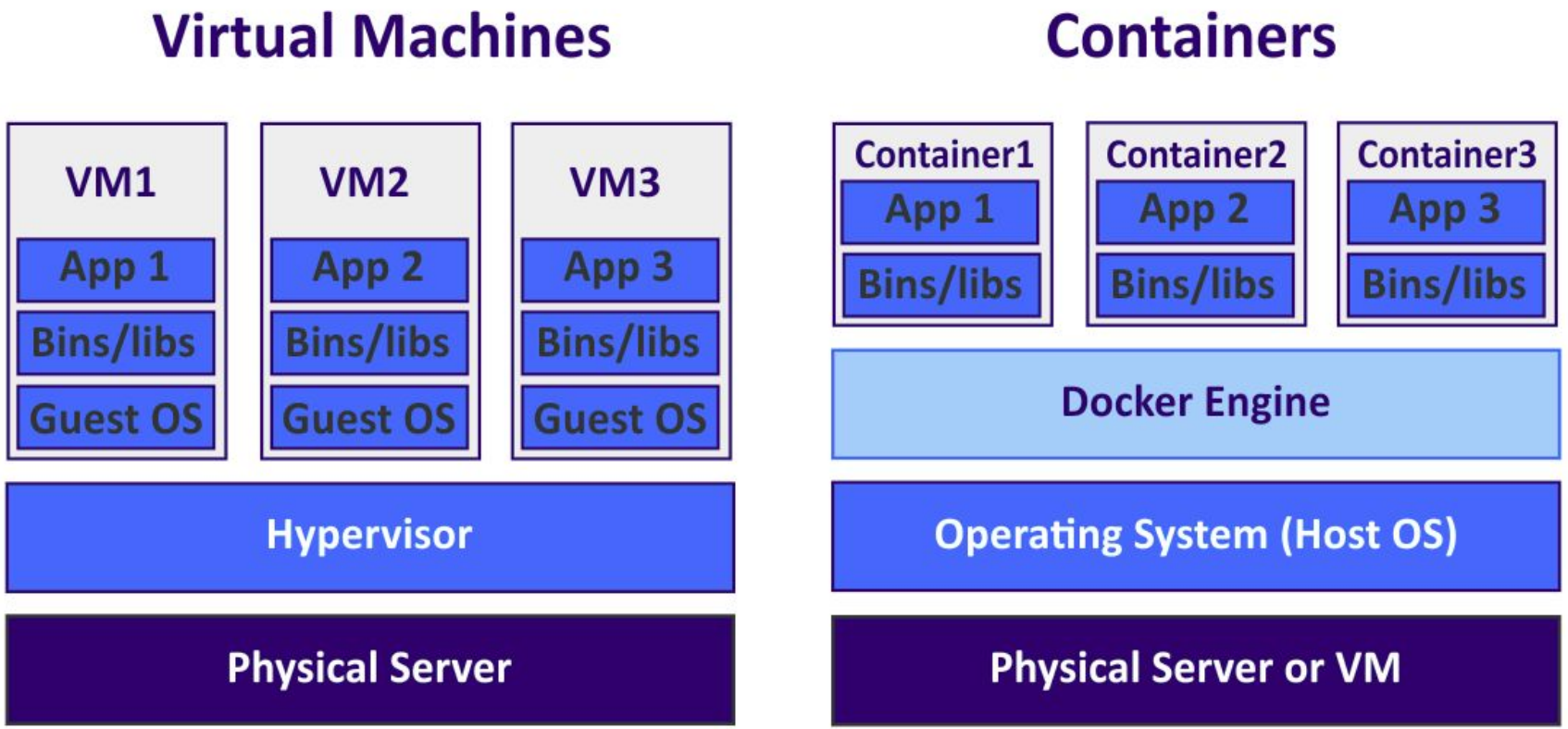
Lightning Talk

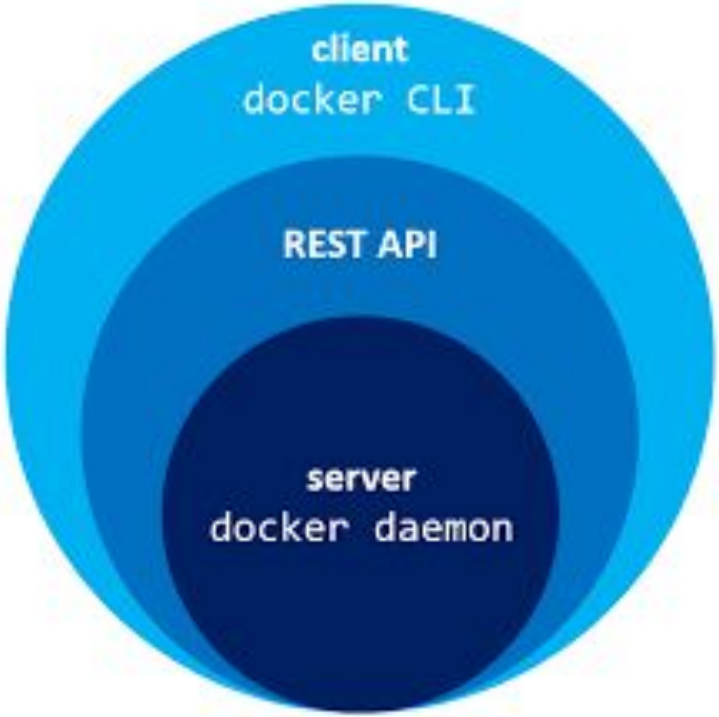
fligoo

Docker

Docker
Container


Virtual Machines
VM1
App 1
Bins/libs
Guest OS
VM2
App 2
Bins/libs
Guest OS
VM3
App 3
Bins/libs
Guest OS
Hypervisor
Physical Server
Containers
Container1
App 1
Bins/libs
Container2
App 2
Bins/libs
Container3
App 3
Bins/libs
Docker Engine
Operating System (Host OS)
Physical Server or VM

Docker Engine



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Let's go!

