KUBERNETES

A PERSON WHO STEERS A SHIP OR BOAT

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κυβερνήτης

HELMSMAN

OVERVIEW

- Open-source project
- Serves to organize containers in microservice implementations
- Usually works with remote containers, but can be configured to work locally
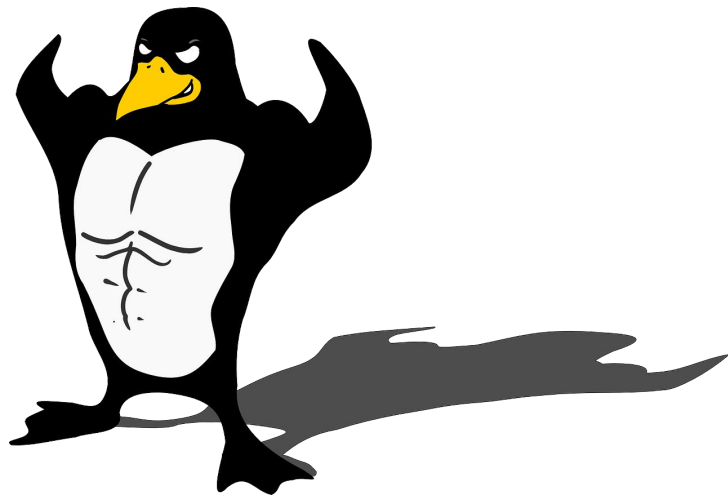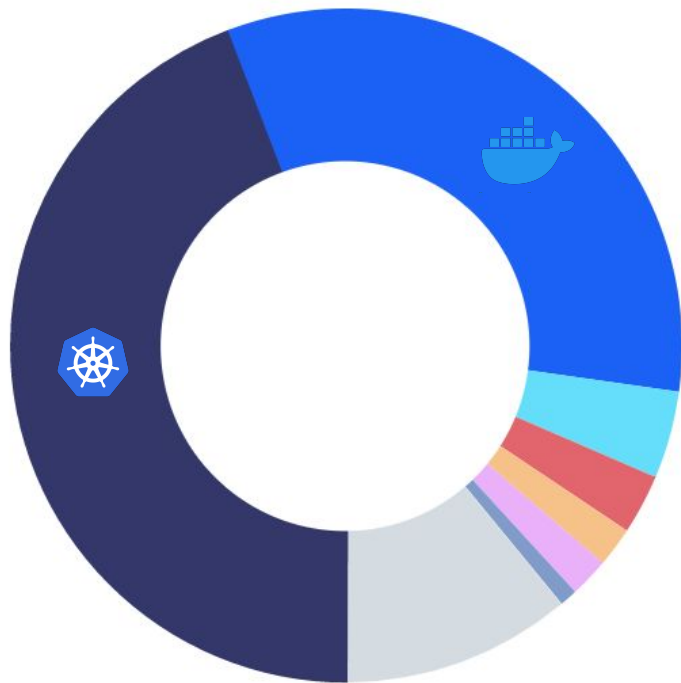- Application optimization tool

BRIEF HISTORY

- Google project
  - Genesis in 2014, first release in 2015
  - Brendan Burns, Villie Aikas, Joe Beda, Craig McLuckie
- Inspired by Borg
  - Older cluster organizer
  - Directly influenced development
- Handed over to CNCF
  - Cloud Native Computing Foundation
  - Google and Linux Foundation
- Project 7
  - Seven of Nine
  - Ex-Borg

BEST IN CLASS

- 21 releases to date
  - N-3 support
- GitHub star
  - 9th place in total commits
  - 2nd place in author and issue count
  - Behind only the Linux kernel
- Holds the majority of users for a microservice implementation
- Big things
  - Brendan Burns - Microsoft Azure
  - Joe Beda, Craig McLuckie - VMware

- Kubernetes
- Docker Swarm
- OpenShift by Red Hat
- Apache Mesos
- Marathon
- Nomad by HashiCorp
- CoreOS Tectonic
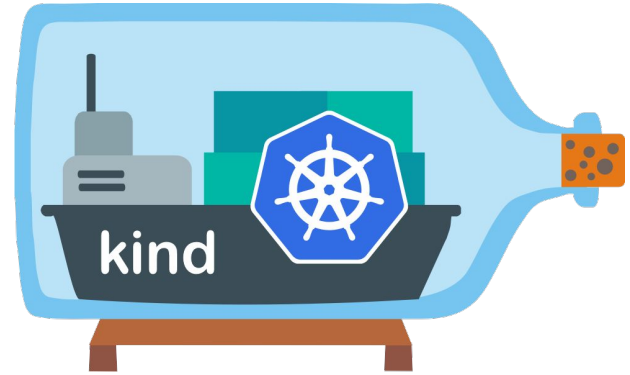- Other

DEEP DIVE

- Blank

What does Kubernetes actually do?

- Manages containers
- Directs traffic
- Updates containers

KIND

- Blank

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KIND

QUESTIONS?