

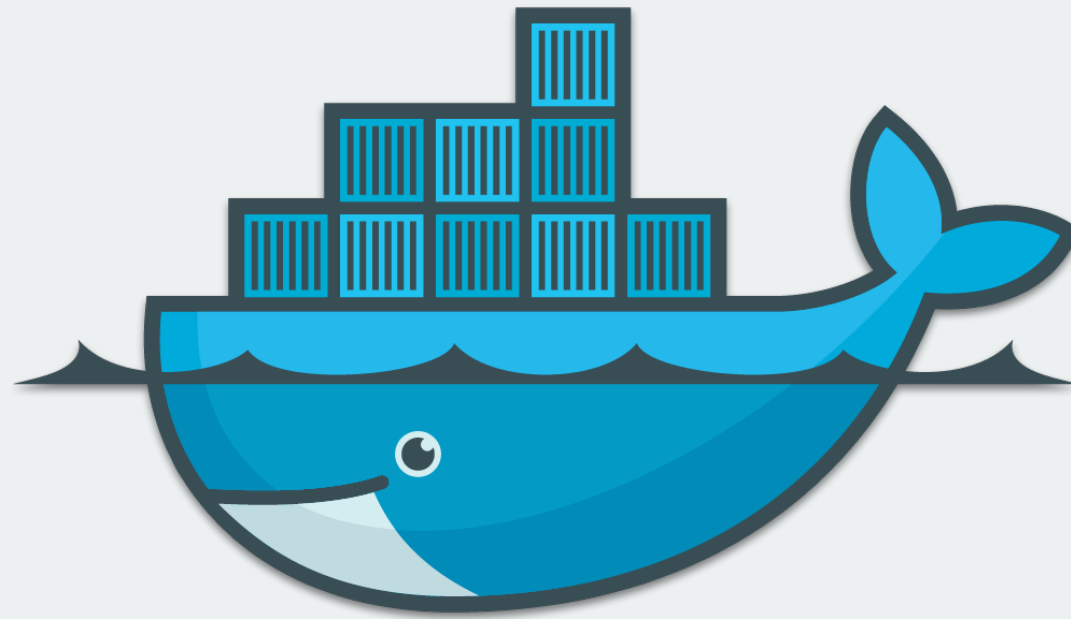
Docker Workshop

Plamen Kalchev

Resources

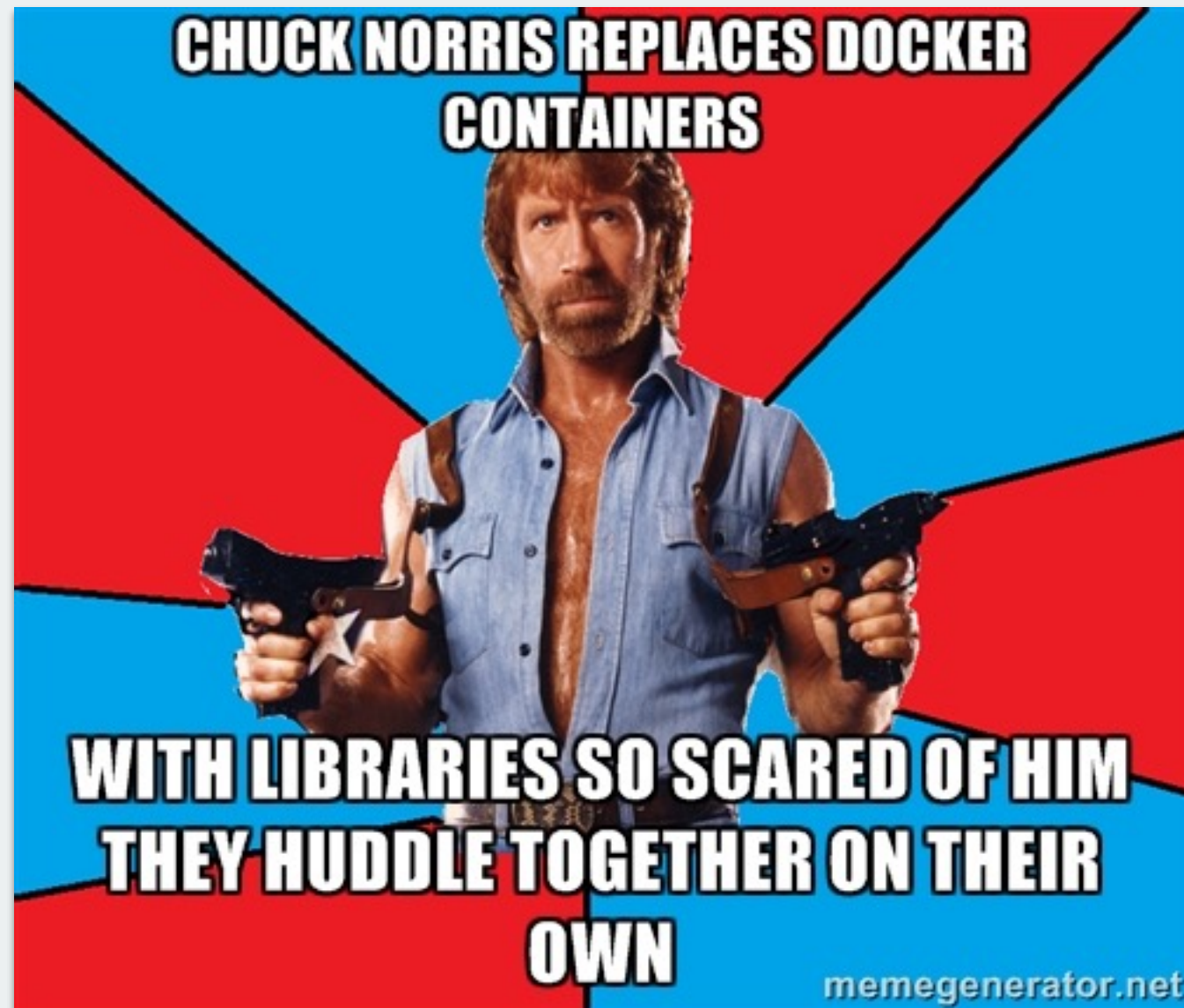
