

# KUBERNETES



**A PERSON  
WHO  
STEERS A  
SHIP OR  
BOAT**

**KUBERNETES**

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**κυβερνήτης**

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**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



# kubernetes

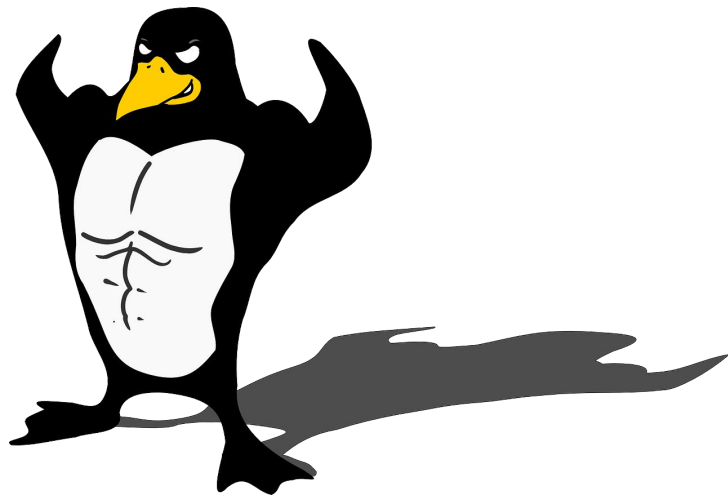
# BRIEF HISTORY

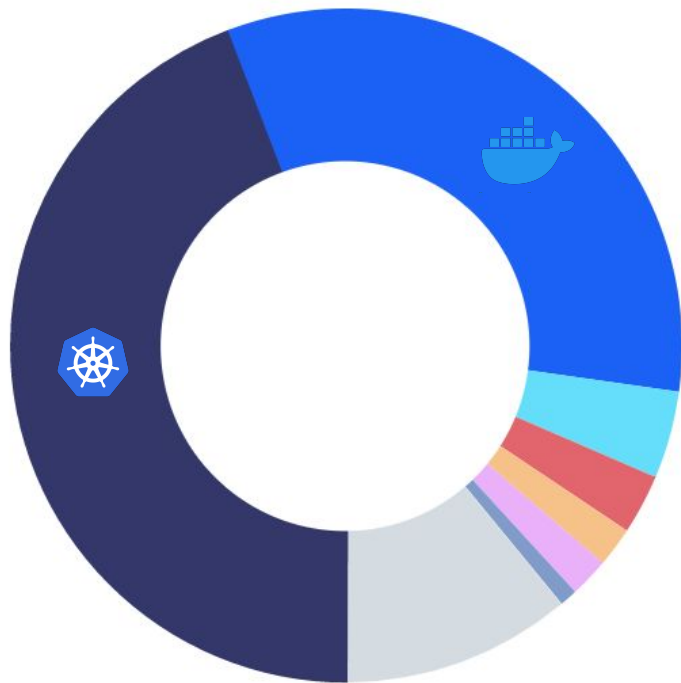
- Google project
  - Genesis in 2014, first release in 2015
  - Brendan Burns, Villie Aikas, Joe Beda, Craig McLuckie
- Inspired by Borg
  - Older cluster organizer
  - Directly influenced development
- Handed over to CNCF
  - Cloud Native Computing Foundation
  - Google and Linux Foundation
- Project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

# TERMINOLOGY

- Blank

The background of the image is a deep-sea underwater scene. The top half shows a dark, murky blue water with some faint, blurry shapes that could be distant lights or structures. The bottom half features a vibrant coral reef with various types of coral and several small, colorful fish swimming around it. The overall lighting is dim, creating a mysterious and deep atmosphere.

# DEEP DIVE



# RESURFACE

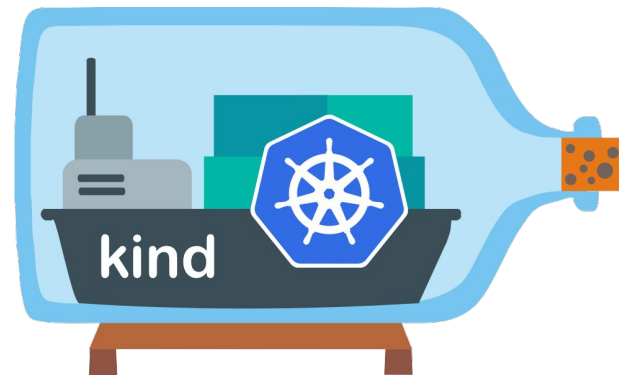
- Manages containers
- Directs traffic
- Updates containers

# DOCKER REVIEW

- Blank

# KIND

- Blank



01001110100101011110011110000001101010  
11011010110101100010110100011110001001  
01110001010010011001011110010011111010

**HELLO WORLD**

11011011010000100011010100110111110101  
01011100111101111100101011010101100000  
01010100001111100111000101000100010101

# KUBERNETES

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# KIND

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The background of the slide features a dense field of 3D, light gray question marks. These question marks are rendered with soft shadows and highlights, giving them a three-dimensional appearance. They are scattered across the entire frame, with some in sharp focus and others blurred in the background, creating a sense of depth. A solid blue horizontal band cuts across the middle of the image, serving as a backdrop for the central text.

**QUESTIONS?**