API

CI / CD

DEPLOYMENT

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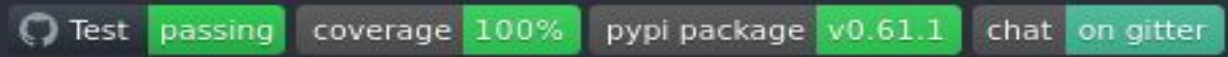
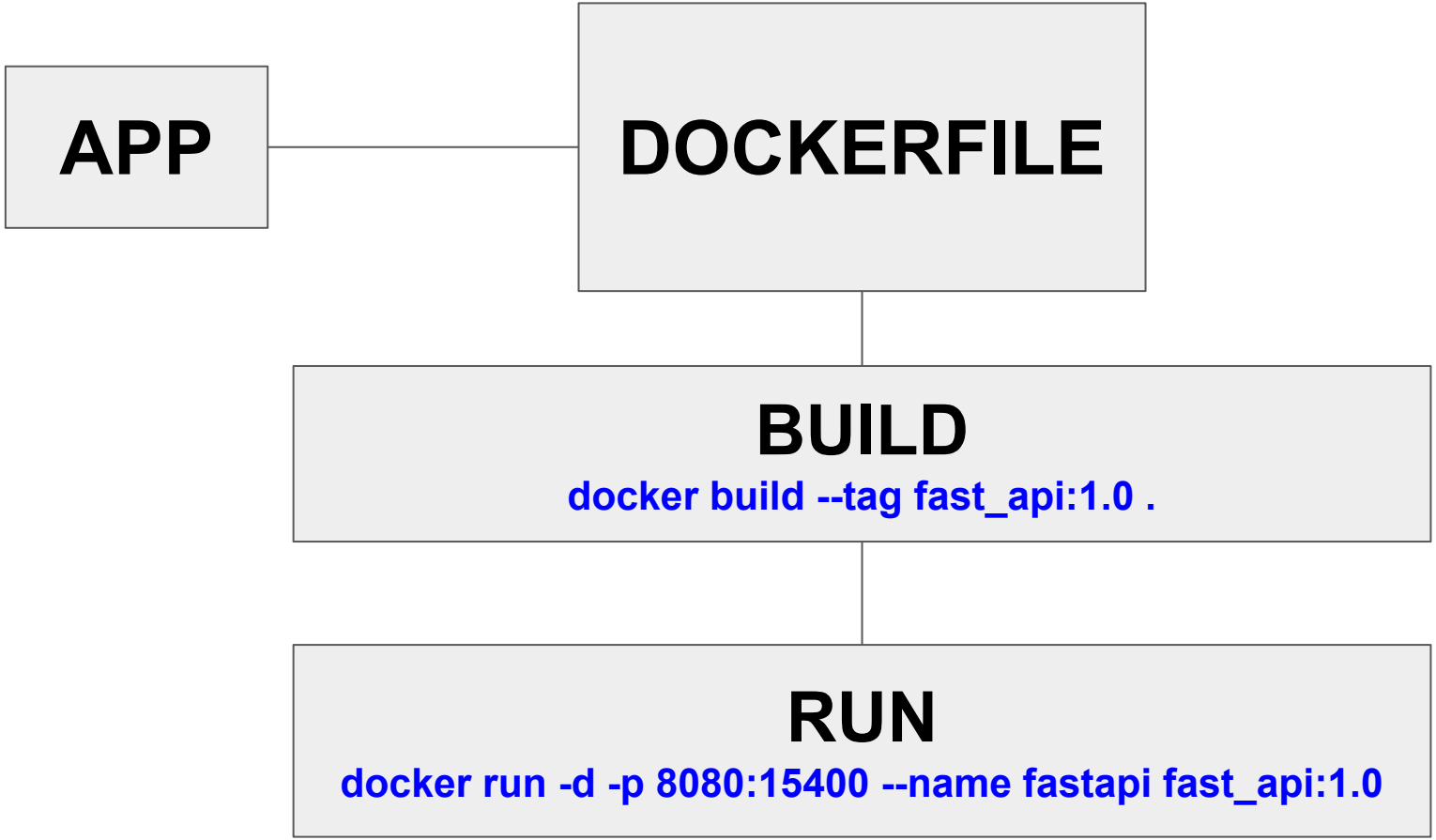
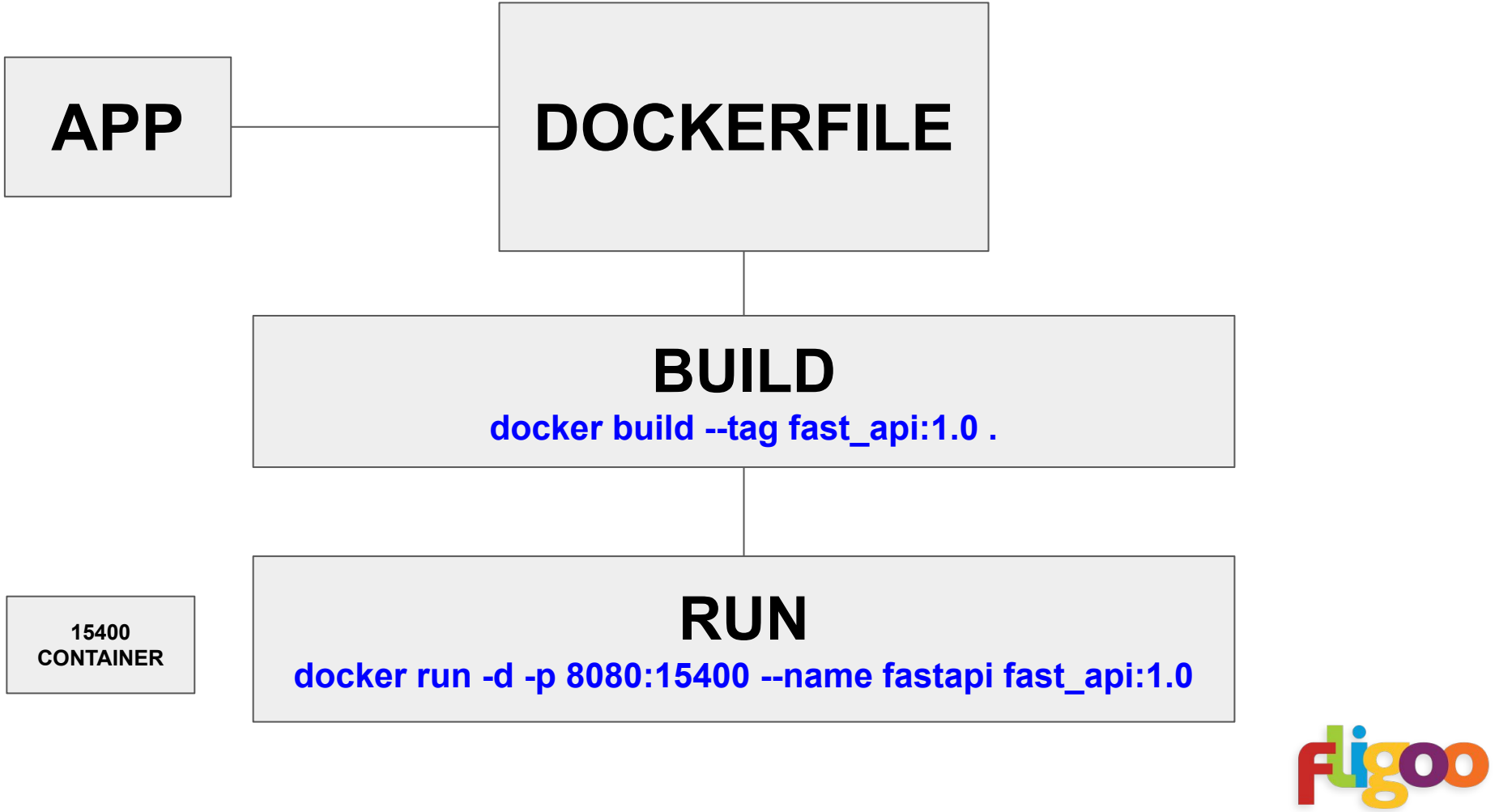
FastAPI

FastAPI

FastAPI framework, high performance, easy to learn, fast to code, ready for production




APP
DOCKERFILE
BUILD
docker build --tag fast_api:1.0 .
RUN
docker run -d -p 8080:15400 --name fastapi fast_api:1.0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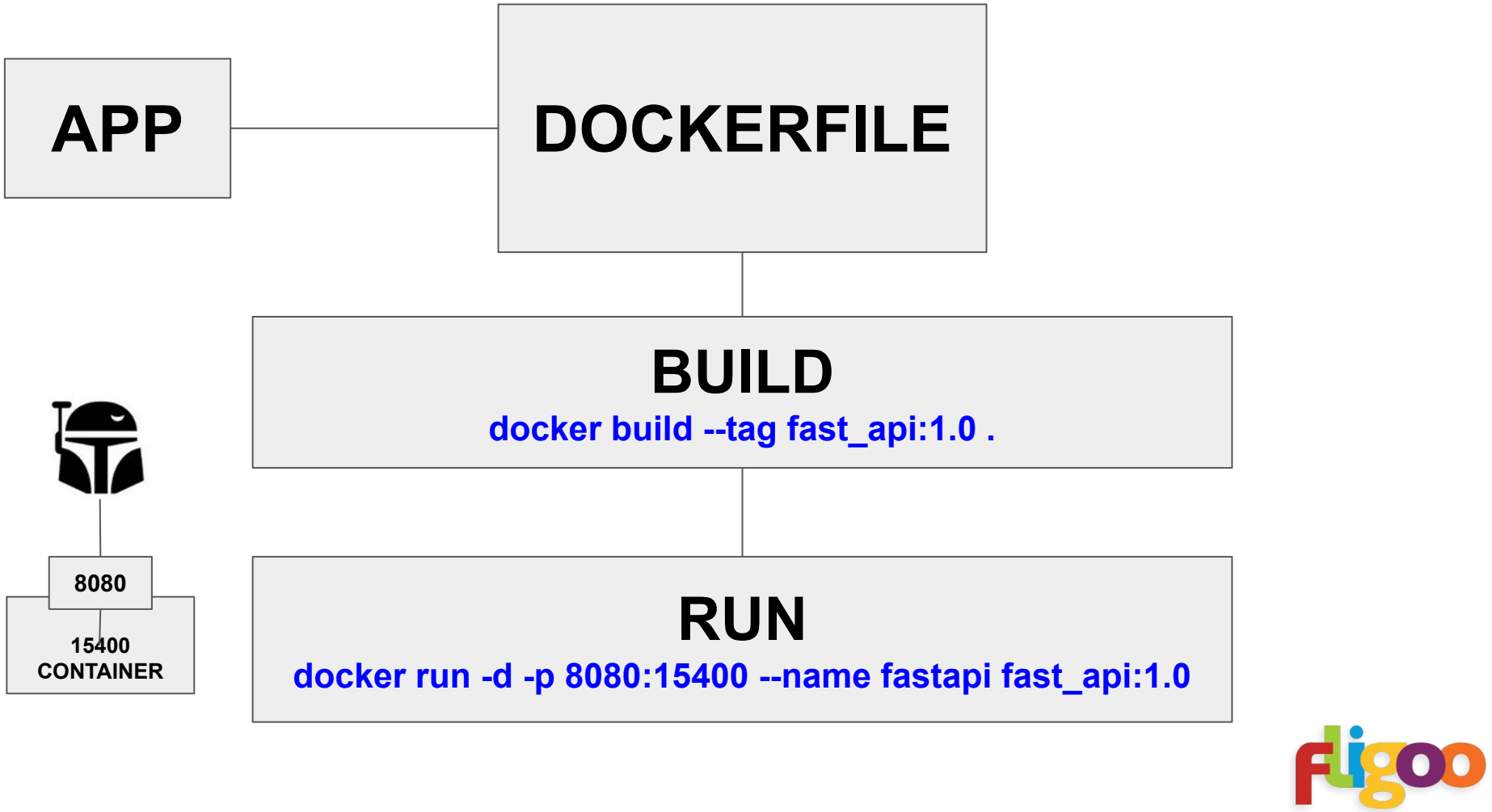
CONTAINER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15400
CONTAINER
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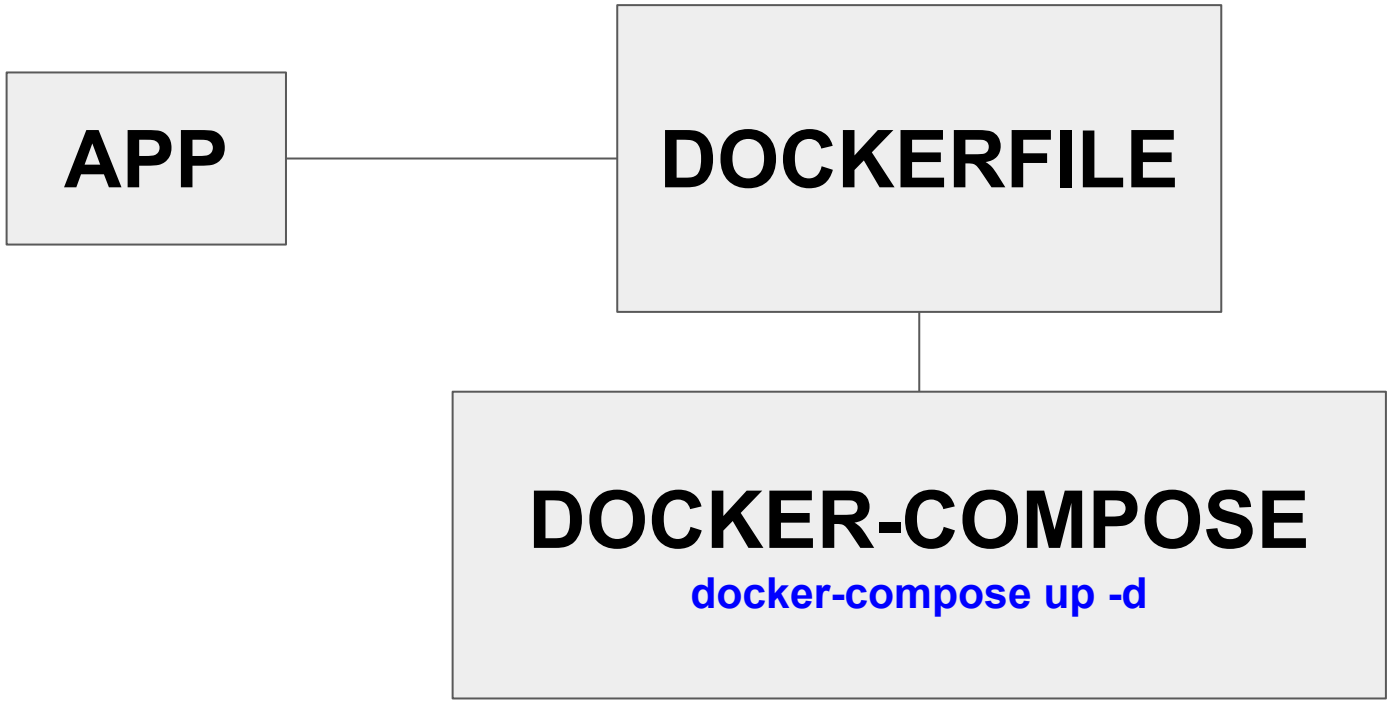
APP
DOCKERFILE
DOCKER-COMPOSE
docker-compose up -d

