

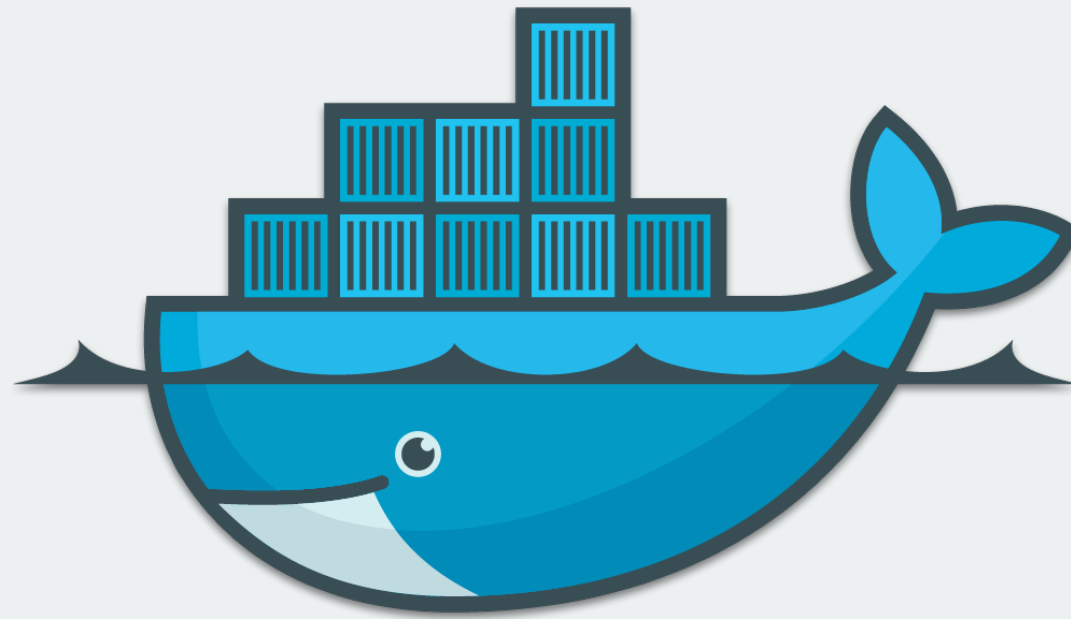
# Docker Workshop

Plamen Kalchev

# Resources

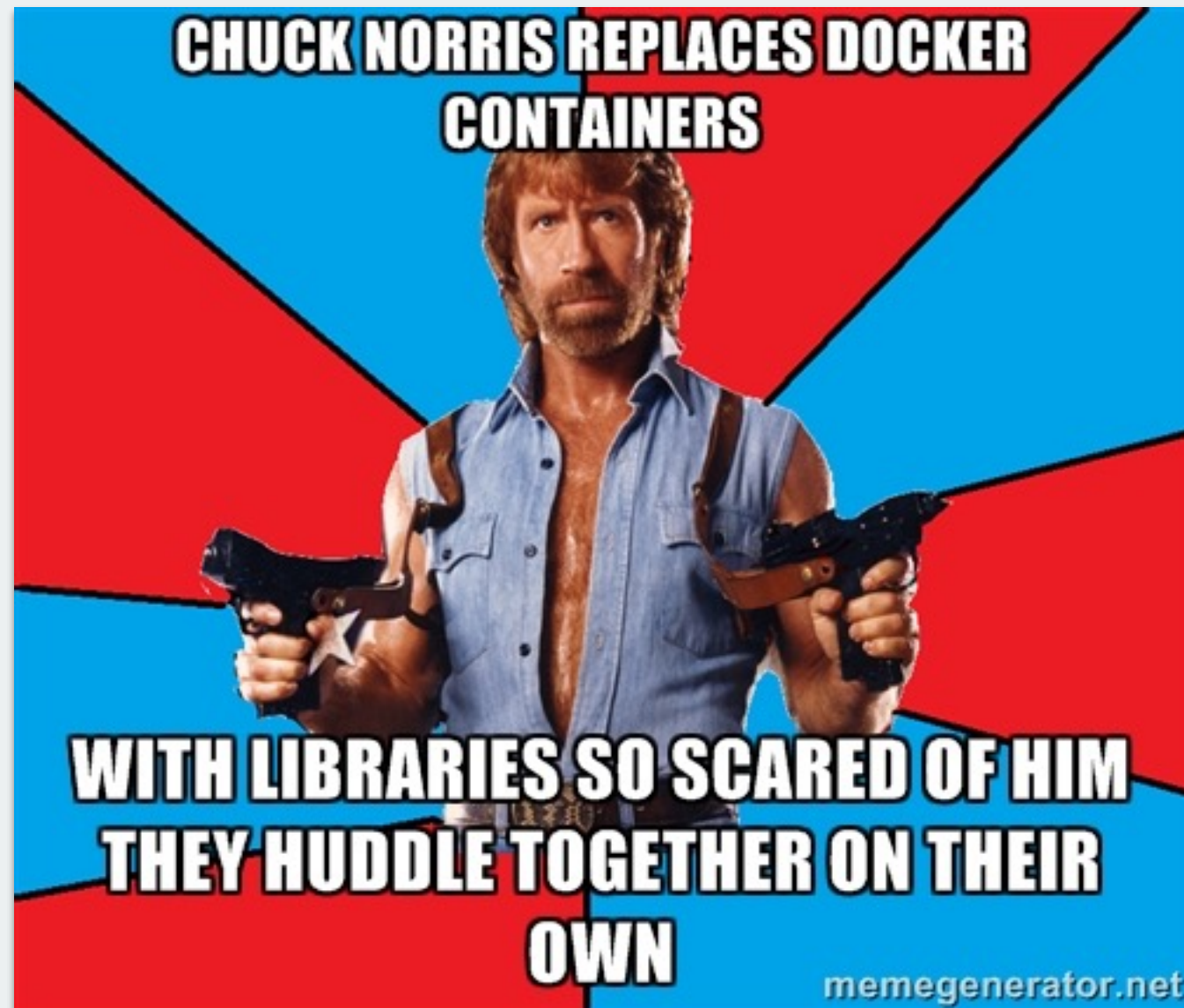
<https://github.com/icnbg/docker-workshop>

