

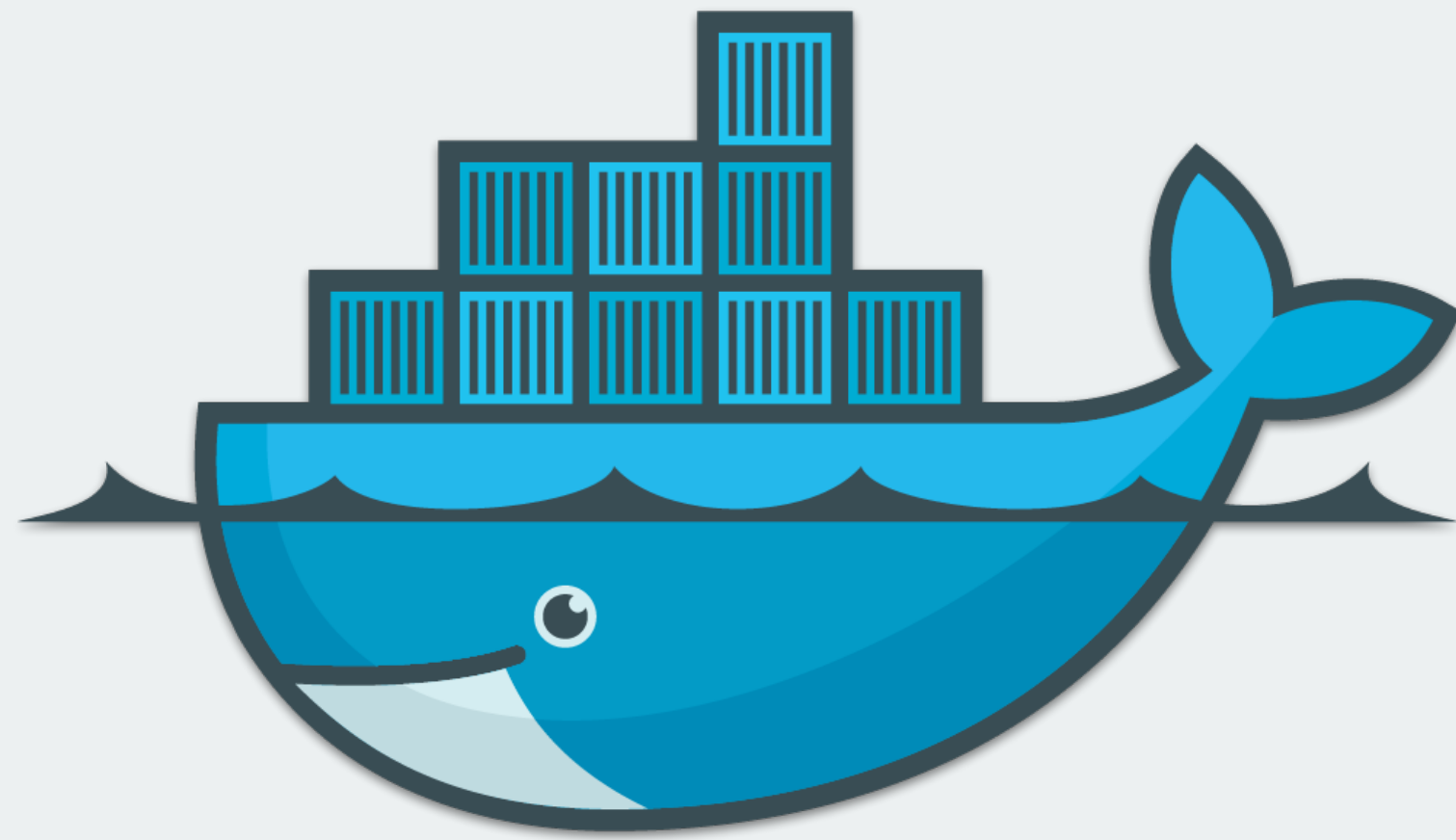
Docker Workshop

Plamen Kalchev

Resources

<https://github.com/icnbg/docker-workshop>

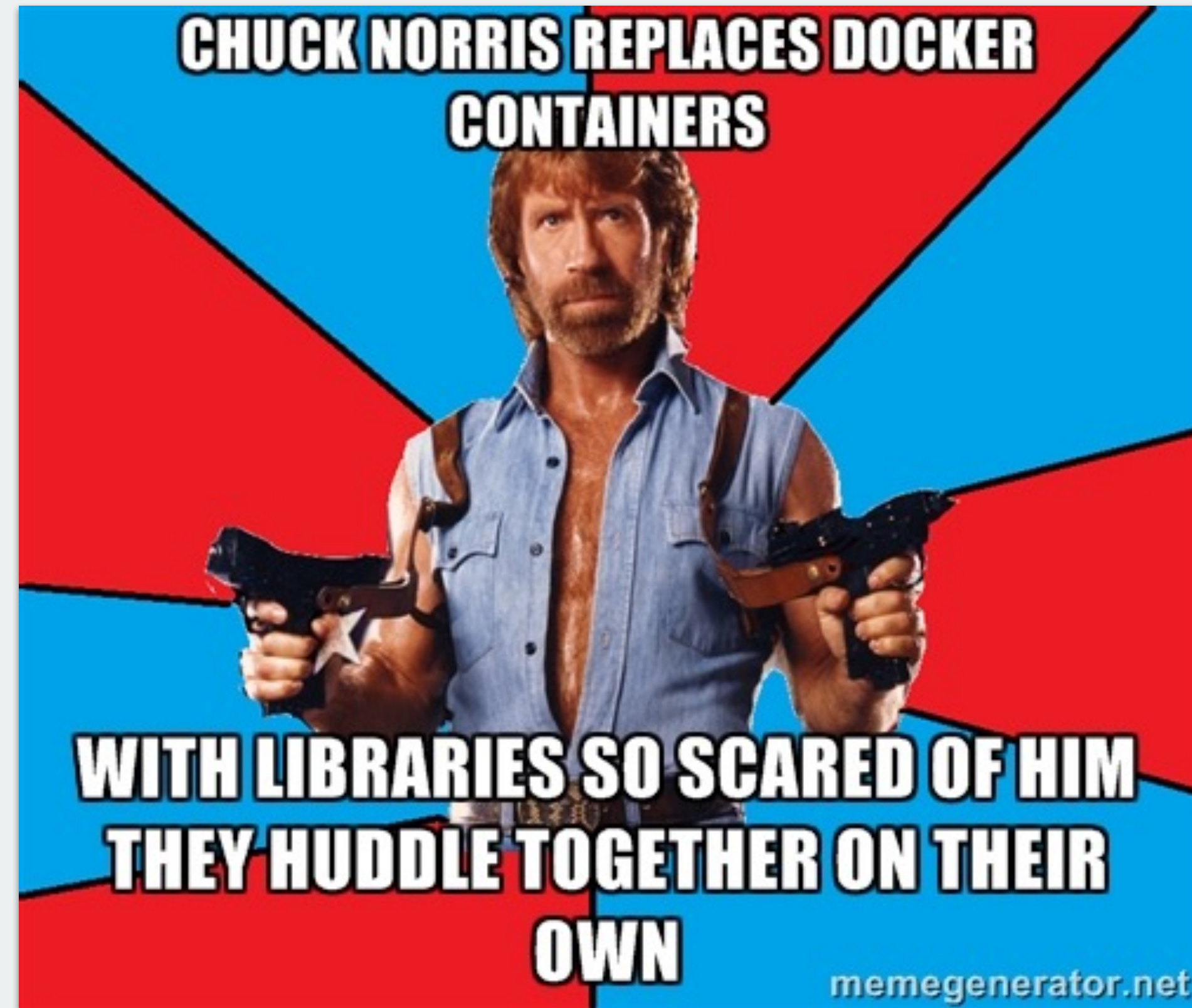