API

CI / CD

DEPLOYMENT

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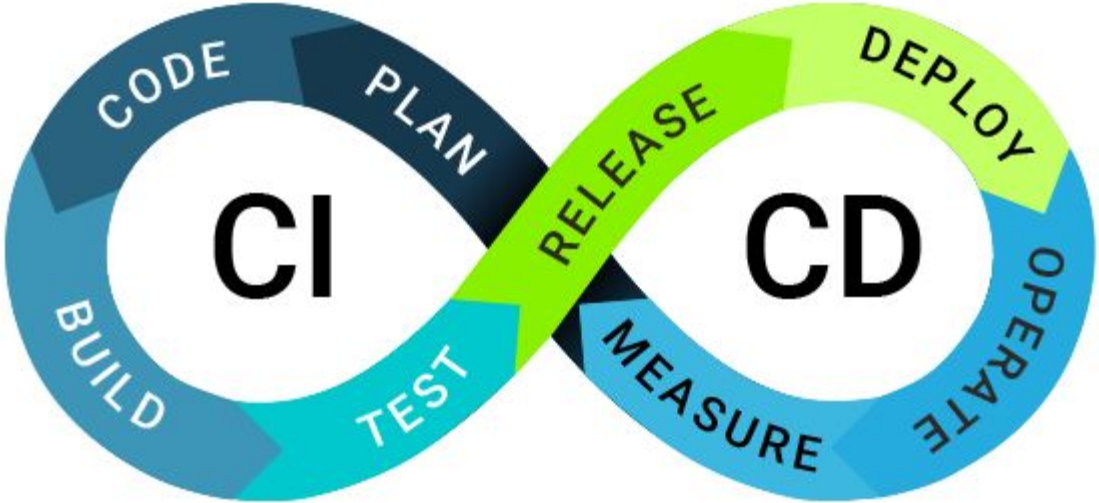
CODE
PLAN
BUILD
TEST
CI
RELEASE
DEPLOY
OPERATE
MEASURE
CD

Continuous integration (CI) is a process that implements testing on every change, enabling users to see if their changes break anything in the environment.

Continuous delivery (CD) / Continuous deployment (CD) is the practice of building software in a way that allows you to deploy any successful release candidate to production at any time.

Extend GitHub

Add tools to help you build and grow

Explore apps

Types

Search for apps and actions

Apps

Actions

Recommended for you

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1) ubuntu-latest
2) Check out the repo
3) Repo metadata
4) Prepare
5) Set up QEMU
6) Set up Docker Buildx
7) Login to DockerHub
8) Build and push
9) Sync Readme Github - Dockerhub
10) Image digest
11) Run Snyk to check Docker image for vulnerabilities
12) Slack notification

.YML
GitHub Actions

API

CI / CD

DEPLOYMENT

kubernetes

minikube

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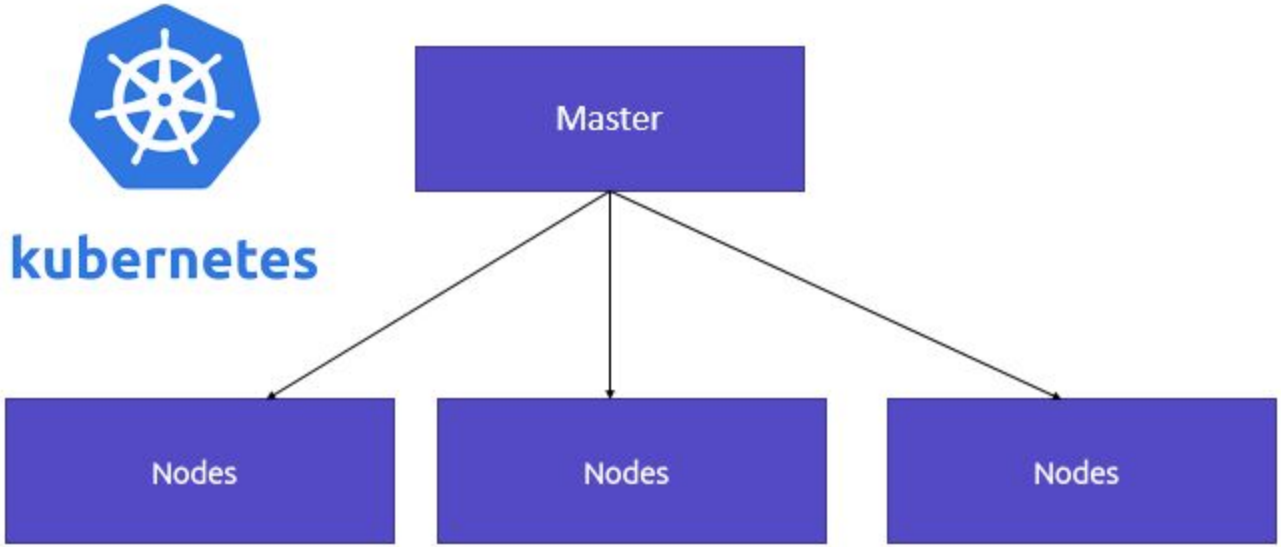
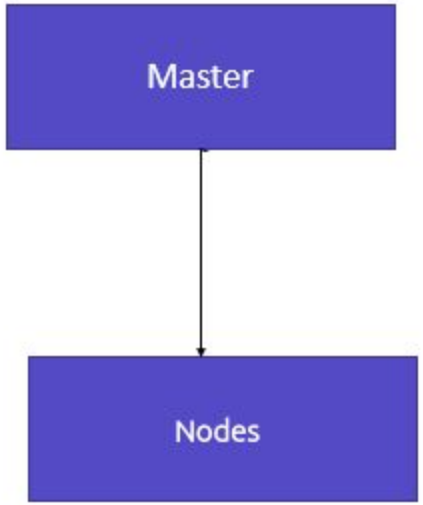
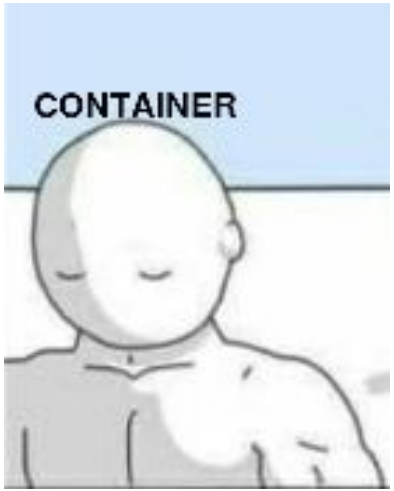
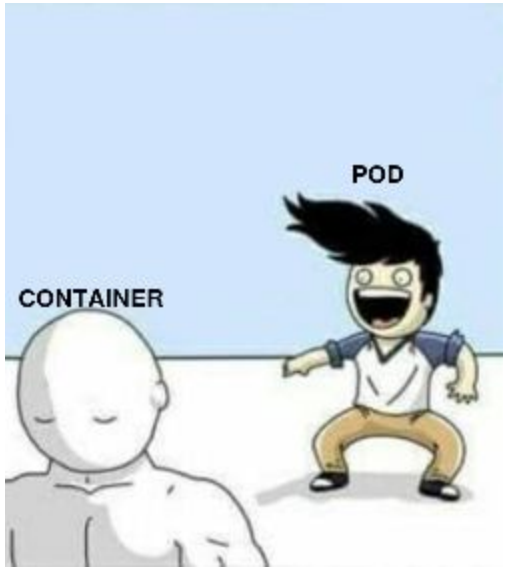
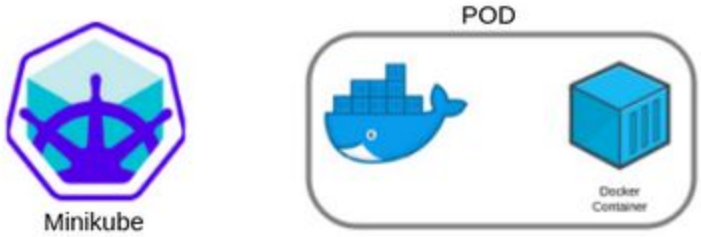

