

What is Kubernetes



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Kubernetes

Where did it come from

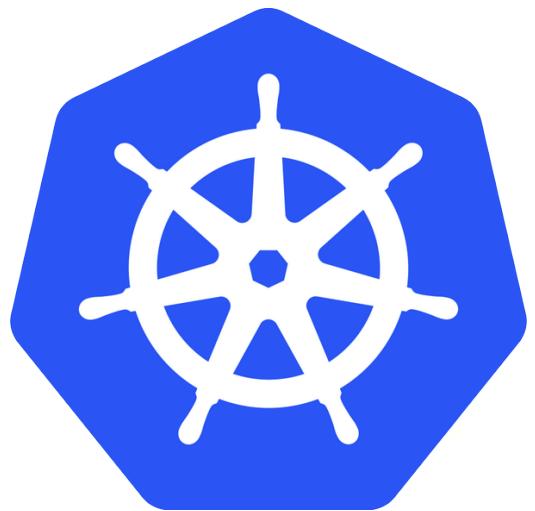
What does the name mean

...

What does it do

Why do we have it

...



Born in Google

Dona

Writt

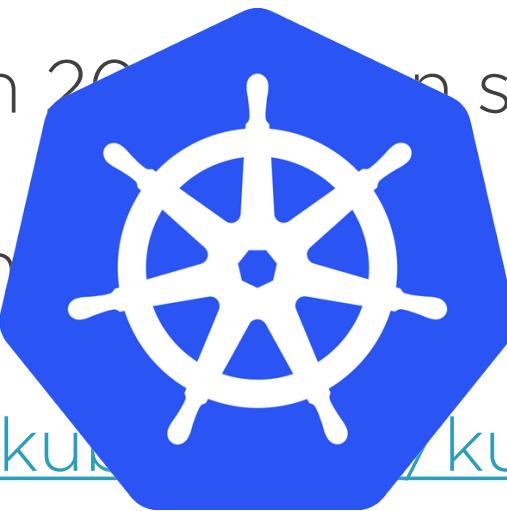
<https://kubernetes.io>



in 20

an

<https://github.com/kubernetes>



(open source)

IRC, @kubernetesio, slack.k8s.io, Meetups...





Born in Google

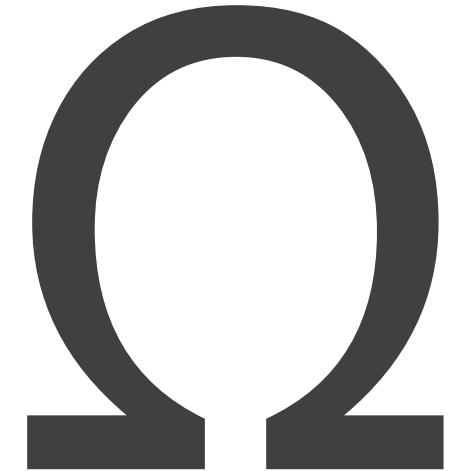
Donated to CNCF in 2014 (open source)

Written in Go/Golang

<https://github.com/kubernetes/kubernetes>

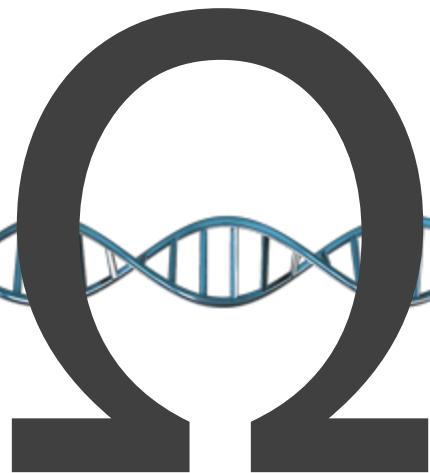
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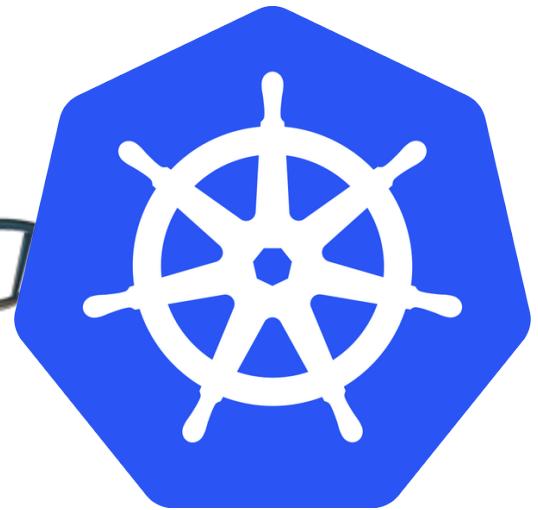




Borg
(Proprietary)



Omega
(Proprietary)



Kubernetes
(open-source)

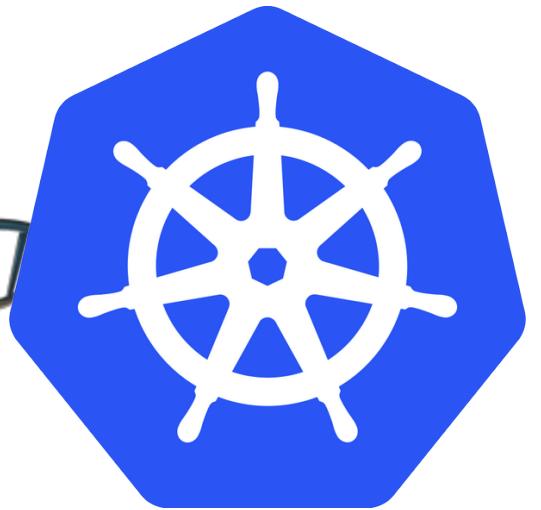




Borg
(Proprietary)

