## Intro to Kubernetes

Andre Almar, @\_andrealmar

This presentation is available at: https://github.com/andrealmar/talks



## \$ whoami

- → Site Reliability Engineer @ Saraiva Educação
- → Founder of SimpleOps **simpleops.io**
- → Co-Founder of DevOps Bootcamp devopsbootcamp.net



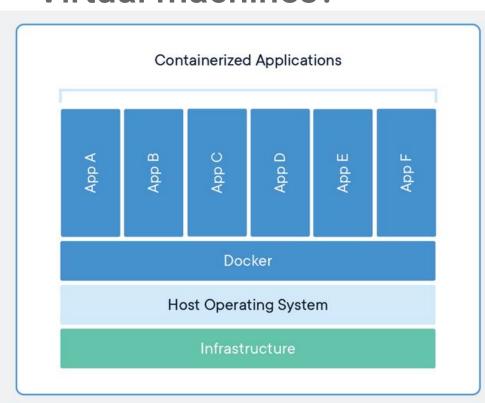
# What are "containers" and where did they come from?

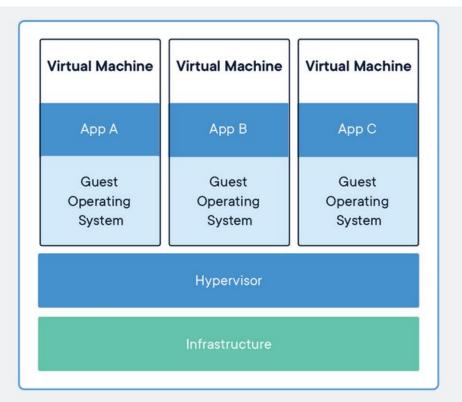
- A standardized unit of software
- Package software into standardized units for Development, Shipment and Deployment
- It is not a new idea: Control
  Groups, Namespaces, LXC (Linux
  Containers),





# What's the difference between containers and Virtual machines?





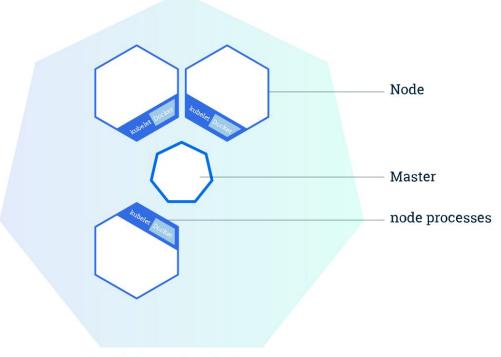
# What's "container orchestration" and what's Kubernetes is all about?

- + Easy scale out
- + Painless app upgrades
- + Tolerant of machine failure





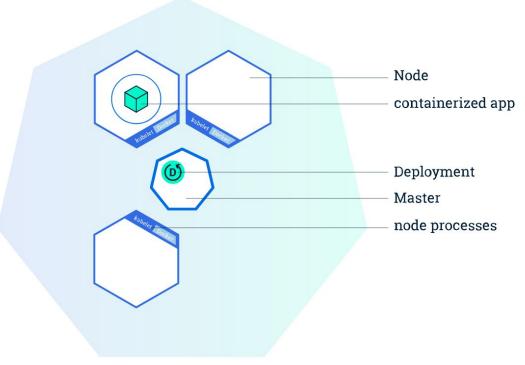
### **Kubernetes Cluster Diagram**



**Kubernetes cluster** 

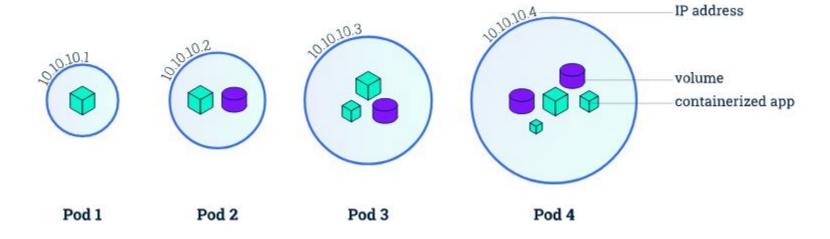


### Deploying your app on Kubernetes



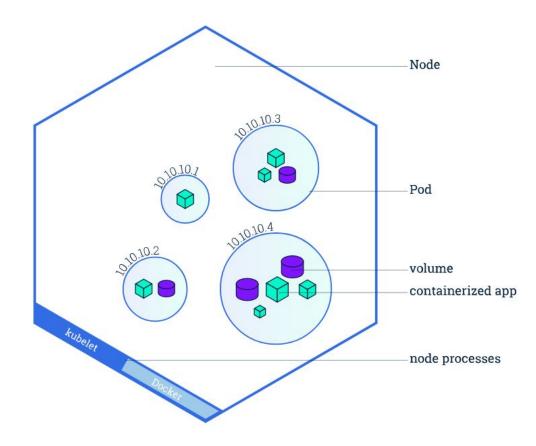


### Pods



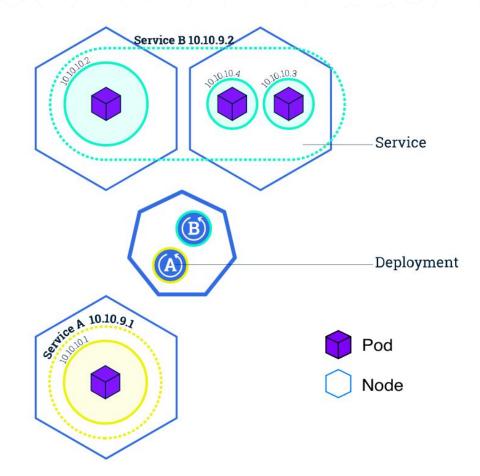


#### **Nodes**





#### **Services**





## **LAB Time**

https://github.com/andrealmar/talks/tree/master/cpmg3



#### Resources



- https://kubernetes.io/docs/tutorials/kubernetes-basics/
- https://medium.freecodecamp.org/a-friendly-introduction-to-kubernetes-670c
  50ce4542
- https://www.digitalocean.com/community/tutorials/an-introduction-to-kuber netes
- https://www.amazon.com/Kubernetes-Book-Version-January-2018-ebook/dp// /B072TS9ZQZ
- https://www.amazon.com/Kubernetes-Running-Dive-Future-Infrastructure/dp/ /1491935677



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