kubernetes
Master
Nodes
Nodes
Nodes

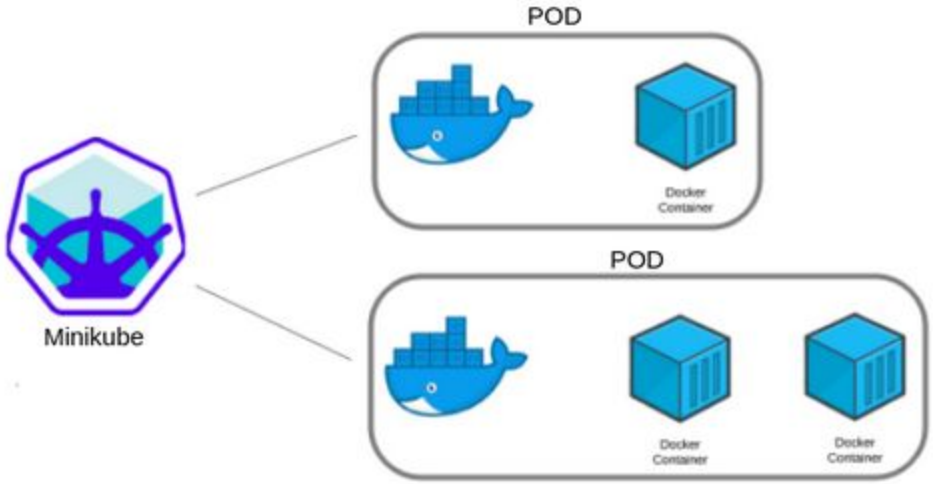
minikube

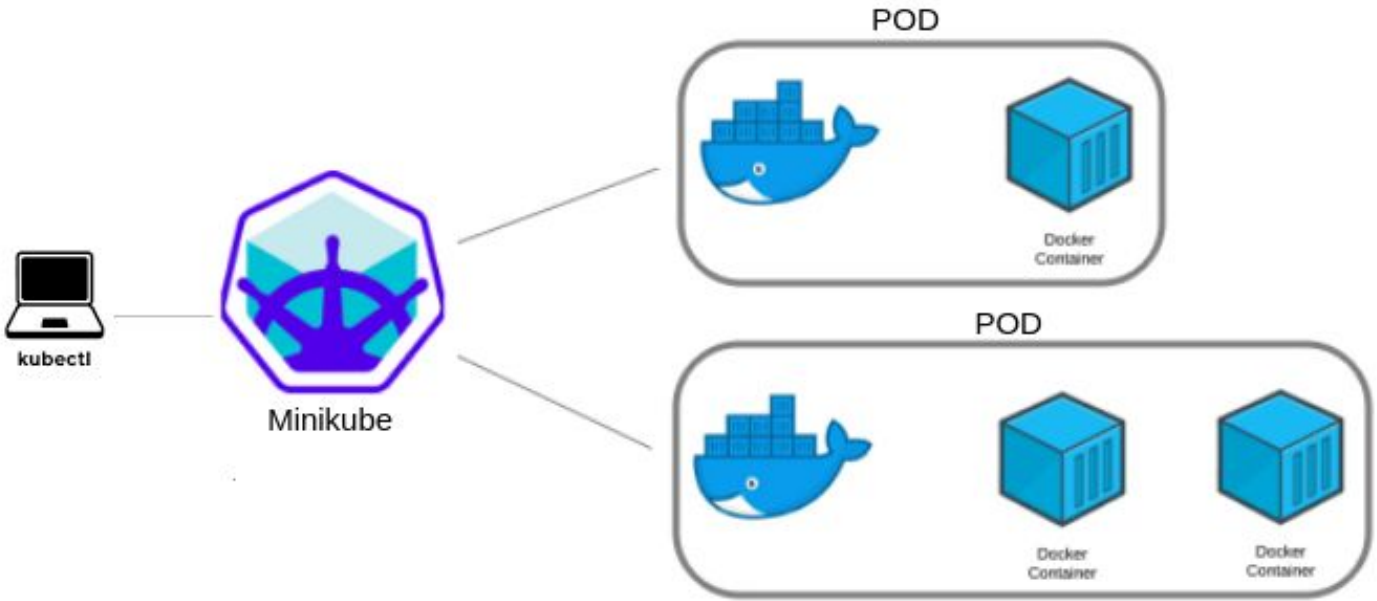

Master
Nodes


CONTAINER


POD
CONTAINER

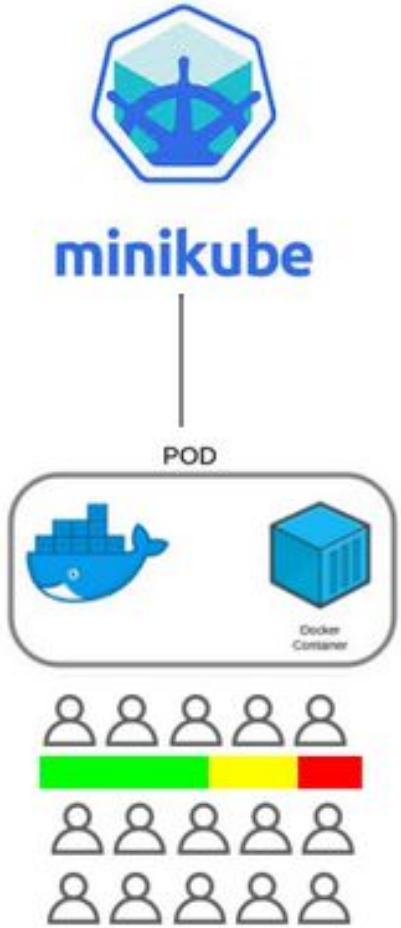

POD
Minikube
Docker
Container


POD
Docker Container
POD
Docker Container
Docker Container
Minikube

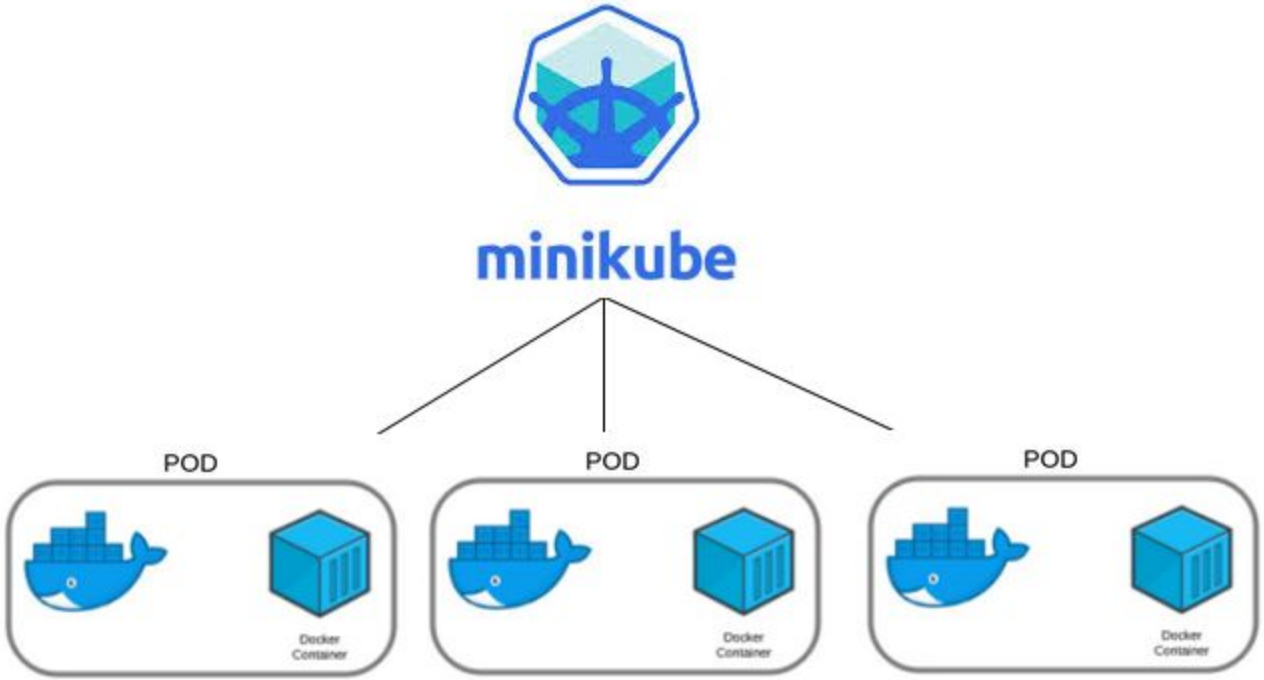

POD
Docker
Container
POD
Docker
Container
Docker
Container
kubectl