# What is Docker?

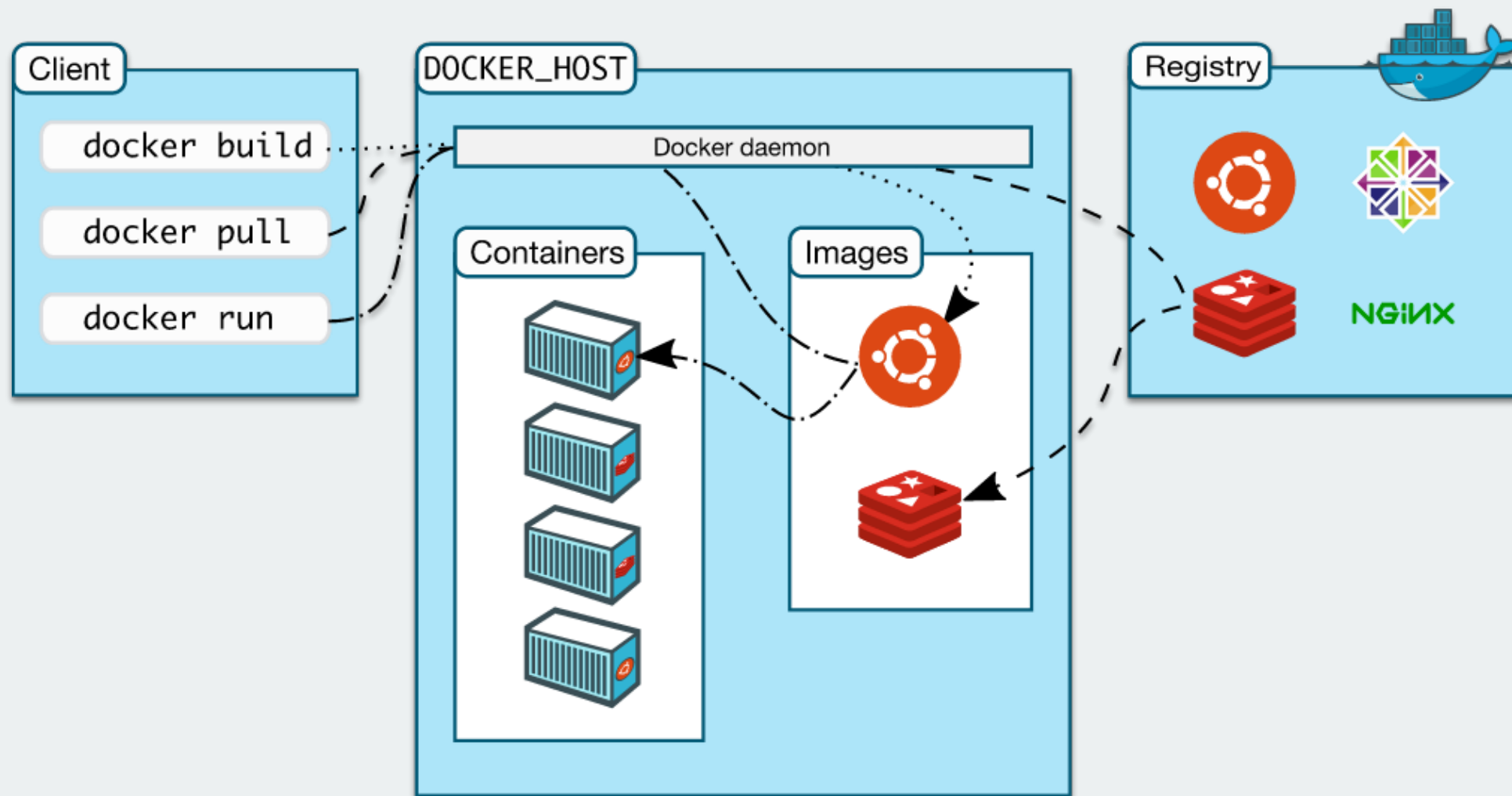


docker

# Why use it?



# The Docker Platform

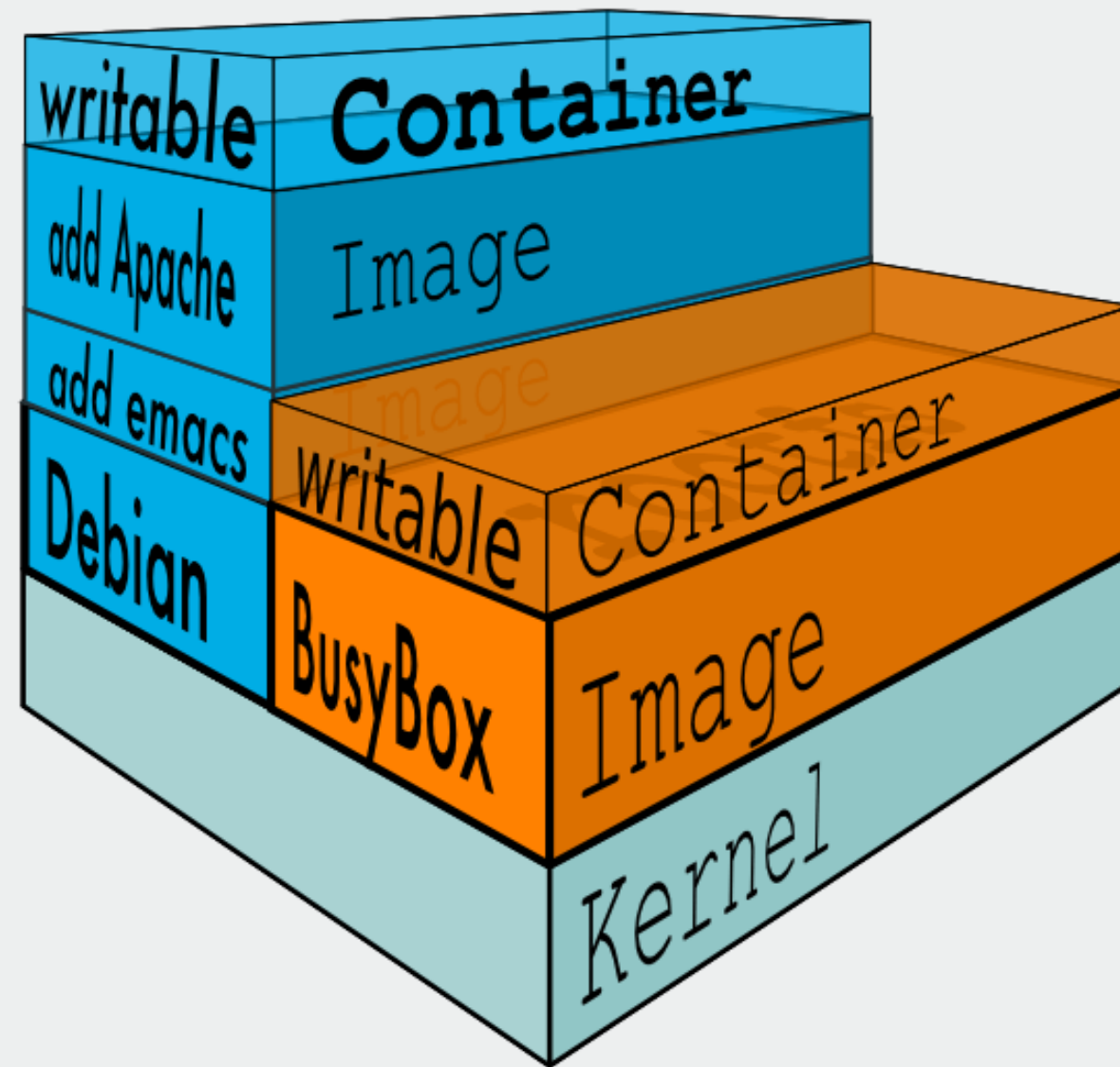




