDN'T LET ME RE-ARCHITECT THE APP TO BE CLOUD-NATIVE. JUST PUT IT IN CONTAINERS.



11-08-17 © 2017 Scott Adams, Inc./Dist. by Andrews McMeel

YOU CAN'T SOLVE A PROBLEM JUST BY SAYING TECHY THINGS. KUBERNETES.

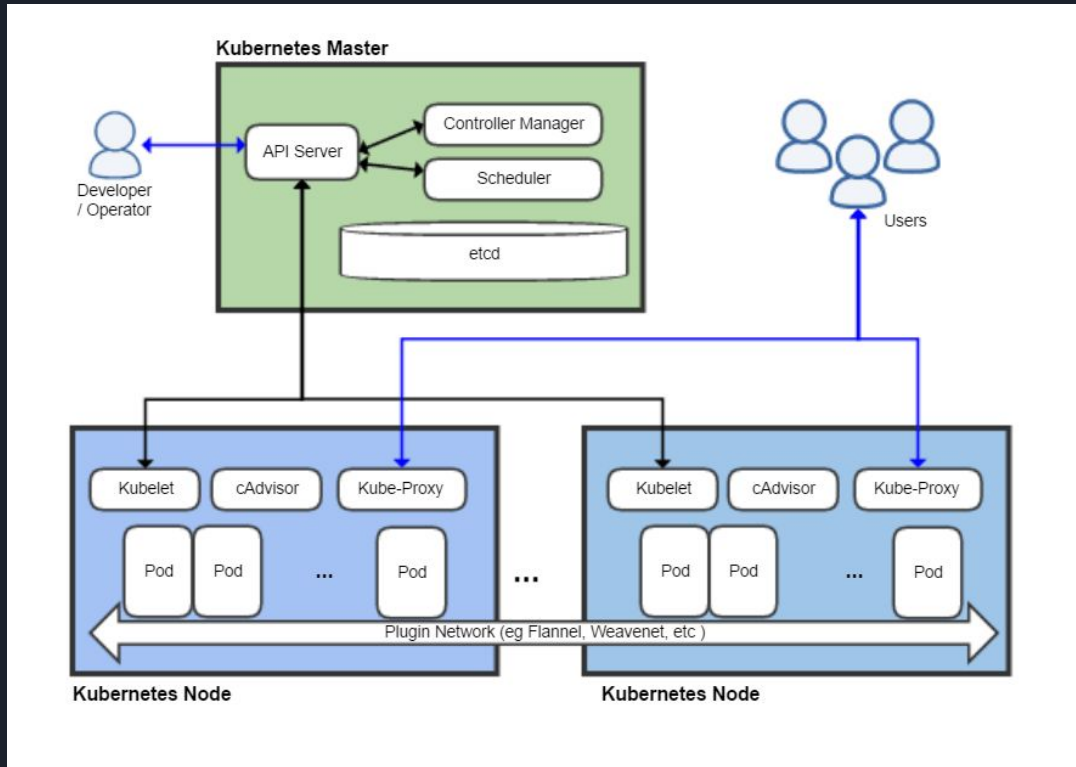




What is Kubernetes?

- Container orchestrator
- Scheduler
- API wrapper for etcd

What is Kubernetes?



Source: Wikipedia user Khtan66 under Creative Commons BY-SA 4.0
<https://en.wikipedia.org/wiki/Kubernetes#/media/File:Kubernetes.png>



Many reasons to use Kubernetes

- As long as it fits in a container, it'll run
- Replication is easy
- Highly configurable
- Highly customizable
- Many out-of-the-box providers



But also many reasons NOT to use Kubernetes

- Steep learning curve
- Operational overhead
- Painful on-prem process
- YAML
- Stateful apps...

Case Study: InitialView



Case Study: Arbor Networks

The background of the slide is a dark navy blue. On the right side, there is a series of overlapping, dark gray geometric planes that create a sense of depth and perspective, receding towards the top right. A light green parallelogram is positioned on one of these planes, and a bright blue parallelogram is positioned on a lower plane below it.

Case Study: GitHub



Summary



Questions?



Thank you!!



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