rincewind.local:3000

What is Docker?

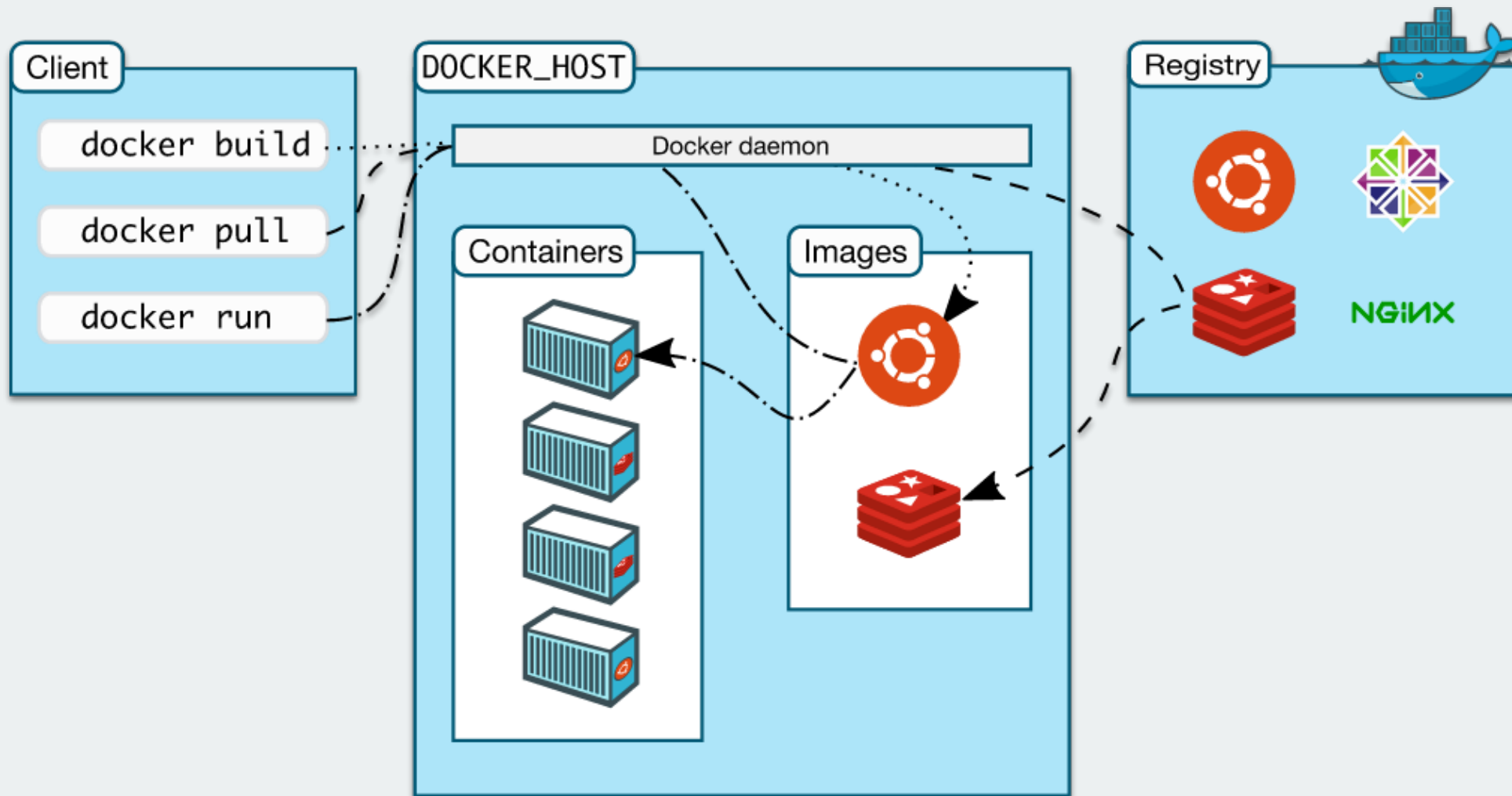


docker

Why use it?