# Containers and Images



# Storage and Volumes



# Building our own images

23 lines (14 sloc) | 673 Bytes

Raw

Blame

History



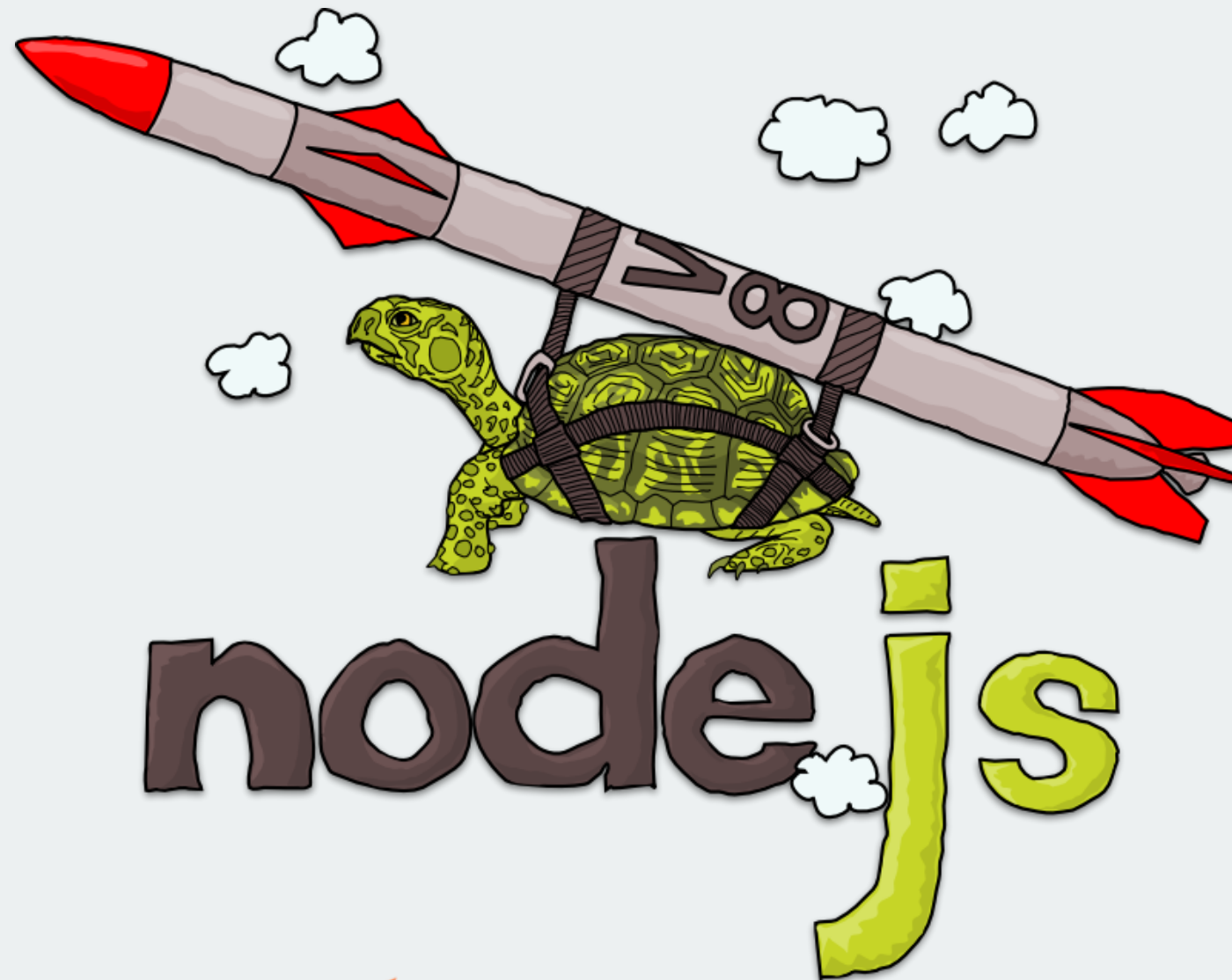
```
1 FROM debian:jessie
2
3 MAINTAINER NGINX Docker Maintainers "docker-maint@nginx.com"
4
5 RUN apt-key adv --keyserver