Minikube

minikube
POD
Docker
Container

minikube
POD
Docker
Container


minikube
POD
Docker
Container

REPLICASET
POD


minikube
POD
Docker Container
POD
Docker Container
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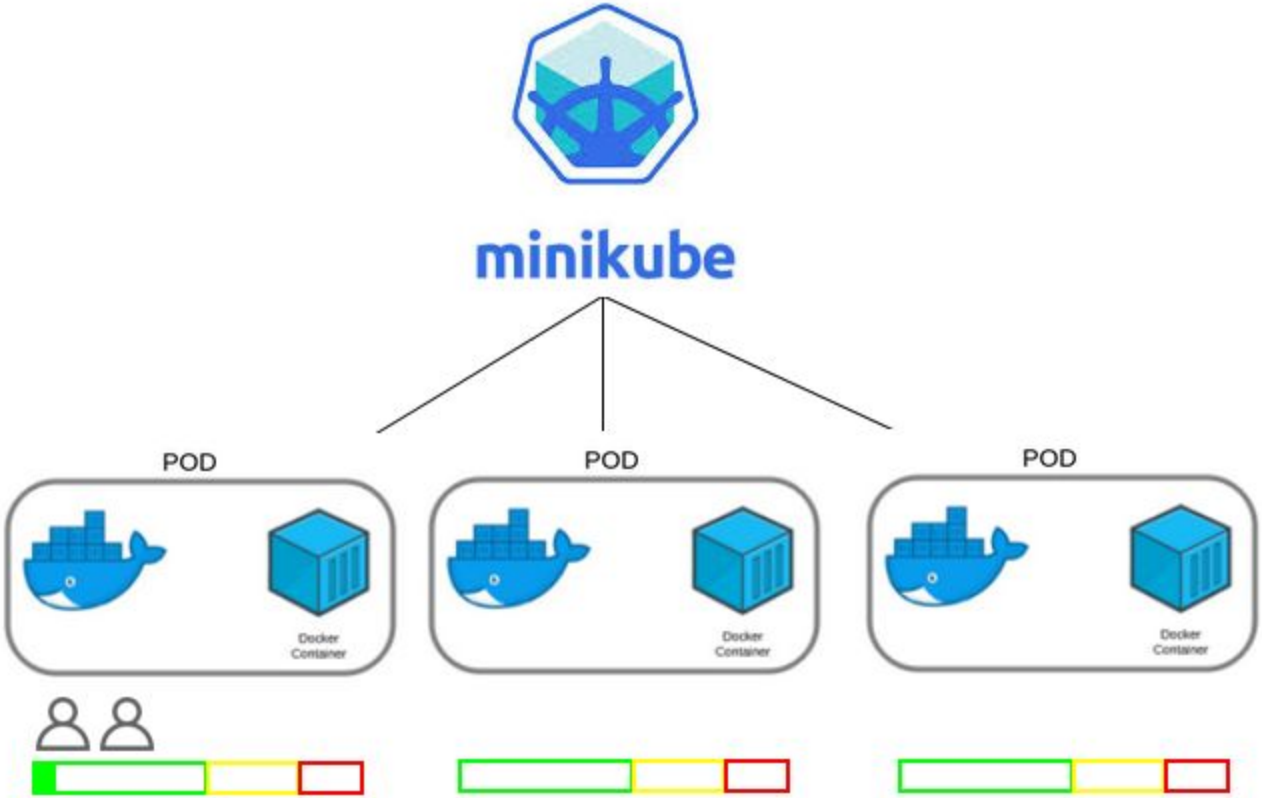
Docker Container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Docker Container
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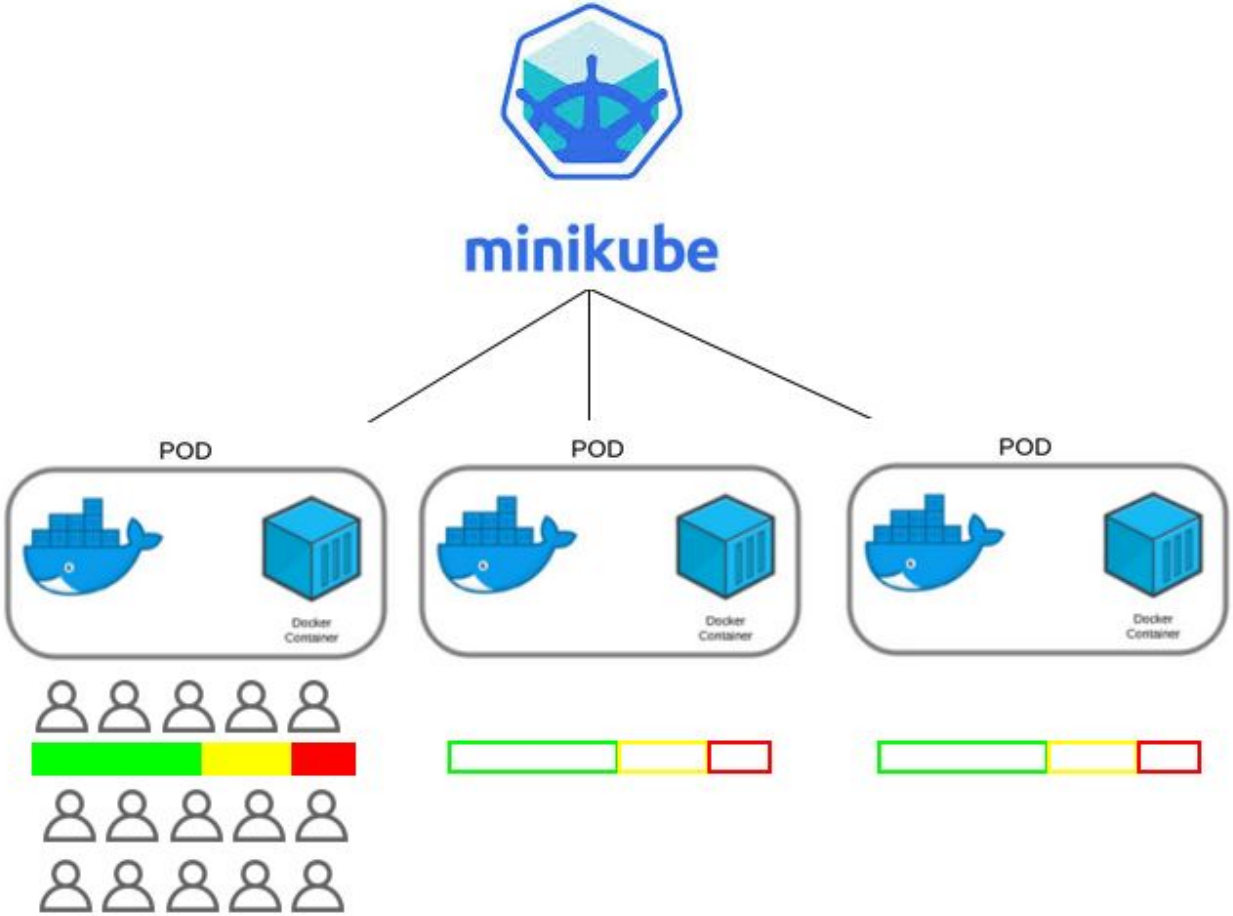