What is Docker?



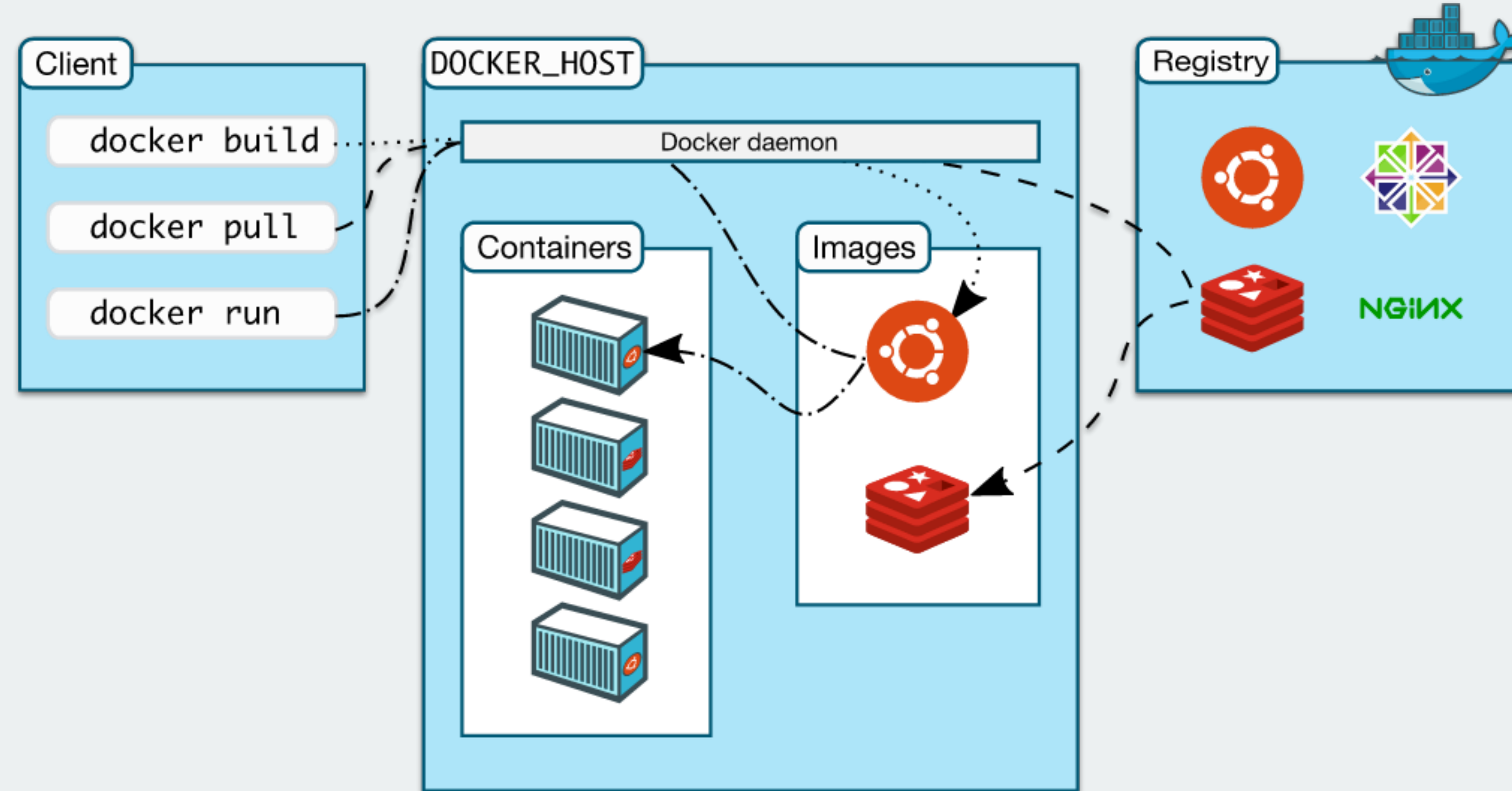
docker

Microservices Immutable Infrastructure Stateless Applications

Why use it?