hkp://pgp.mit.edu:80 --recv-keys 573BFD6B3D8FBC641079A6ABABF5BD827BD9BF62
6 RUN echo "deb http://nginx.org/packages/mainline/debian/ jessie nginx" >> /etc/apt/sources.list
7
8 ENV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



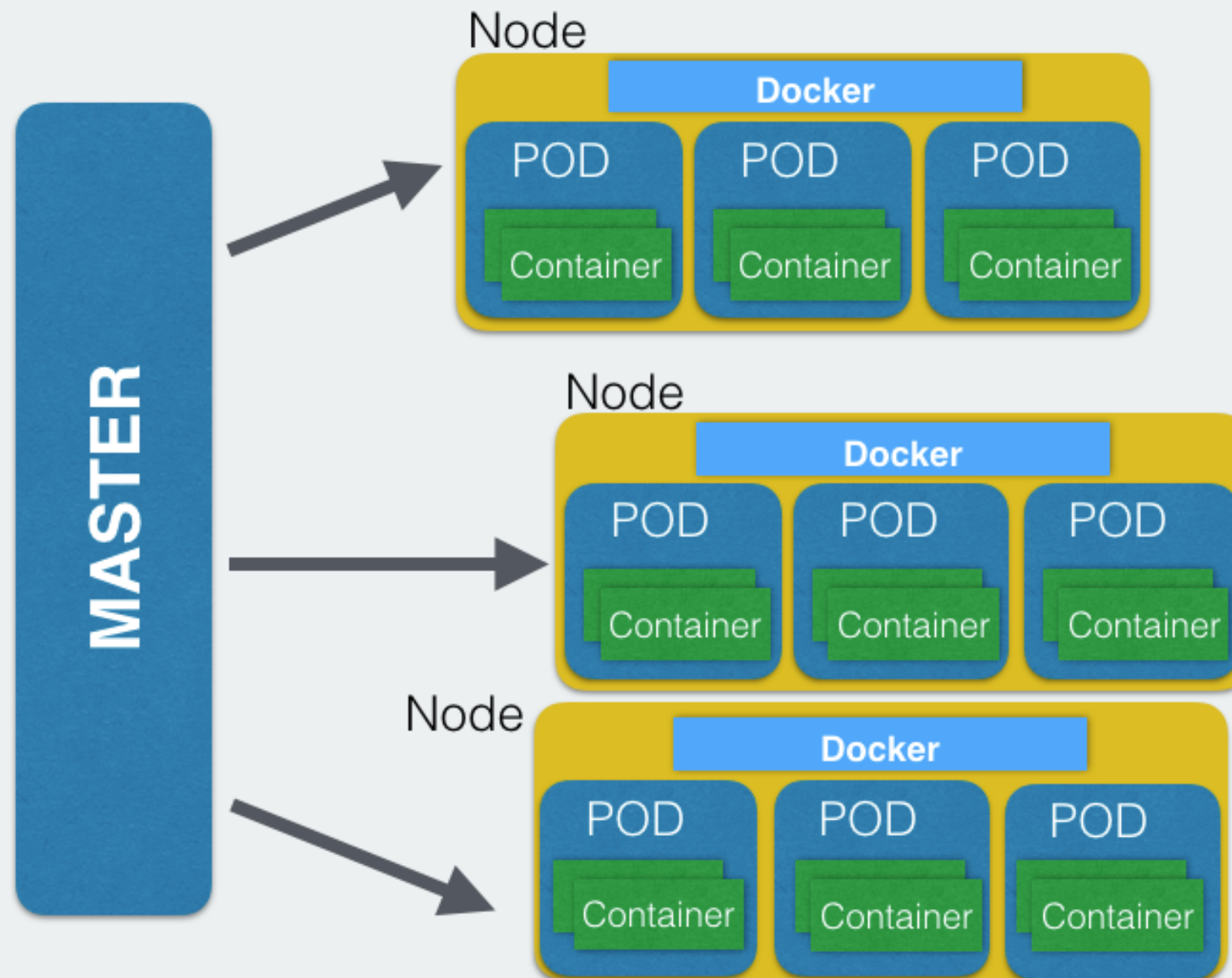
# Hello



# What is Kubernetes?