minikube
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Docker Container
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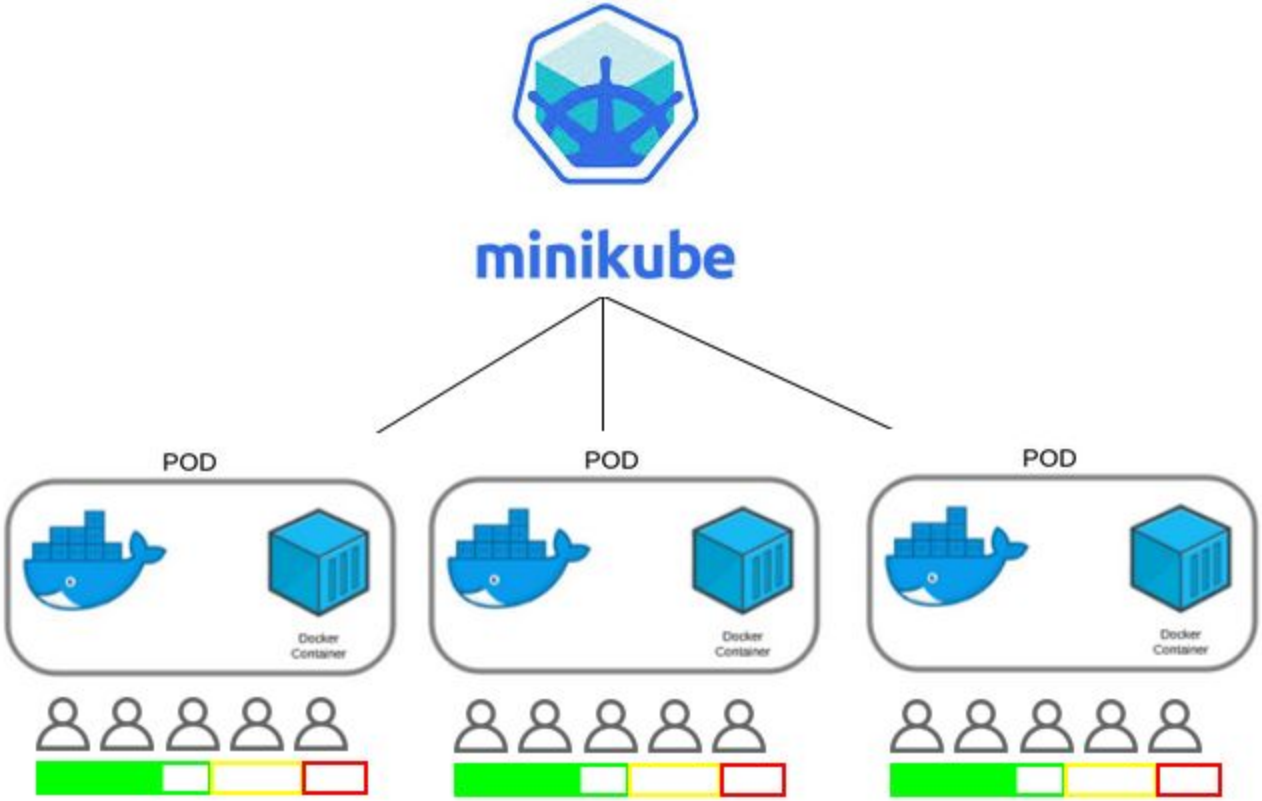
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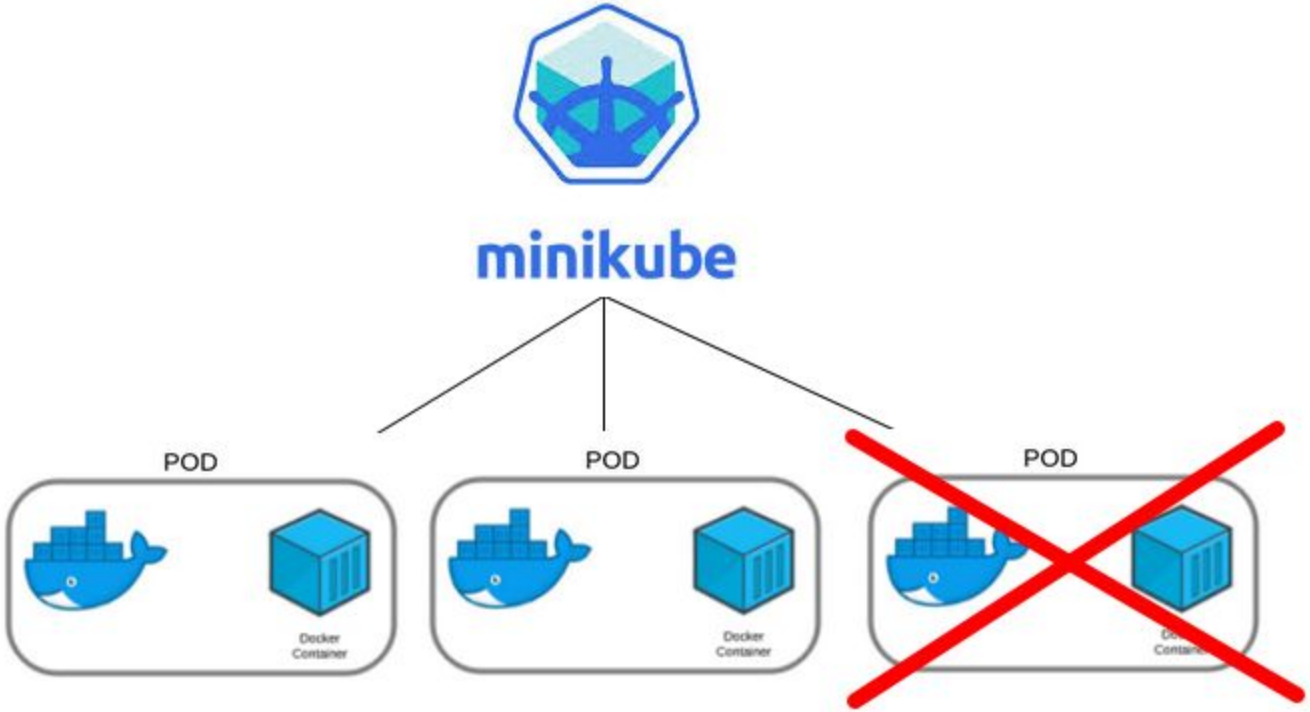
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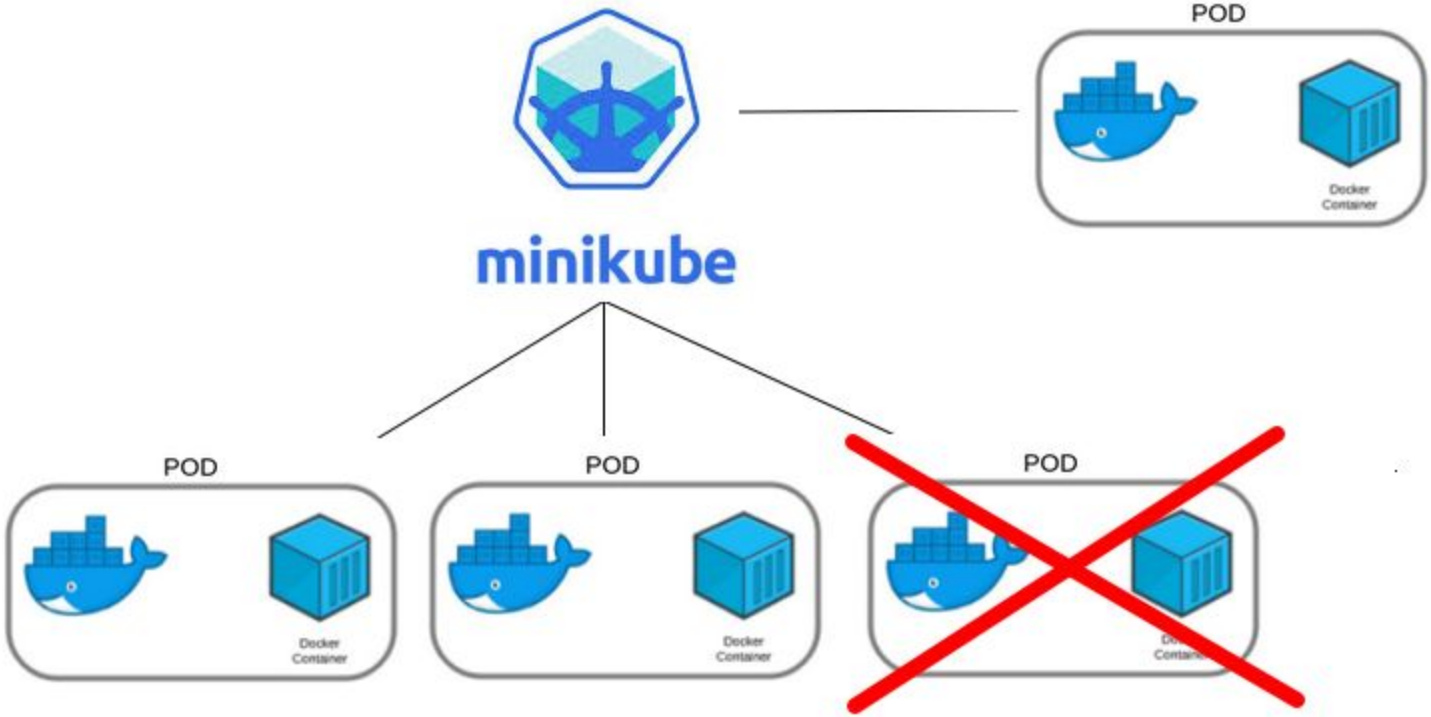