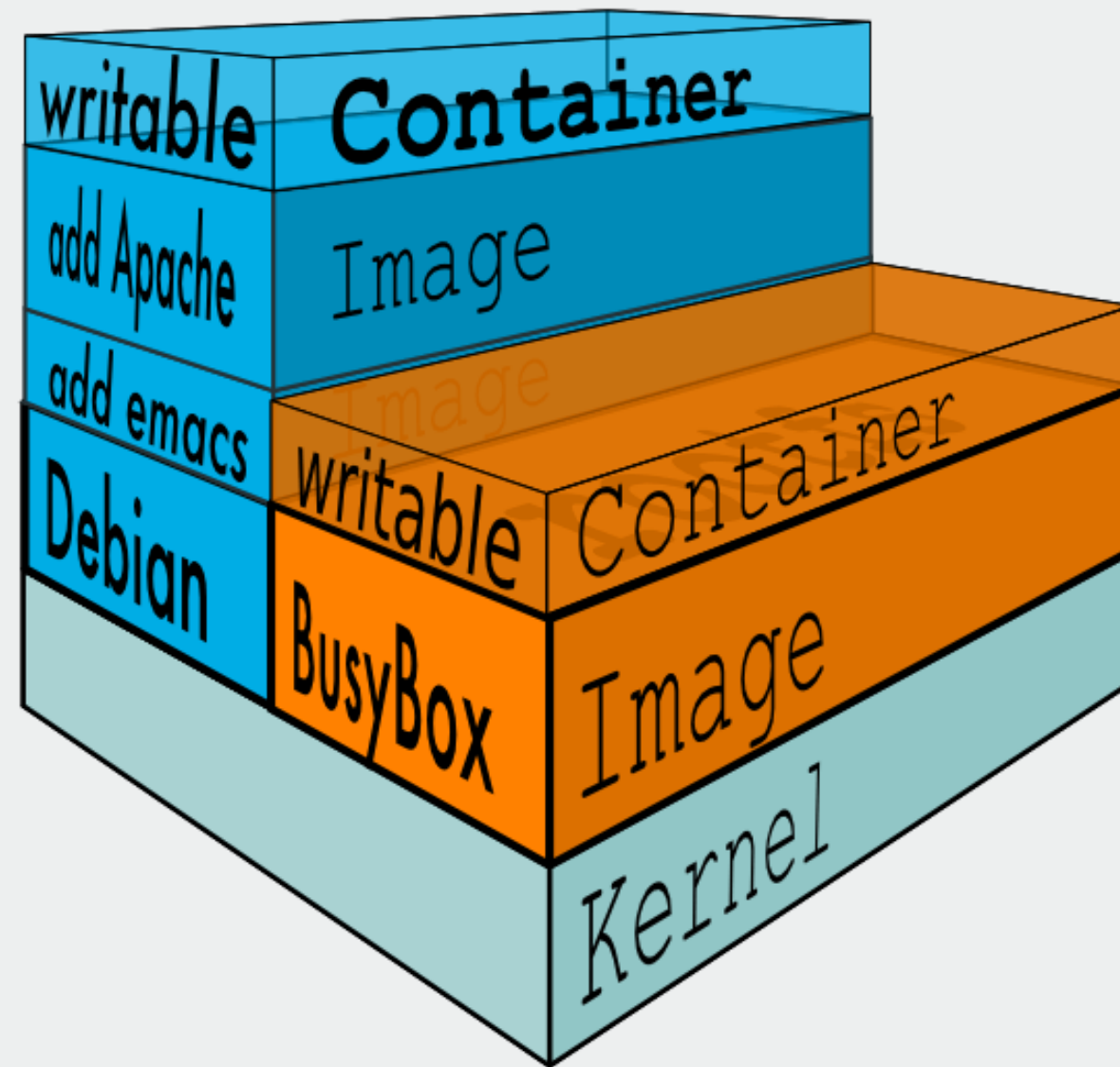
The Docker Platform



Containers and Images



Storage and Volumes



Building our own images

23 lines (14 sloc) | 673 Bytes

Raw

Blame

History

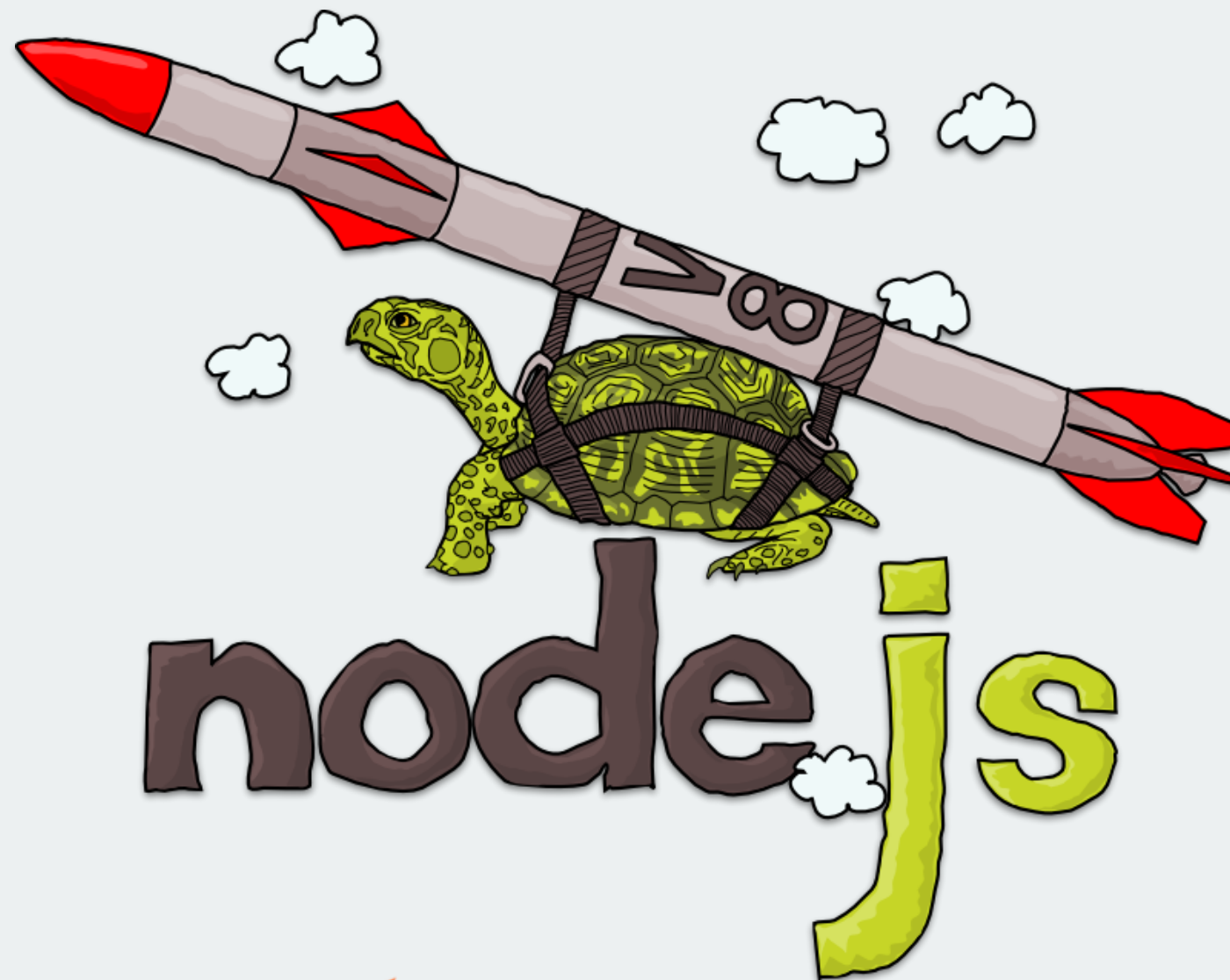


