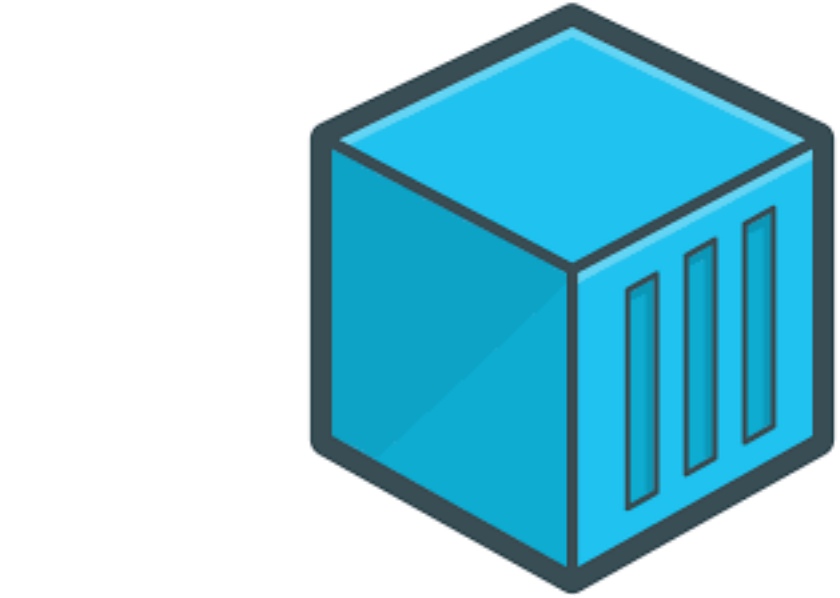
Containers

Conceitos básicos sobre Docker e Kubernetes

O que são containers?

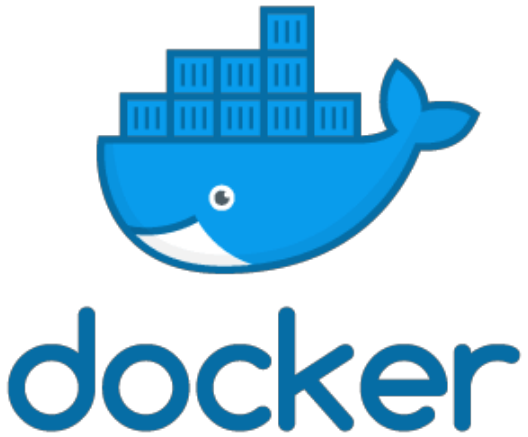
- Aplicações virtualizadas

- A container is a standard unit of software that packages up code and all its dependencies so the application runs quickly and reliably from one computing environment to another.



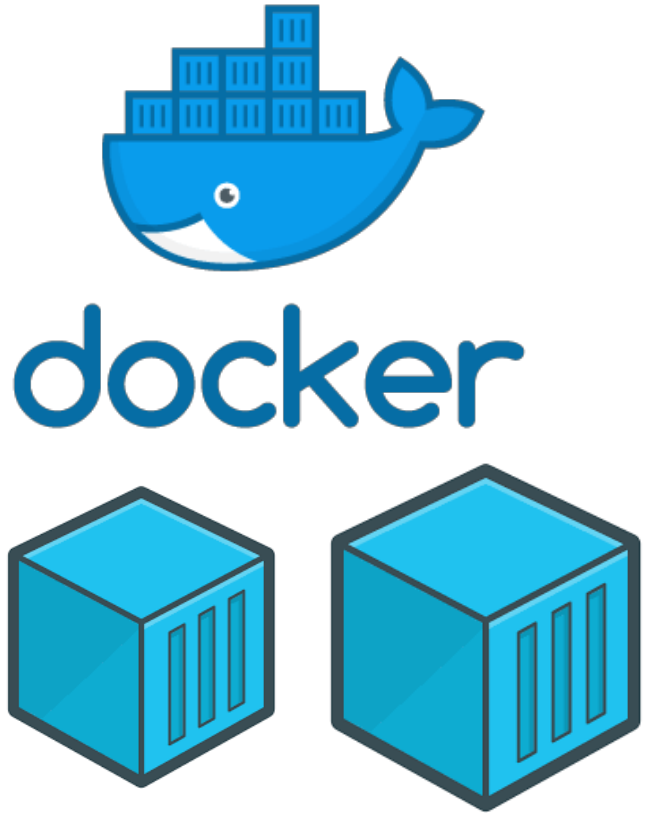
Docker

- Docker engine
- A Docker container image is a lightweight, standalone, executable package of software that includes everything needed to run an application: code, runtime, system tools, system libraries and settings.