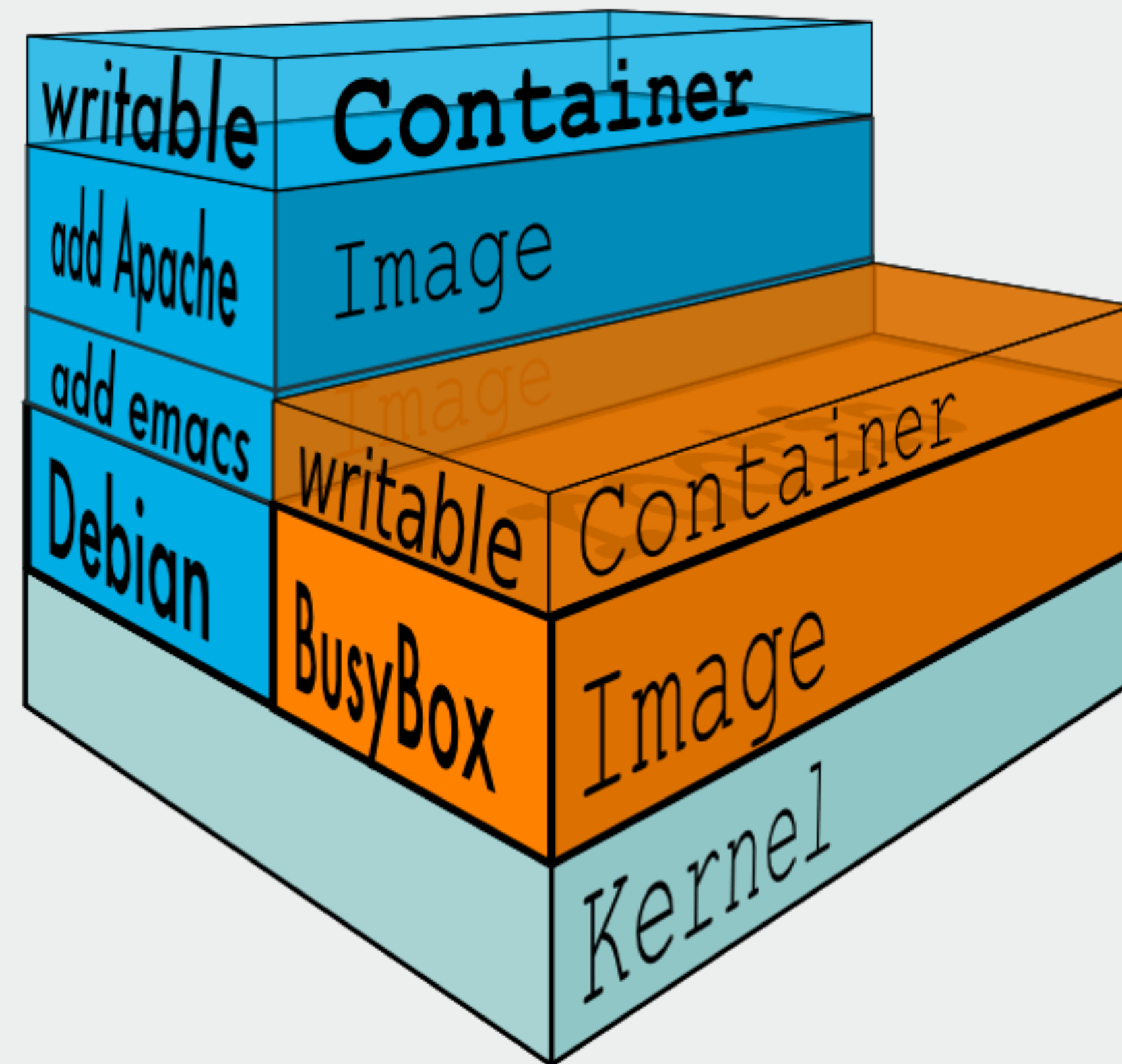
The Docker Platform



Containers and Images



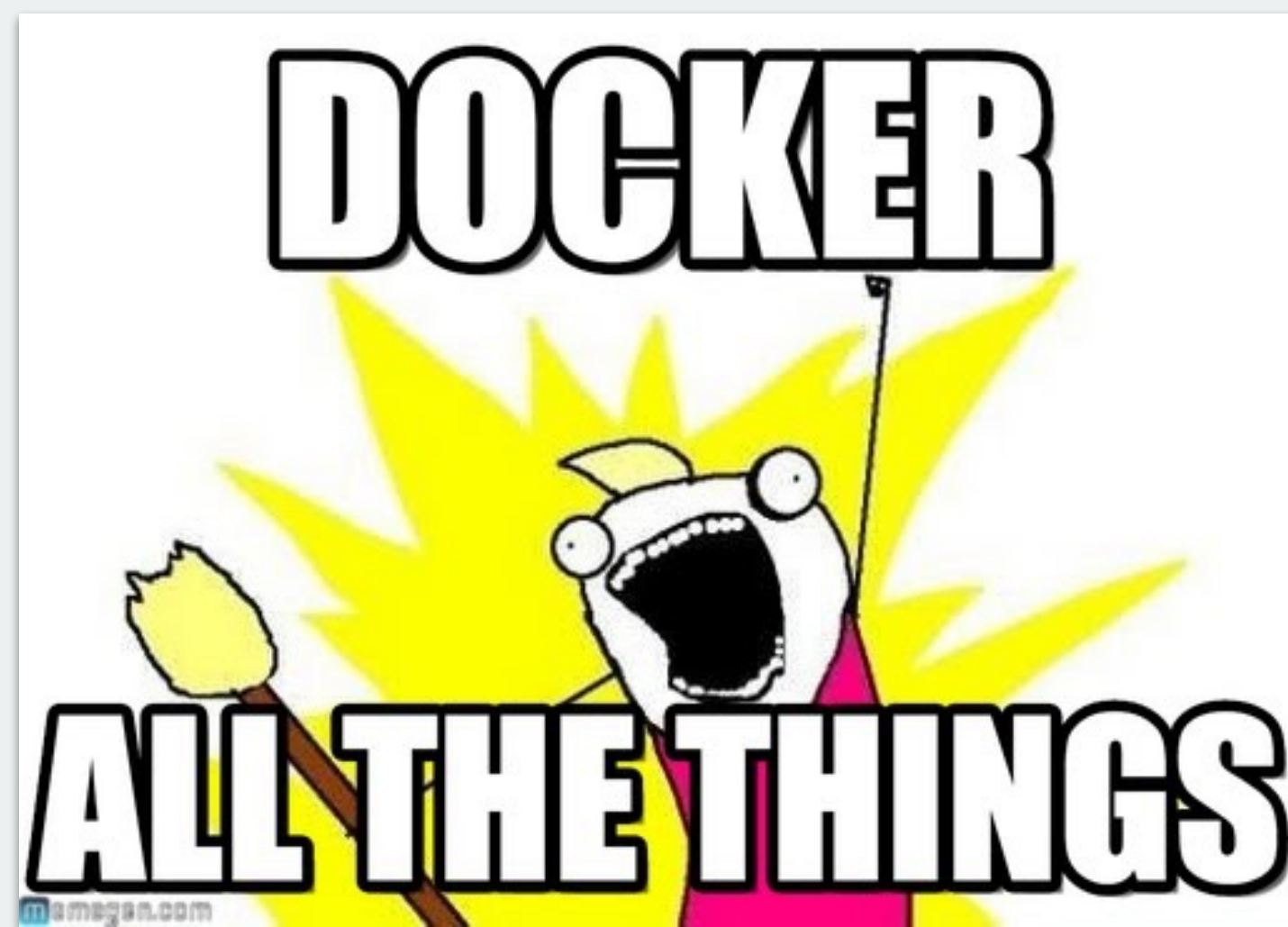
Storage and Volumes



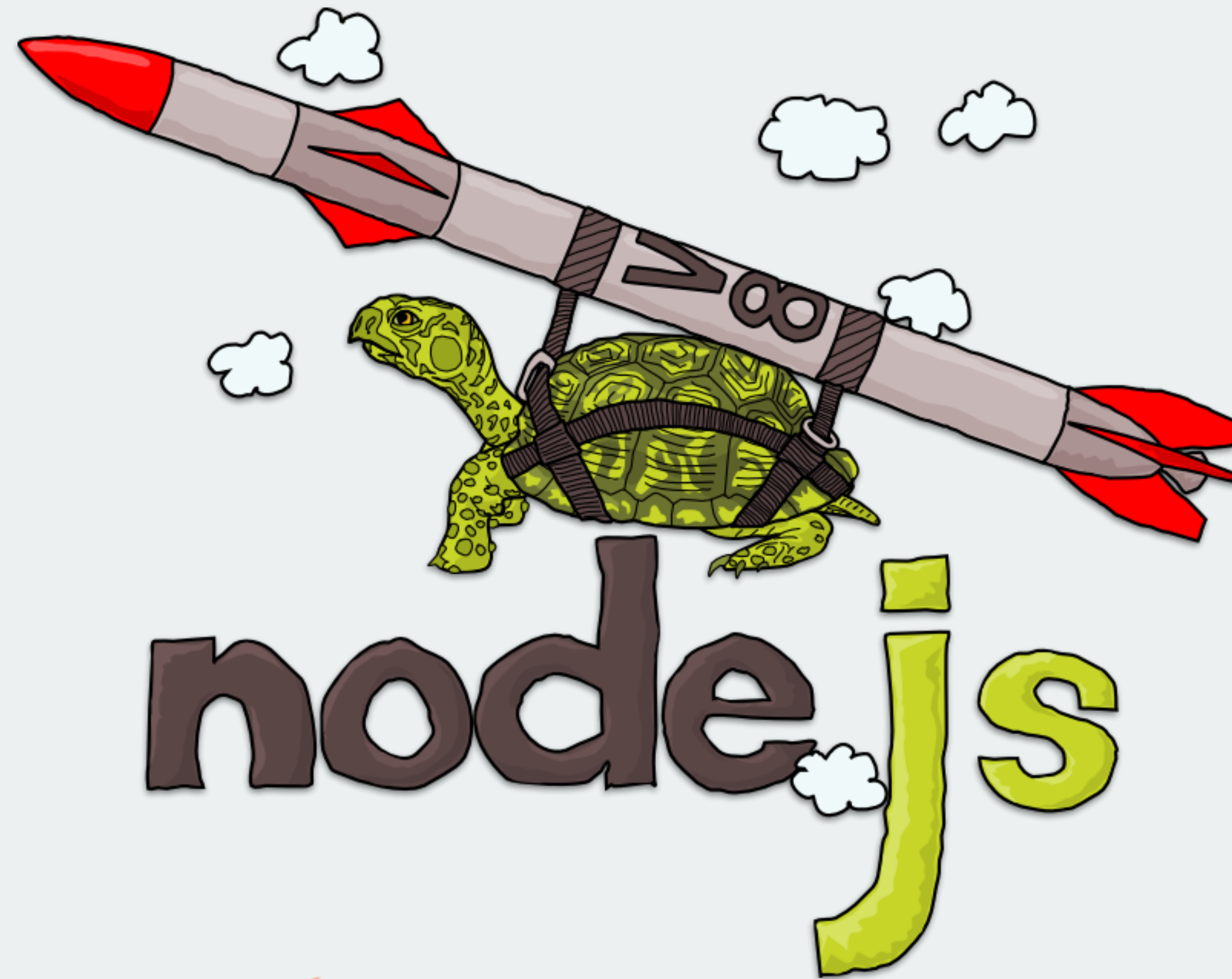
Building our own images

```
23 lines (14 sloc) | 673 Bytes  Raw Blame History
1 FROM debian:jessie
2
3 MAINTAINER NGINX Docker Maintainers "docker-maint@nginx.com"
4
5 RUN apt-key adv --keyserver hkp://pgp.mit.edu:80 --recv-keys 573BFD6B3D8FBC641079A6ABABF5BD827BD9BF62
6 RUN echo "deb http://nginx.org/packages/mainline/debian/ jessie nginx" >> /etc/apt/sources.list
7
8 ENV NGINX_VERSION 1.9.6-1~jessie
9
10 RUN apt-get update && \
11     apt-get install -y ca-certificates nginx=${NGINX_VERSION} && \
12     rm -rf /var/lib/apt/lists/*
13
14 # forward request and error logs to docker log collector
15 RUN ln -sf /dev/stdout /var/log/nginx/access.log
16 RUN ln -sf /dev/stderr /var/log/nginx/error.log
17
18 VOLUME ["/var/cache/nginx"]
19
20 EXPOSE 80 443
21
22 CMD ["nginx", "-g", "daemon off;"]
```