```
1 FROM debian:jessie
2
3 MAINTAINER NGINX Docker Maintainers "docker-maint@nginx.com"
4
5 RUN apt-key adv --keyserver hkp://pgp.mit.edu:80 --recv-keys 573BFD6B3D8FBC641079A6ABABF5BD827BD9BF62
6 RUN echo "deb http://nginx.org/packages/mainline/debian/ jessie nginx" >> /etc/apt/sources.list
7
8 ENV 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



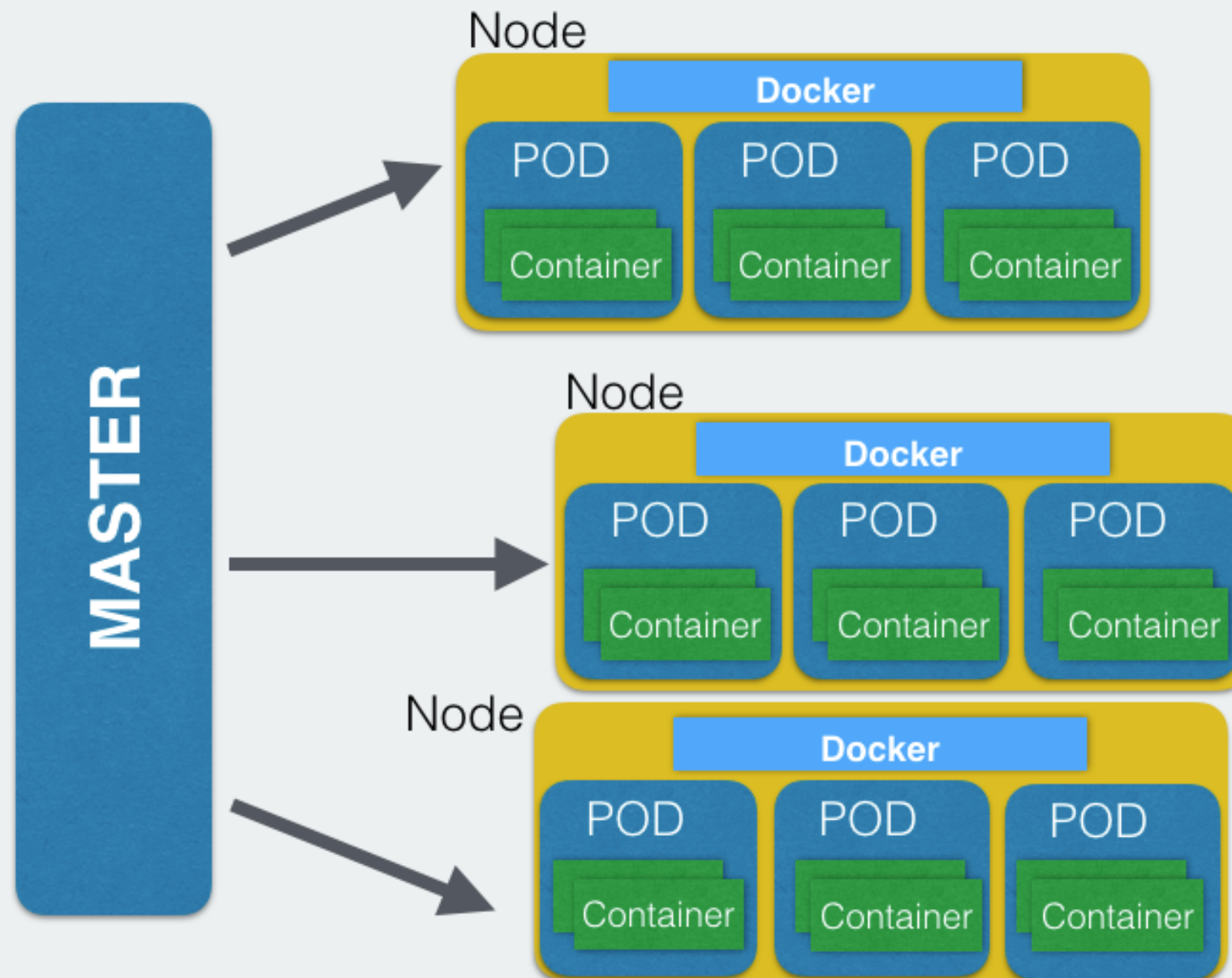
Hello



What is Kubernetes?