# Why use it?

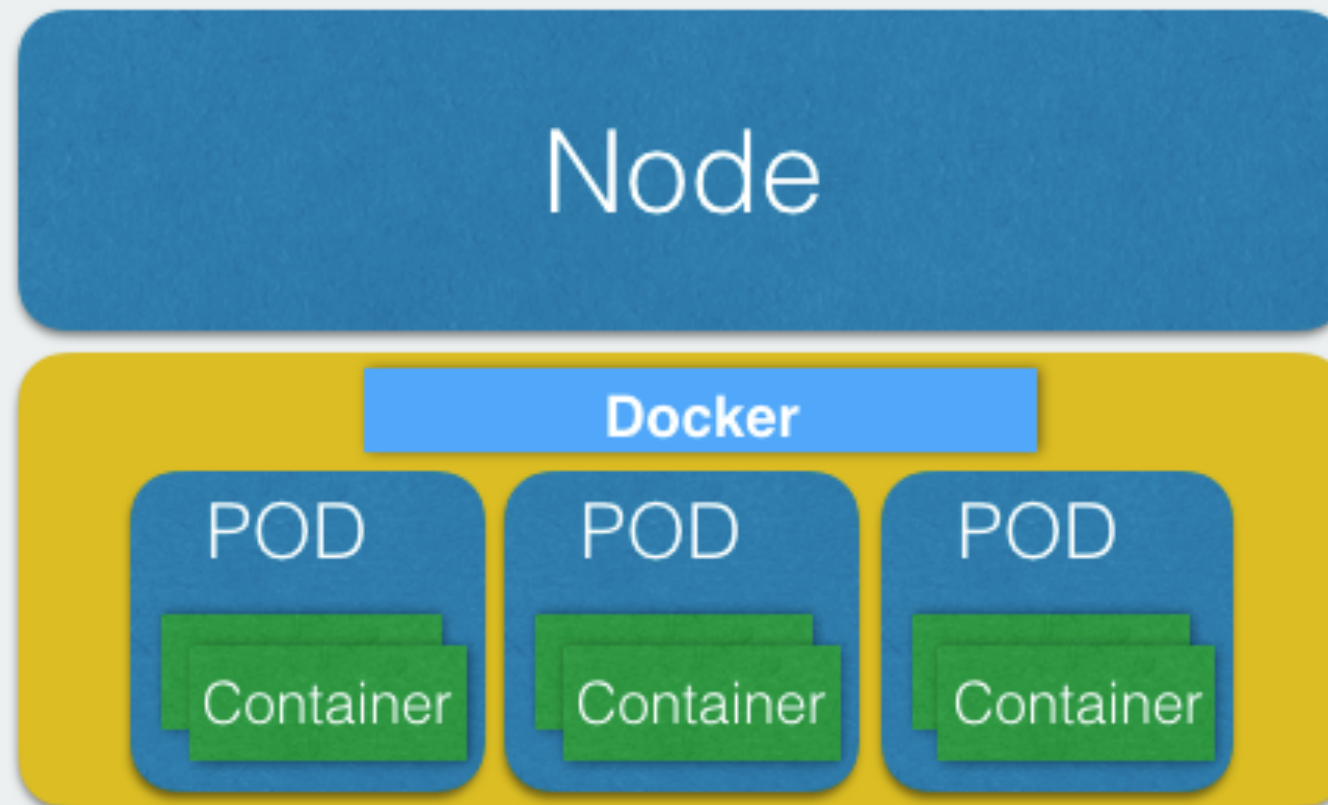


# Kubernetes building blocks

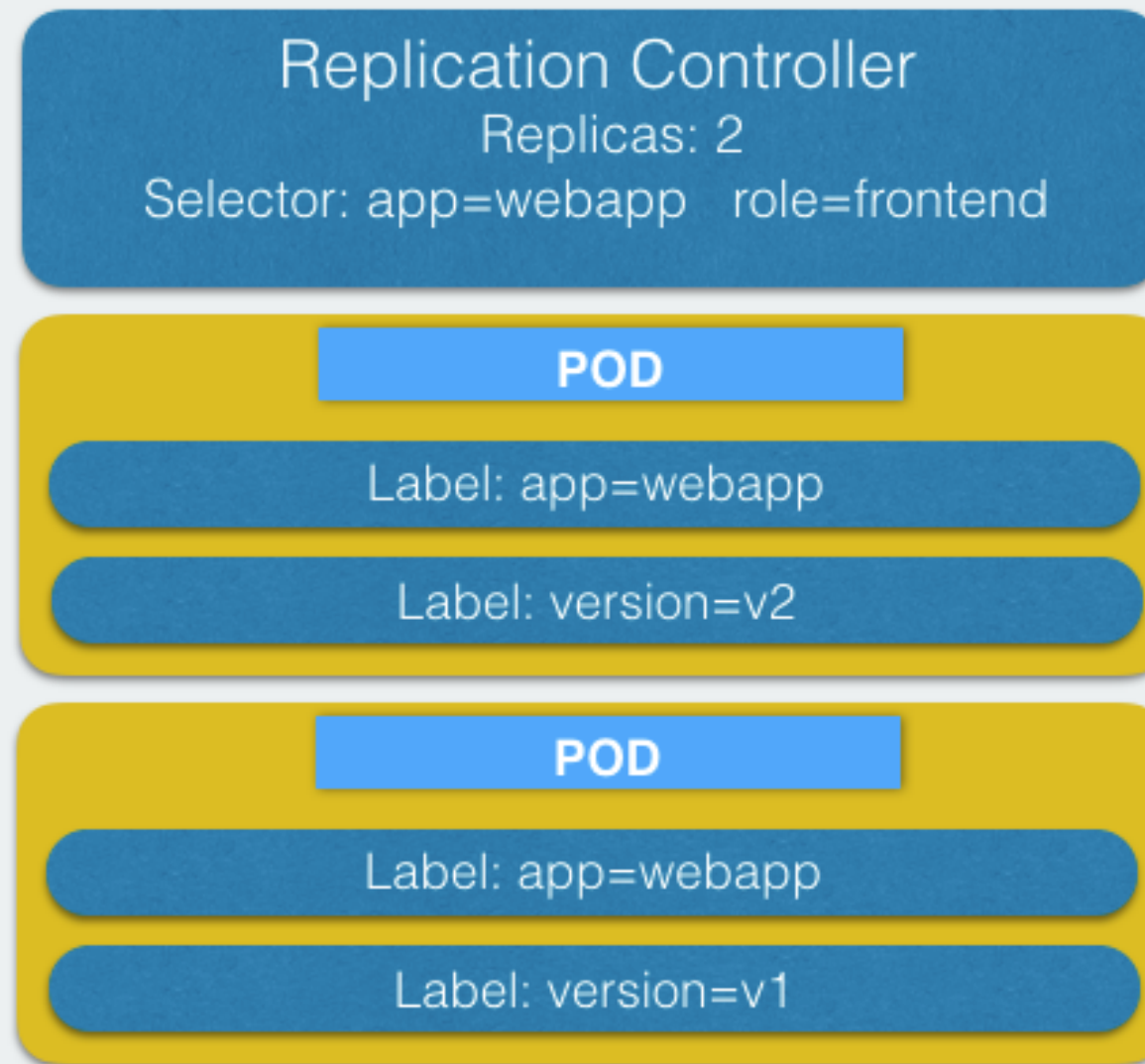
Pods  
RC  