Examples



Hello

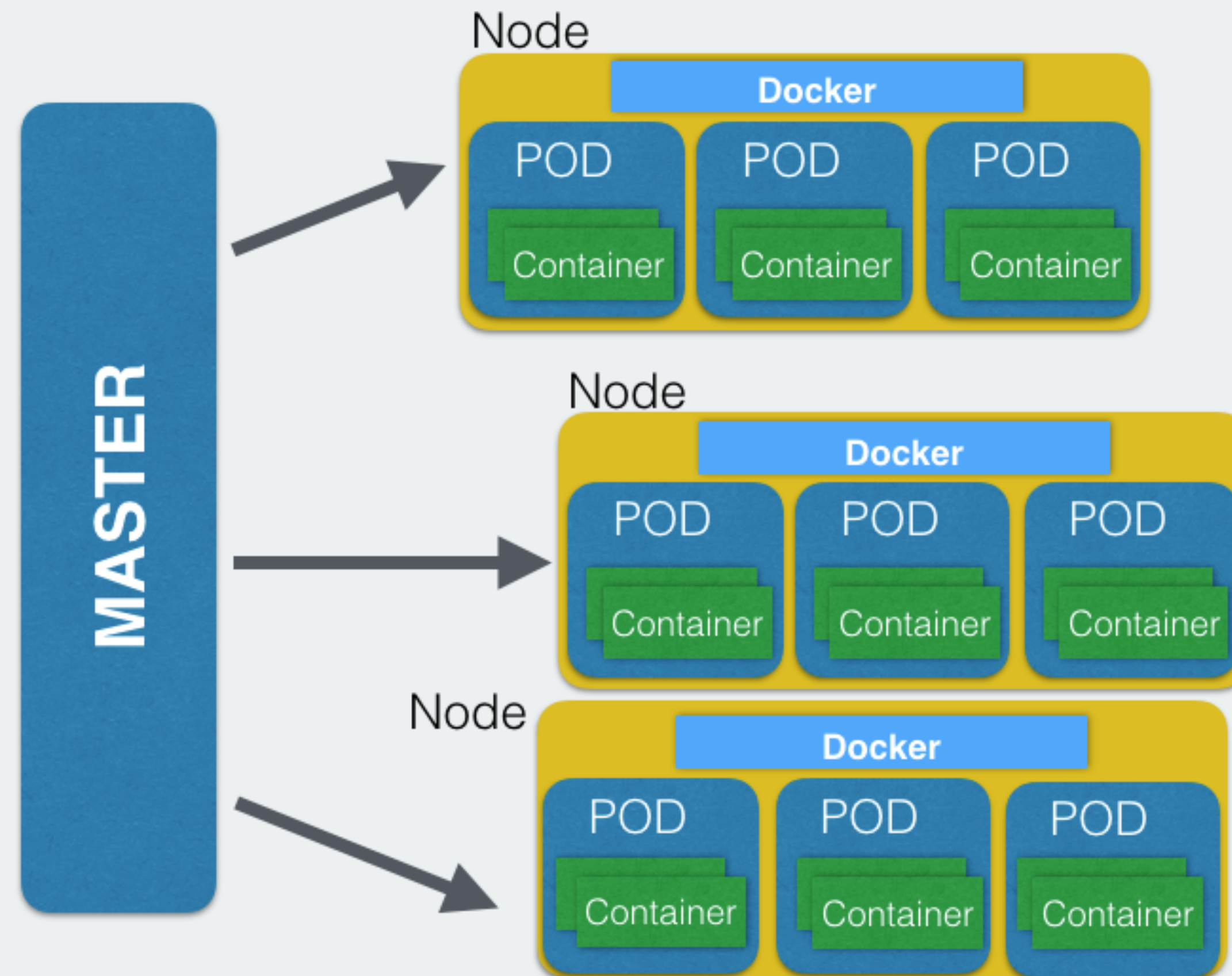


Docker summary

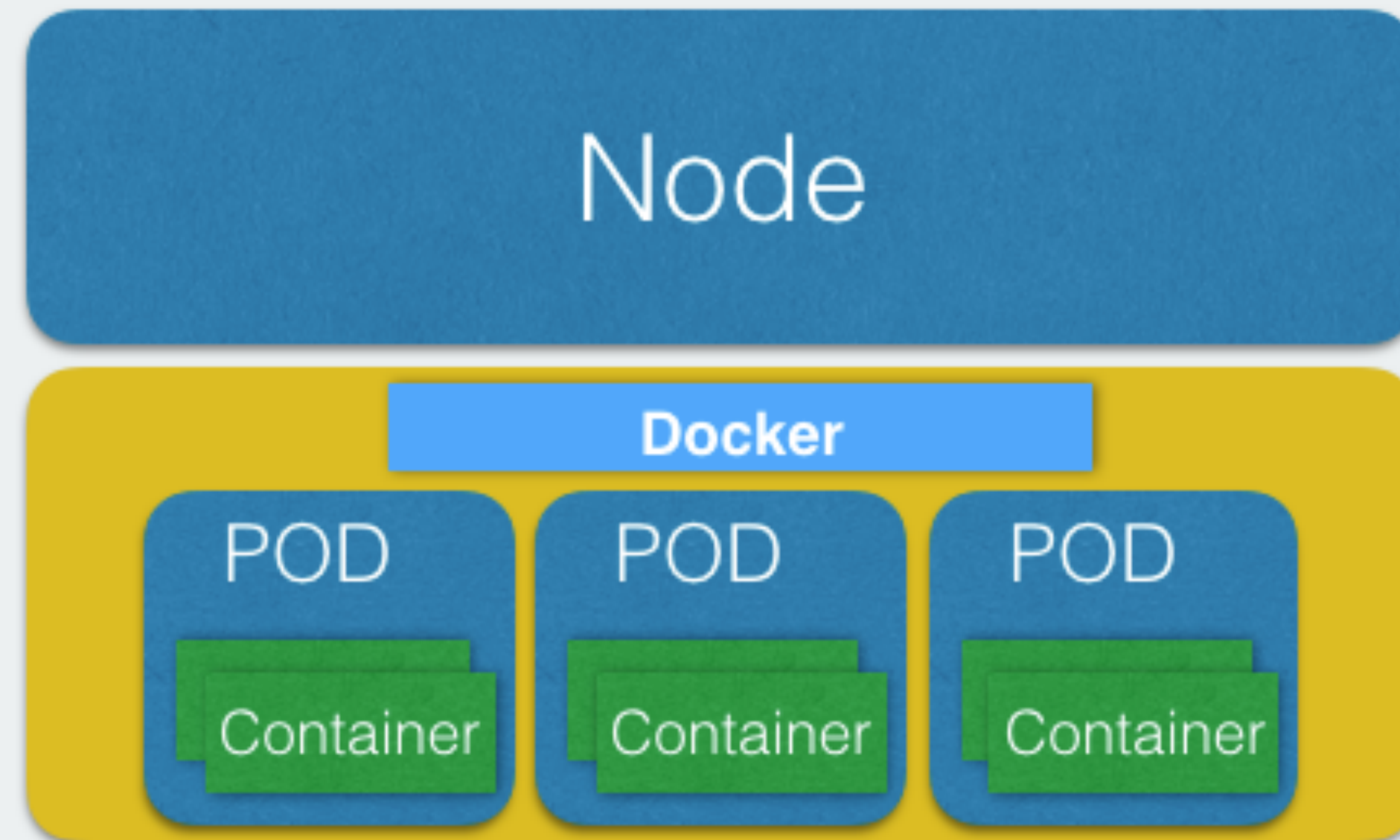
What is Kubernetes?