Docker-compose e docker swarm

- Services
- Cluster



Ambiente de Produção

- Requisitos básicos
  - Alta disponibilidade
  - Desempenho
  - Escalabilidade
  - Segurança

O que é o Kubernetes?

- Gerenciador de containers
- Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications.
- Nativo Google

Kubernetes na Cloud

- Administração
- Cloud services
  - GKE (Google)
  - AKS (Azure)
  - EKS (Amazon)

Processo de Deployment

Dev

- Coding

Infra

- CI / CD

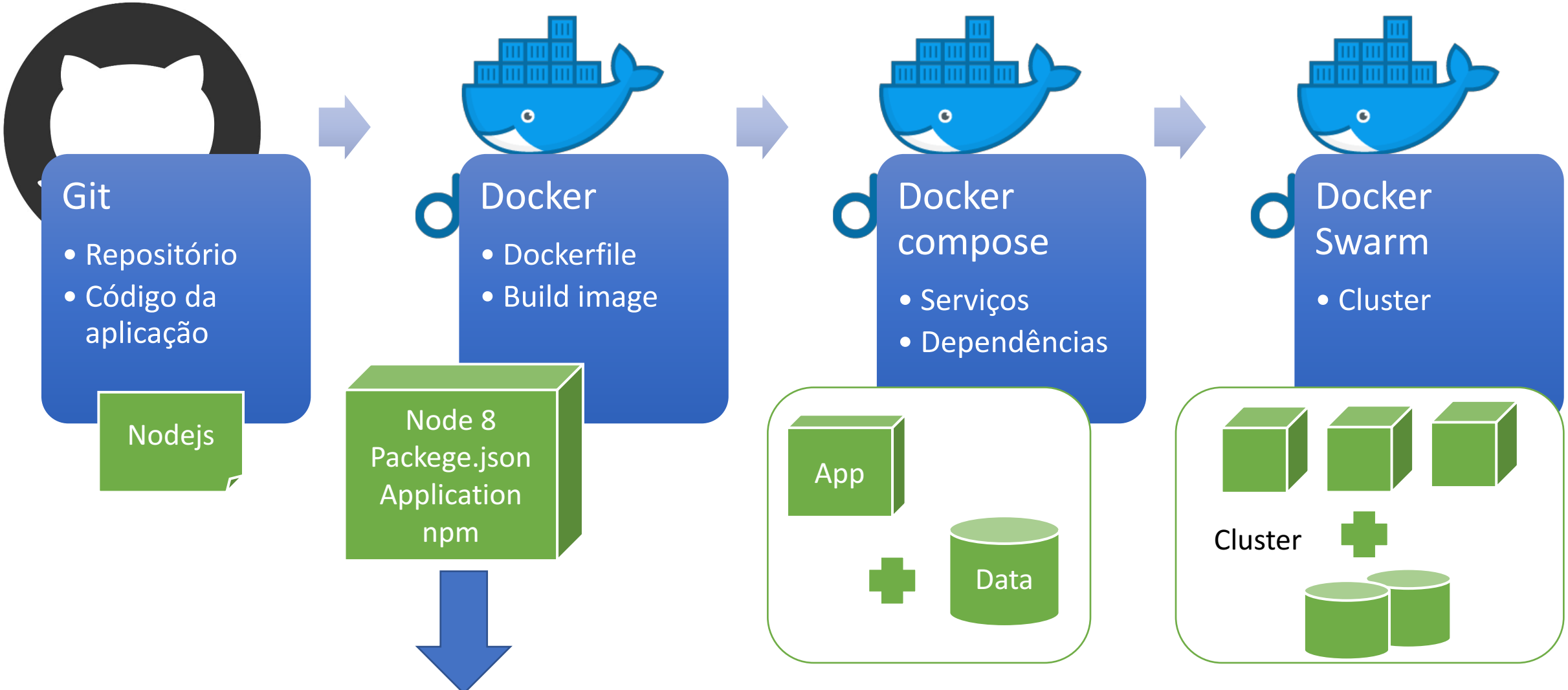
Cloud

- Validation

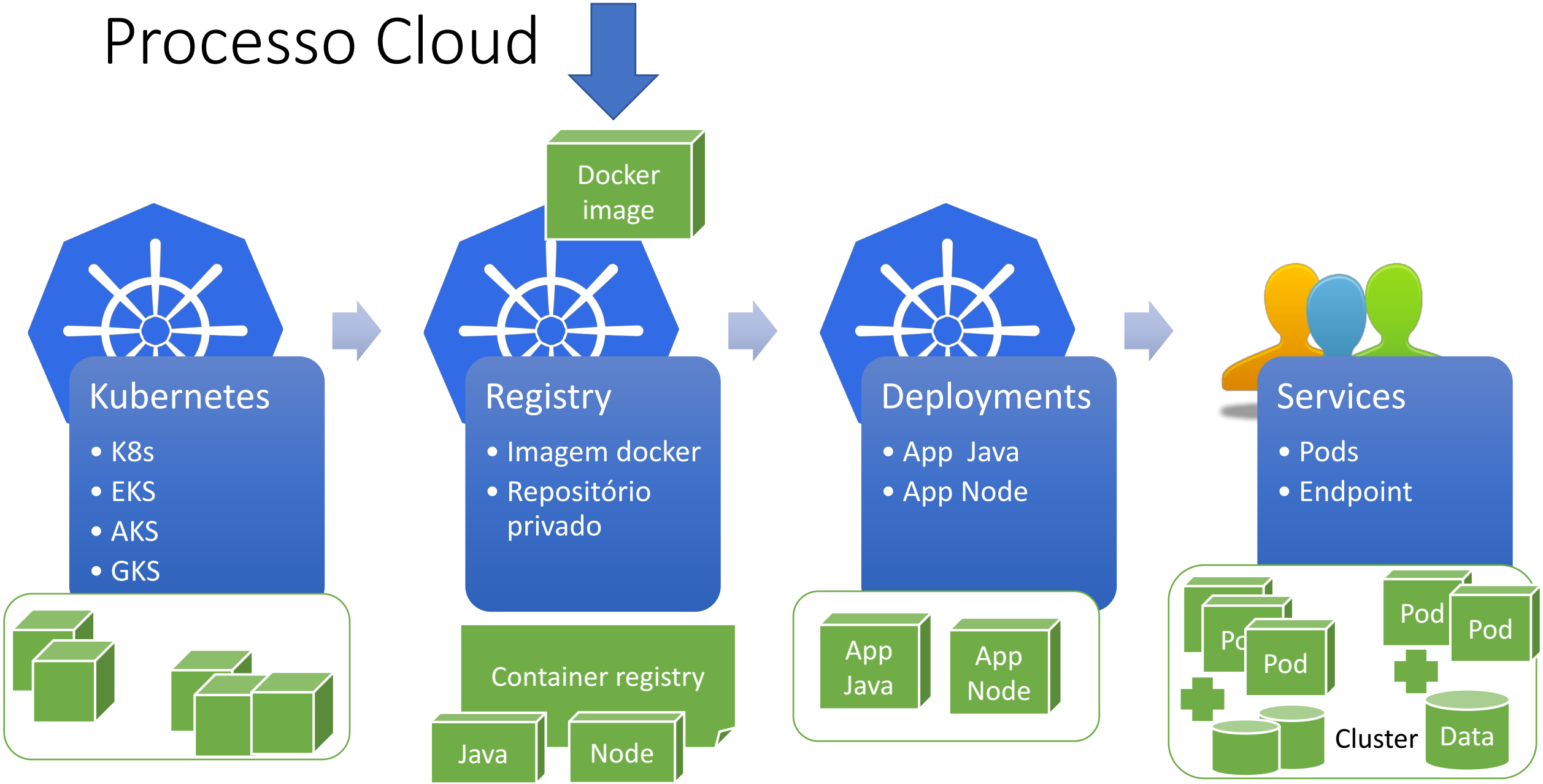
Production

- Deliver

Processo Standalone



Processo Cloud



Obrigado

- Dúvidas
- Comentários
- Sugestões