

Kubernetes Overview



Top Alternatives to Kubernetes

- Docker Swarm
- Nomad
- OpenStack
- Rancher
- DC/OS
- Apache Mesos
- etc

Kubernetes History

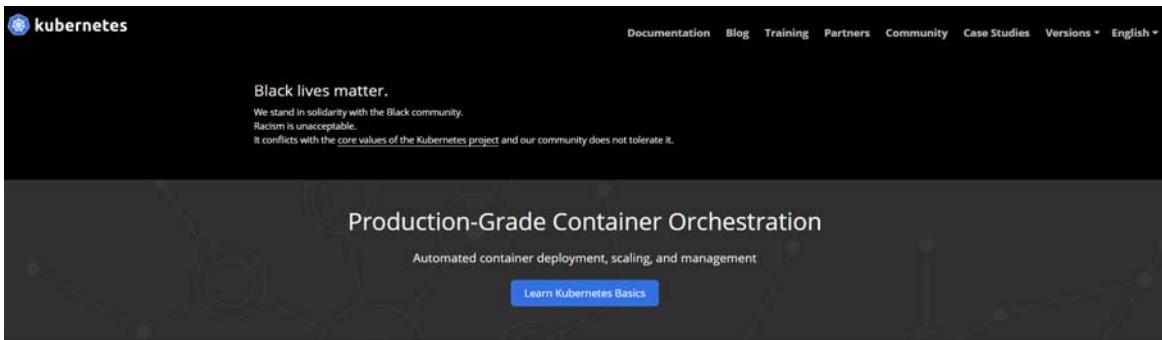
Where this all started



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Index contains ~25 million pages (soon to be much bigger)



kubernetes.io

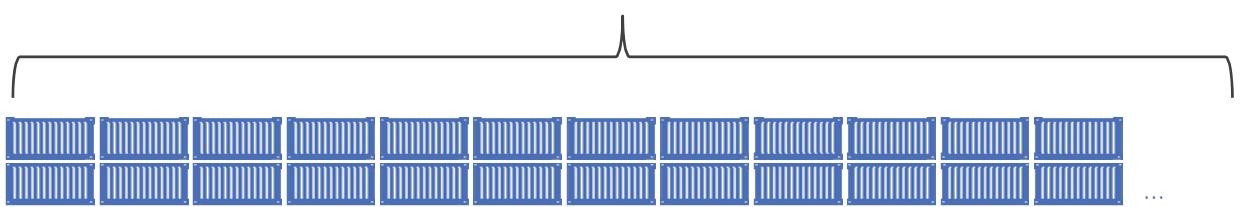


Kubernetes (K8s) is an open-source system for automating deployment, scaling, and management of containerized applications.

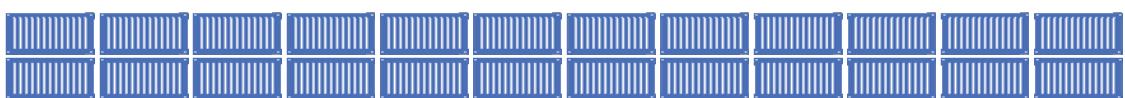
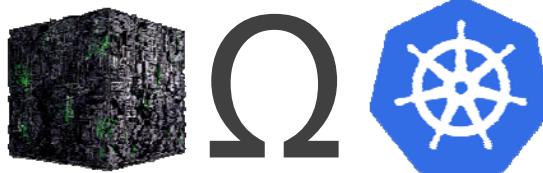
It groups containers that make up an application into logical units for easy management and discovery. Kubernetes builds upon 15 years of experience of running production workloads at Google, combined with best-of-breed ideas and practices from the community.



Google!



Google!



Google!

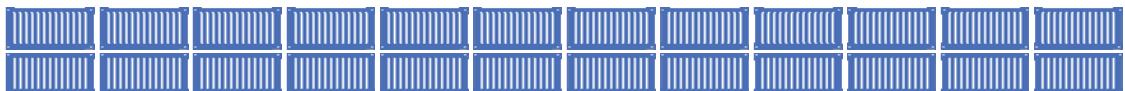
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On all good cloud platforms

On-premises

Laptop development environments

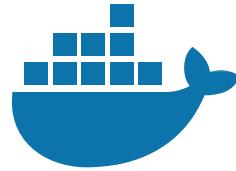




kubernetes

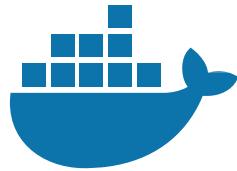
(helmsman)

k8s

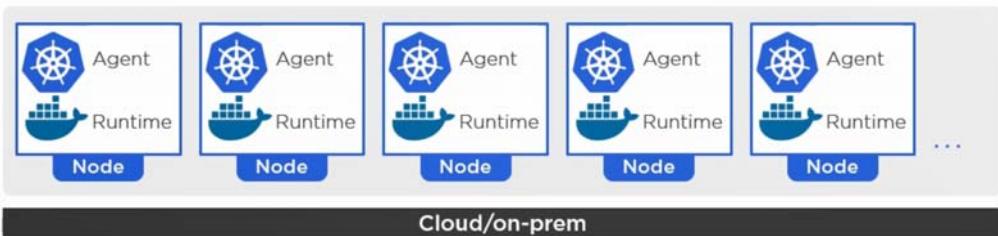




Scheduling, scaling, healing,
updating...



start | stop | delete ...



Installing kubernetes for learning

- minikube (<https://minikube.sigs.k8s.io/docs/>)
- microk8s (<https://microk8s.io/>)