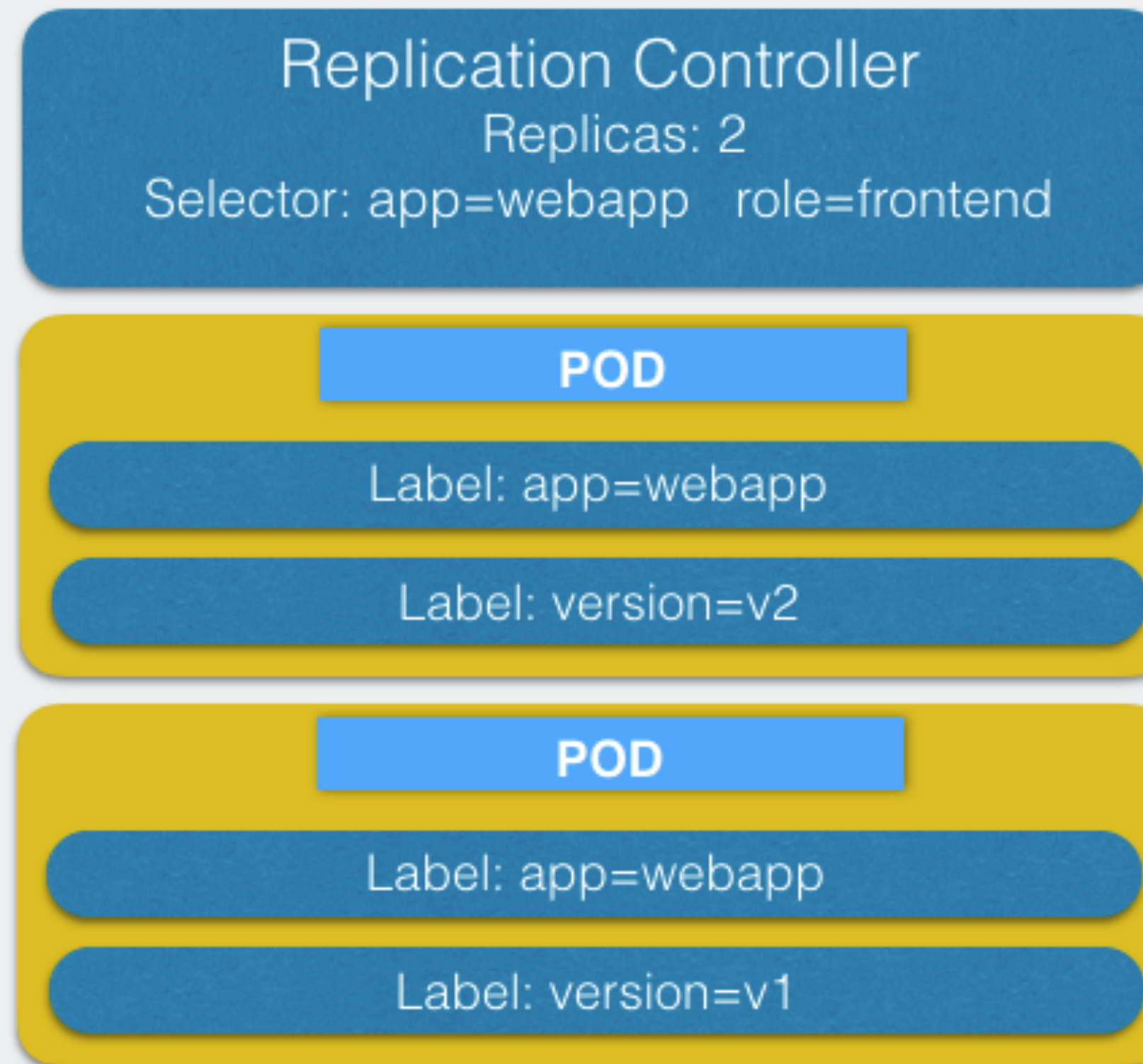
How it works?