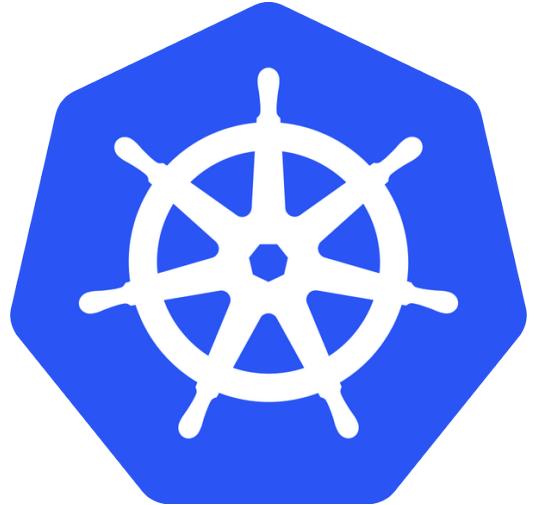


Omega
(Proprietary)



Kubernetes
(open-source)

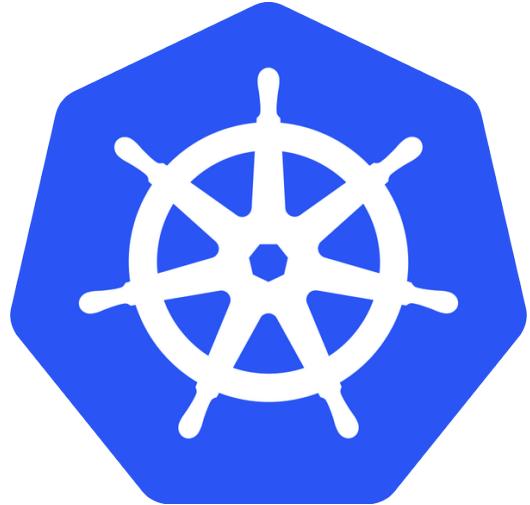




Kubernetes

Greek for “Helmsman” < the person who steers a ship





Kubernetes
K8S

Greek for “Helmsman” < the person who steers a ship





- Born in Google
- Donated to CNCF in 2014
- Open source (Apache 2.0)
- v1.0 July 2015
- Written in Go/Golang
- <https://github.com/kubernetes/kubernetes>
- IRC, @kubernetesio, slack.k8s.io, Meetups...
- DNA from Borg and Omega
- Often shortened to **k8s**



Kubernetes

What & Why



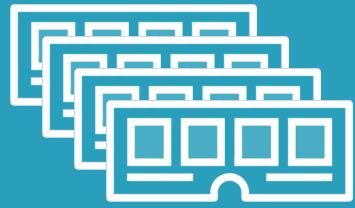
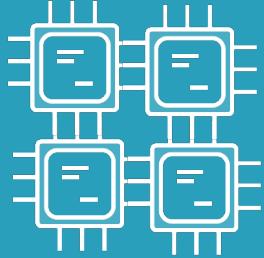
We're starting to view the data center
Containers bring scalability challenges!
as a computer!



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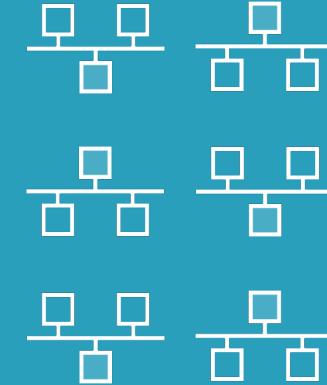
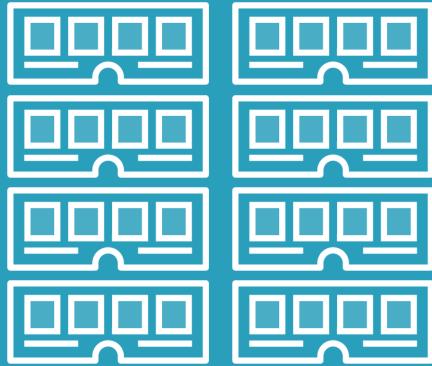
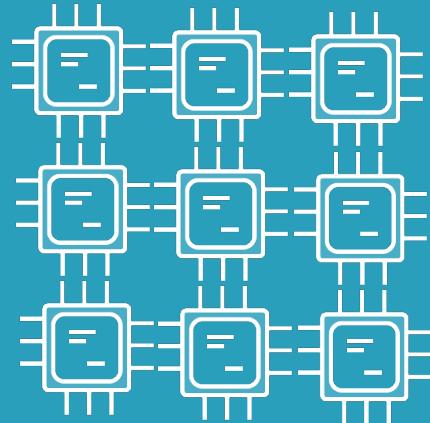
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as a computer!





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as a computer!





We're starting to view the data center
as a computer!

Kubernetes can manage it



Pets vs. Cattle



- Standard package format
- Manifest

Job done!



- Standard package format
- Manifest

Job done!



- Standard package format
- Manifest

Job done!



It's early days (but not super early)

Kubernetes is strongly positioned

Very platform agnostic

Lets you target deployments

Stick with it!





I'm not an expert
at anything!





Kubernetes is
moving **FAST**



Coming up....

Kubernetes Architecture