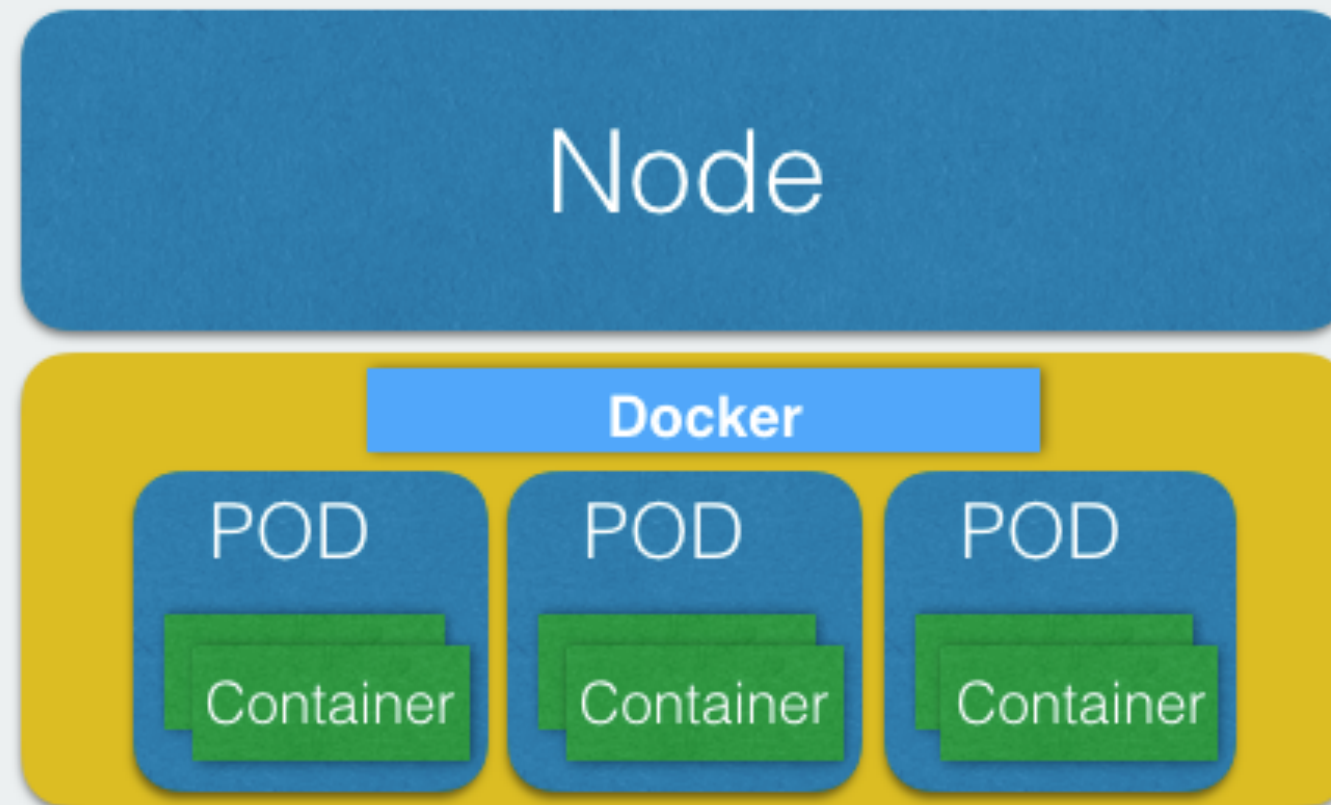
Why use it?



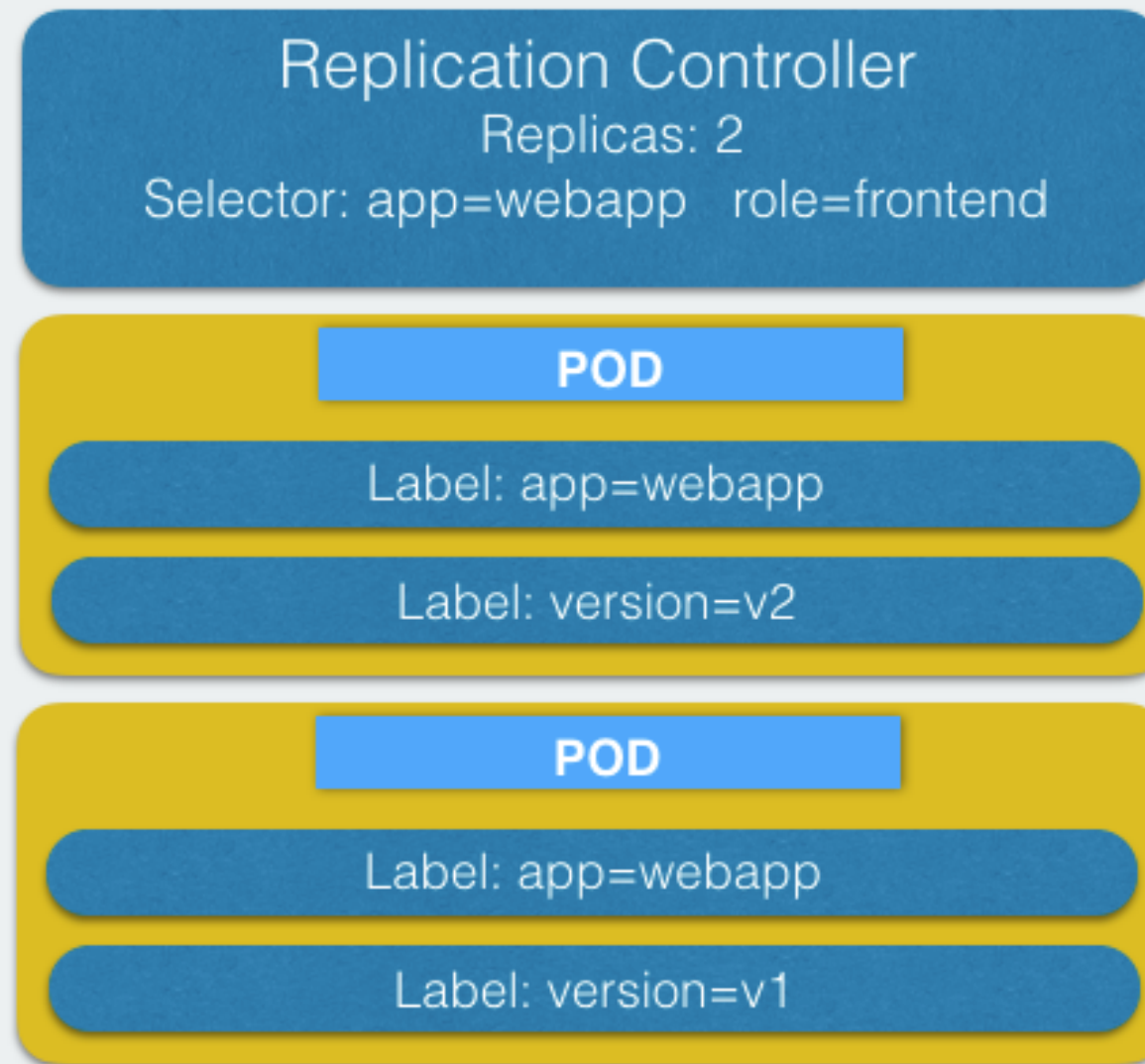
Kubernetes building blocks

Pods
RC
Services
Labels
Selectors

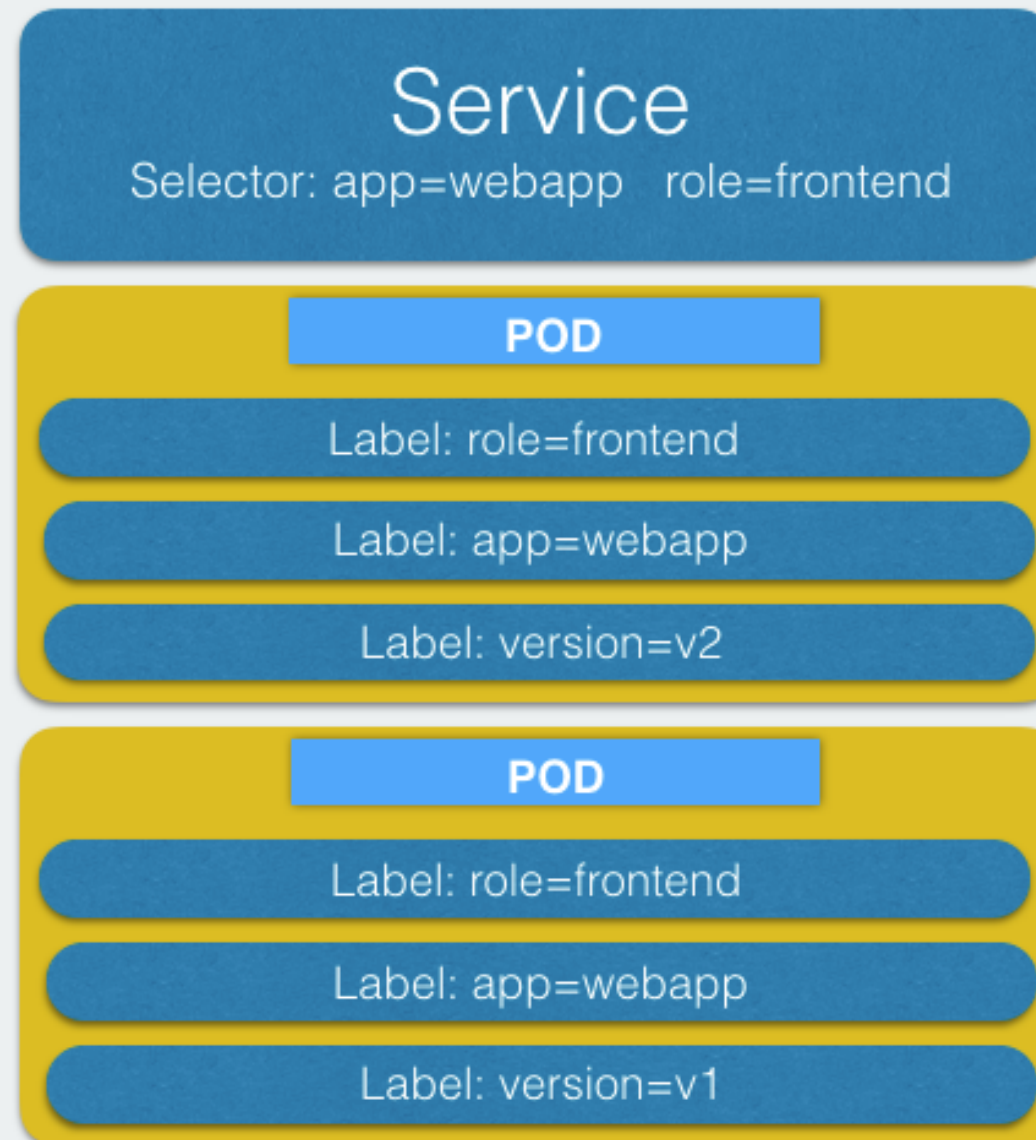
Pods