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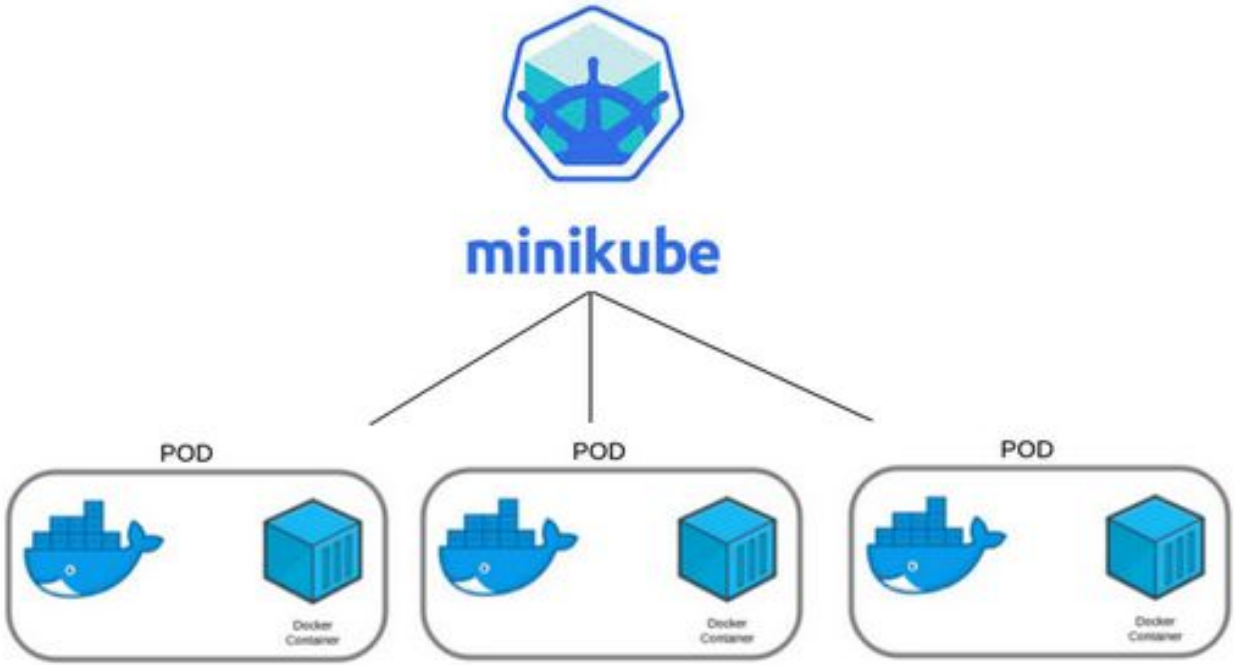
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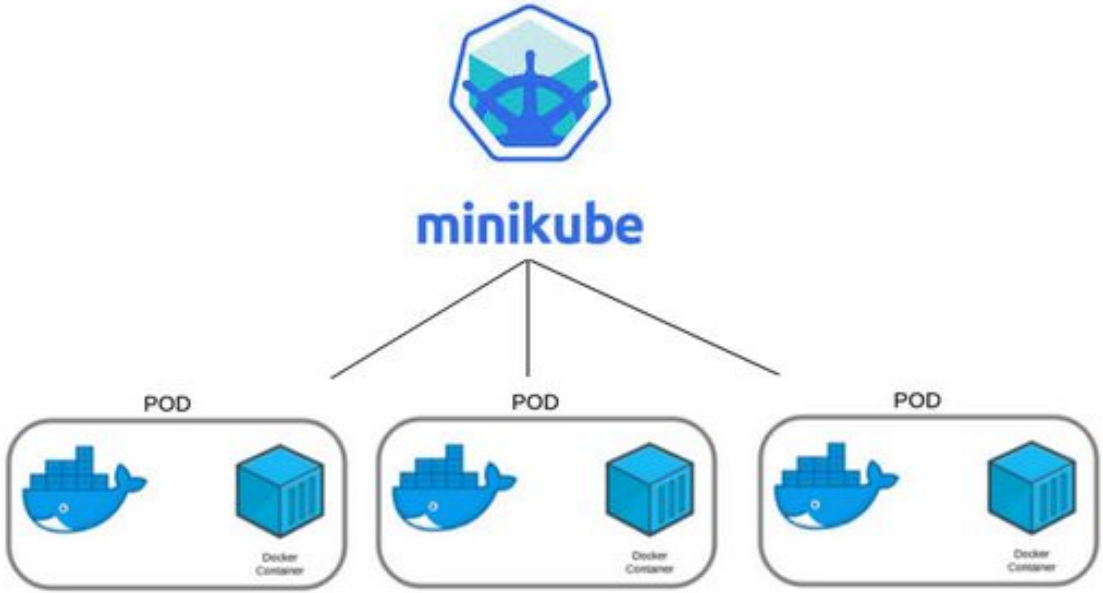
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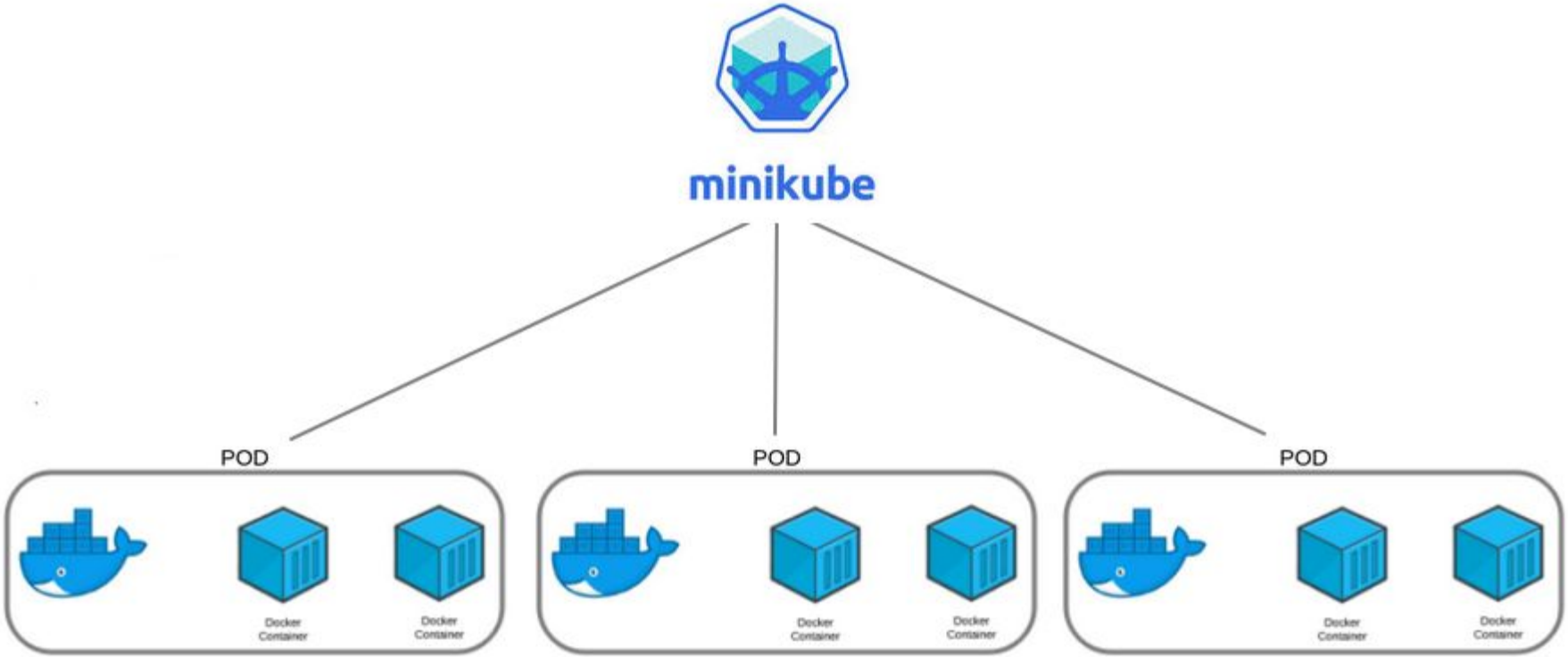
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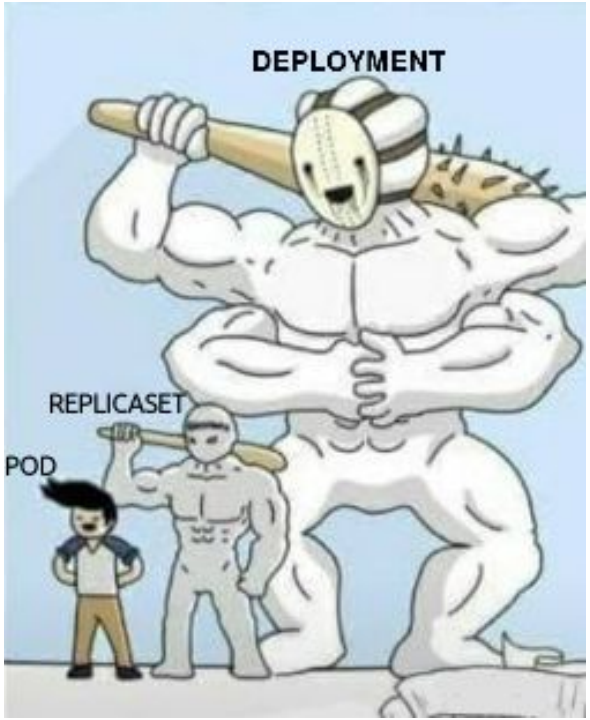
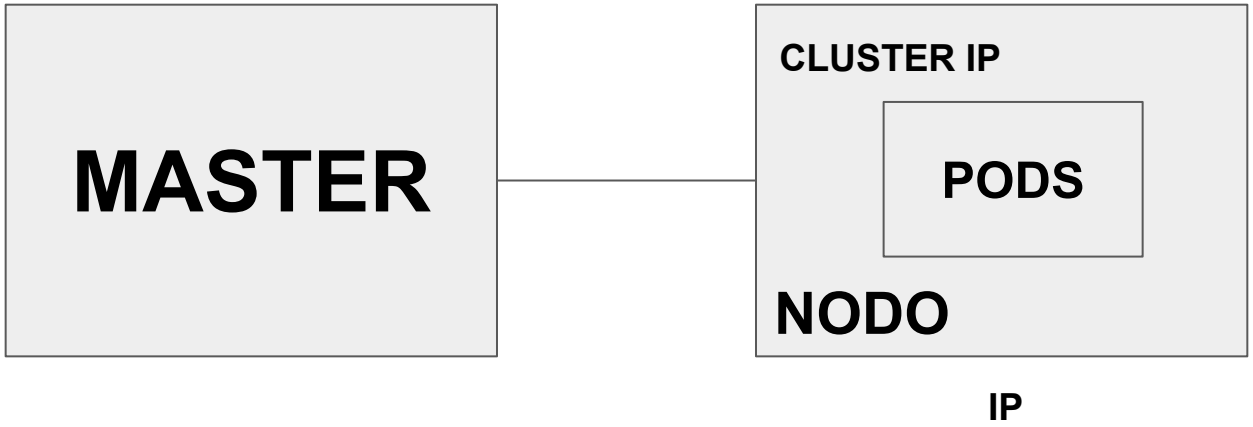
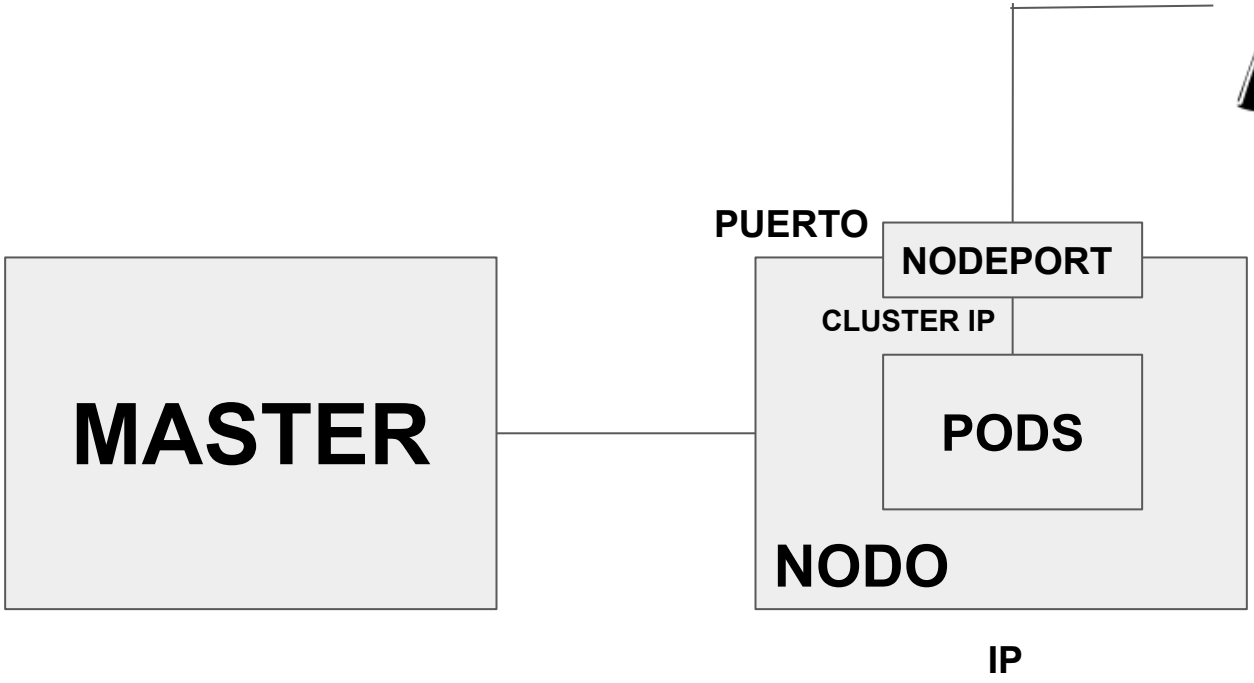