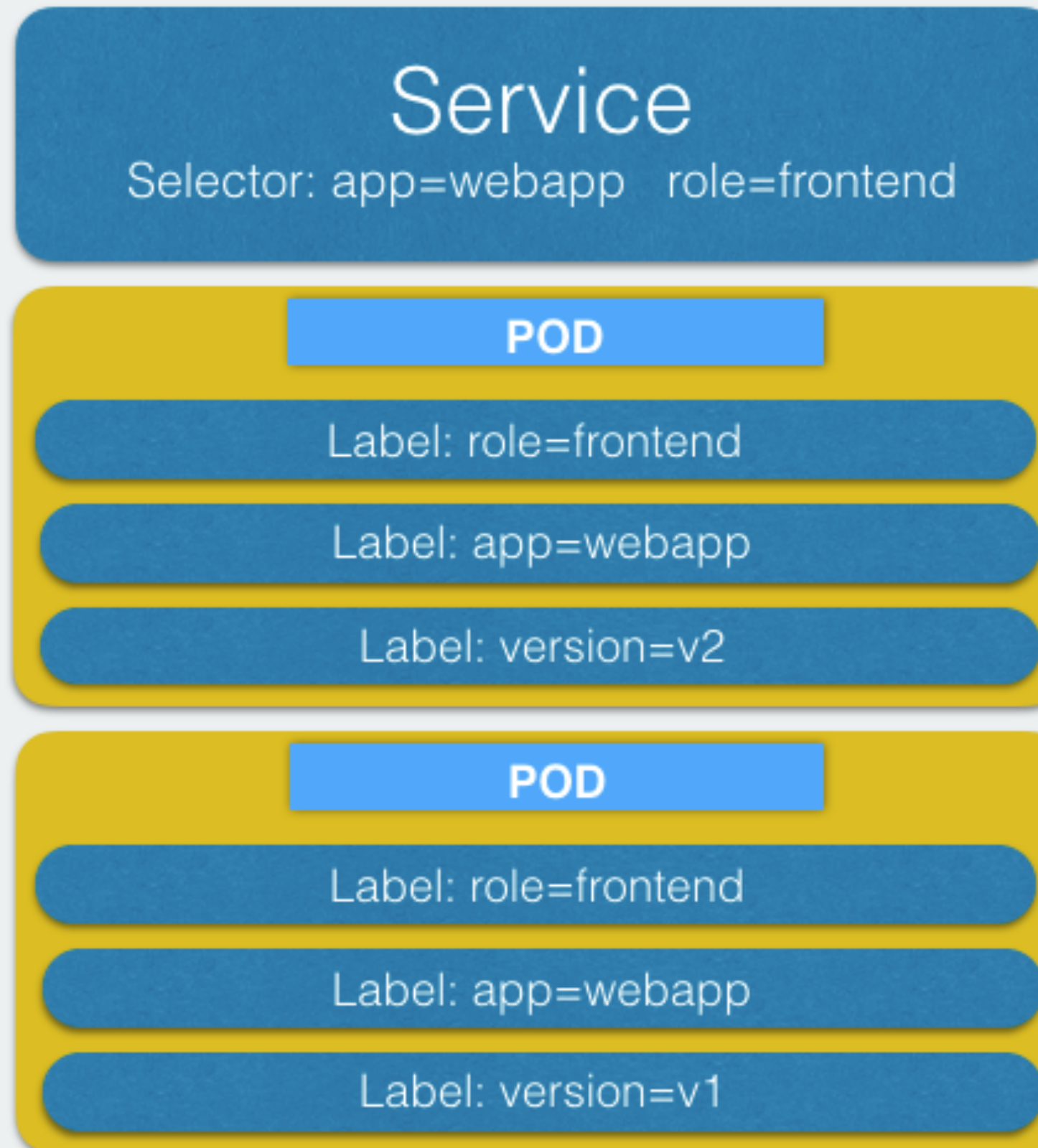
Pods



Replication Controllers



Services



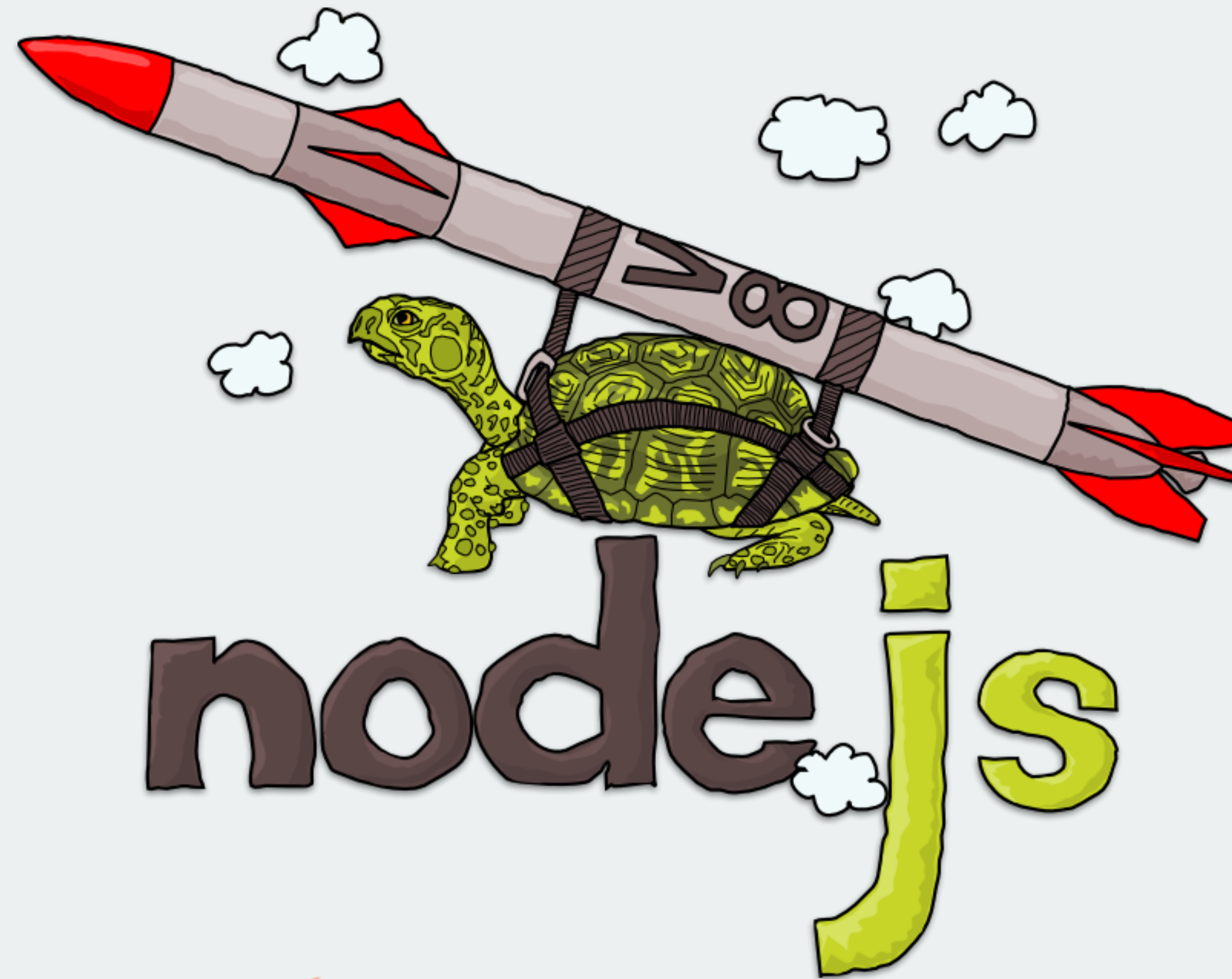
Kubernetes summary

Pods
RC
Services
Labels
Selectors

ICN.Bg Apps



Hello



Migrating from local Docker to the cluster

Build
Tag
Push
Deploy via UI

Questions?