Replication Controllers



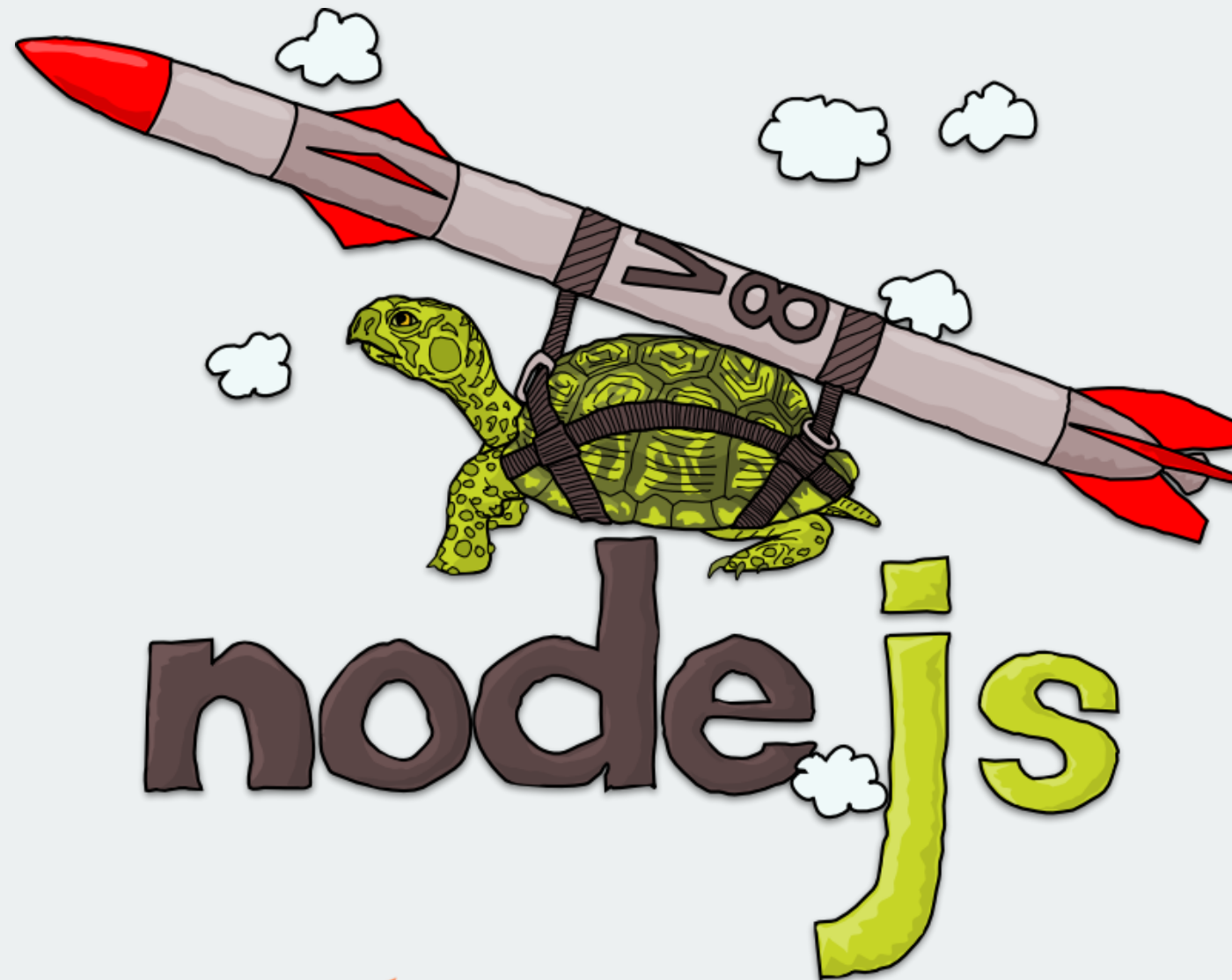
Services




ICN.Bg Apps



Hello



Scaling Up and Down



 Replication controllers

Edit Replication Controller

Replication Controller name


nginx

Replicas

1  