DEPLOYMENT
REPLICASET
POD


MASTER
CLUSTER IP
PODS
NODO
IP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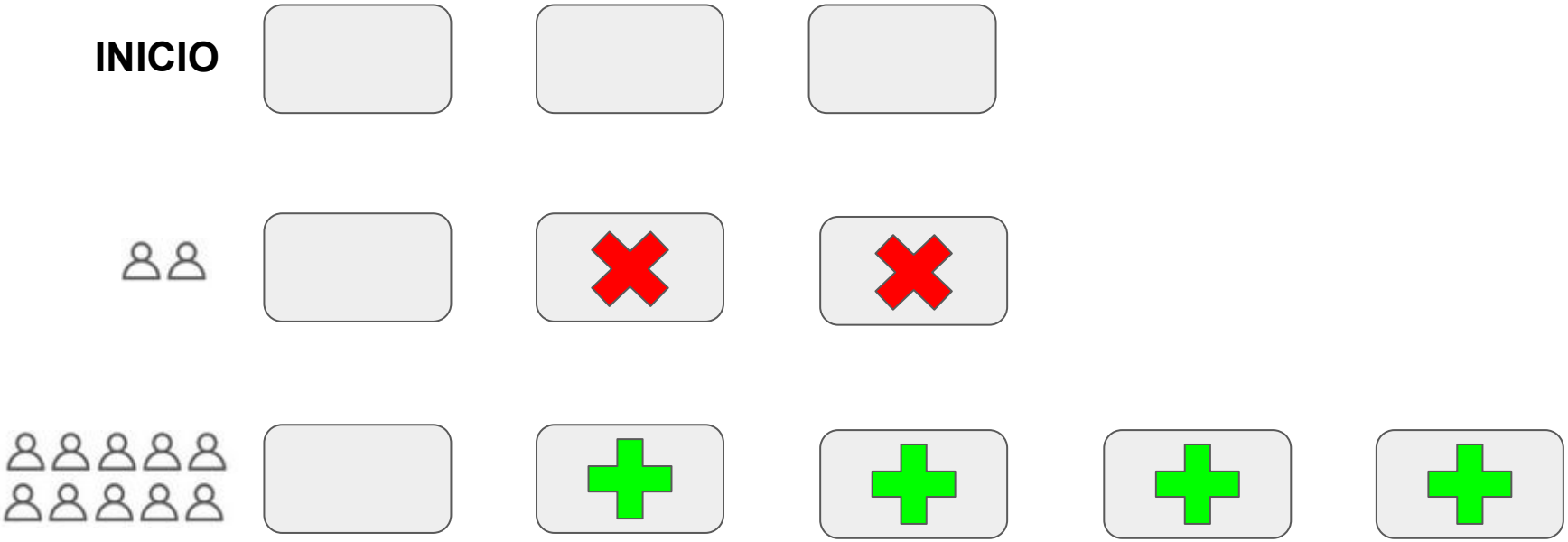
NODEPORT
CLUSTER IP
MASTER
PODS
NODO
IP

HPA



API

CI / CD

DEPLOYMENT

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Questions?