```
1 "spec": {  
2     "replicas": 1,  
3     "selector": {  
4         "name": "nginx"  
5     },  
}
```

Accessing our apps from the outside world

 **Services**

Create Service

Service name

nginx.plamer.icnapp.net

Ports
Add service ports

Protocol	Port	Name	
TCP	8080		Remove

Add

All Selectors

icnapp=Medium_Container
icnapp=Medium_Container
name=storage
icnapp=Medium_Container
name=storage1

Selected

name=nginx

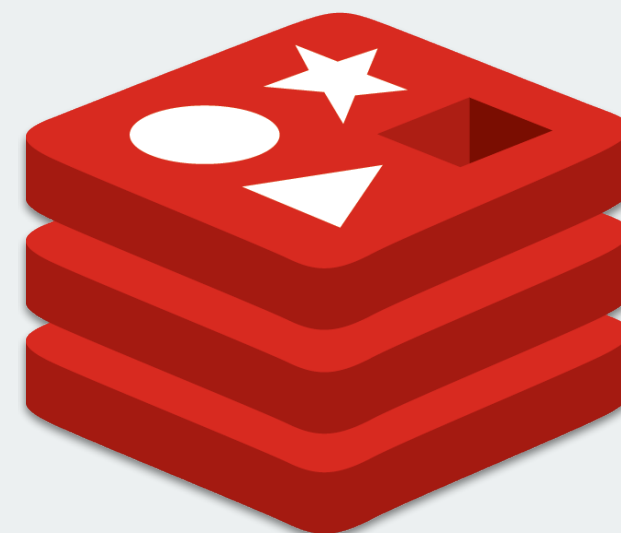
[Add >](#)
[< Remove](#)

Create

Migrating from local Docker to the cluster

Build
Tag
Push
Deploy via UI

php/redis



Questions?