Services  
Labels  
Selectors



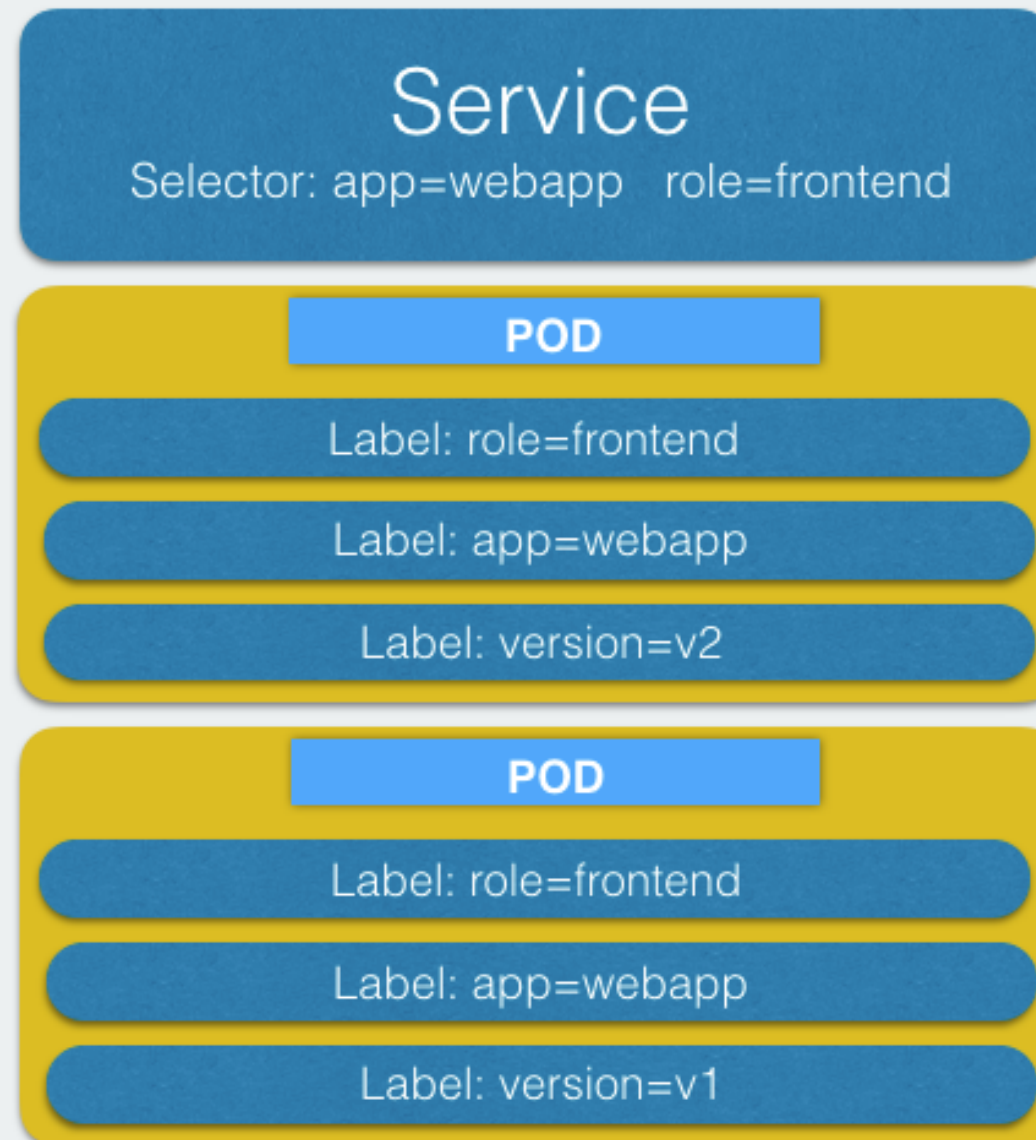
# Pods



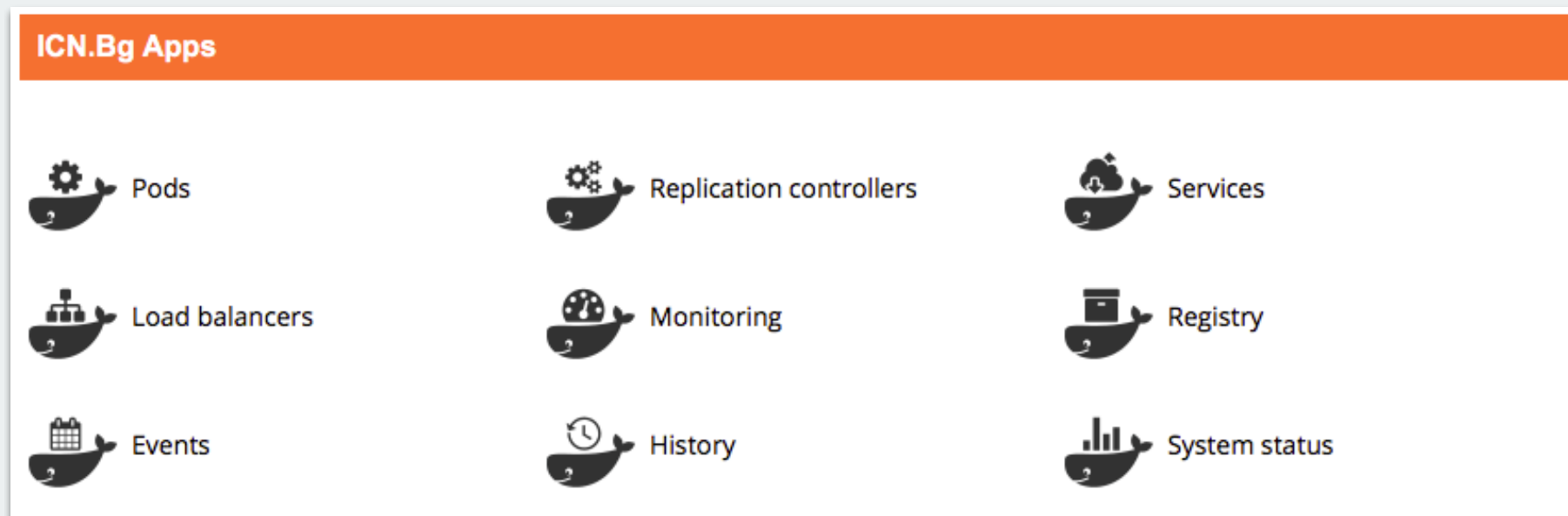
# Replication Controllers



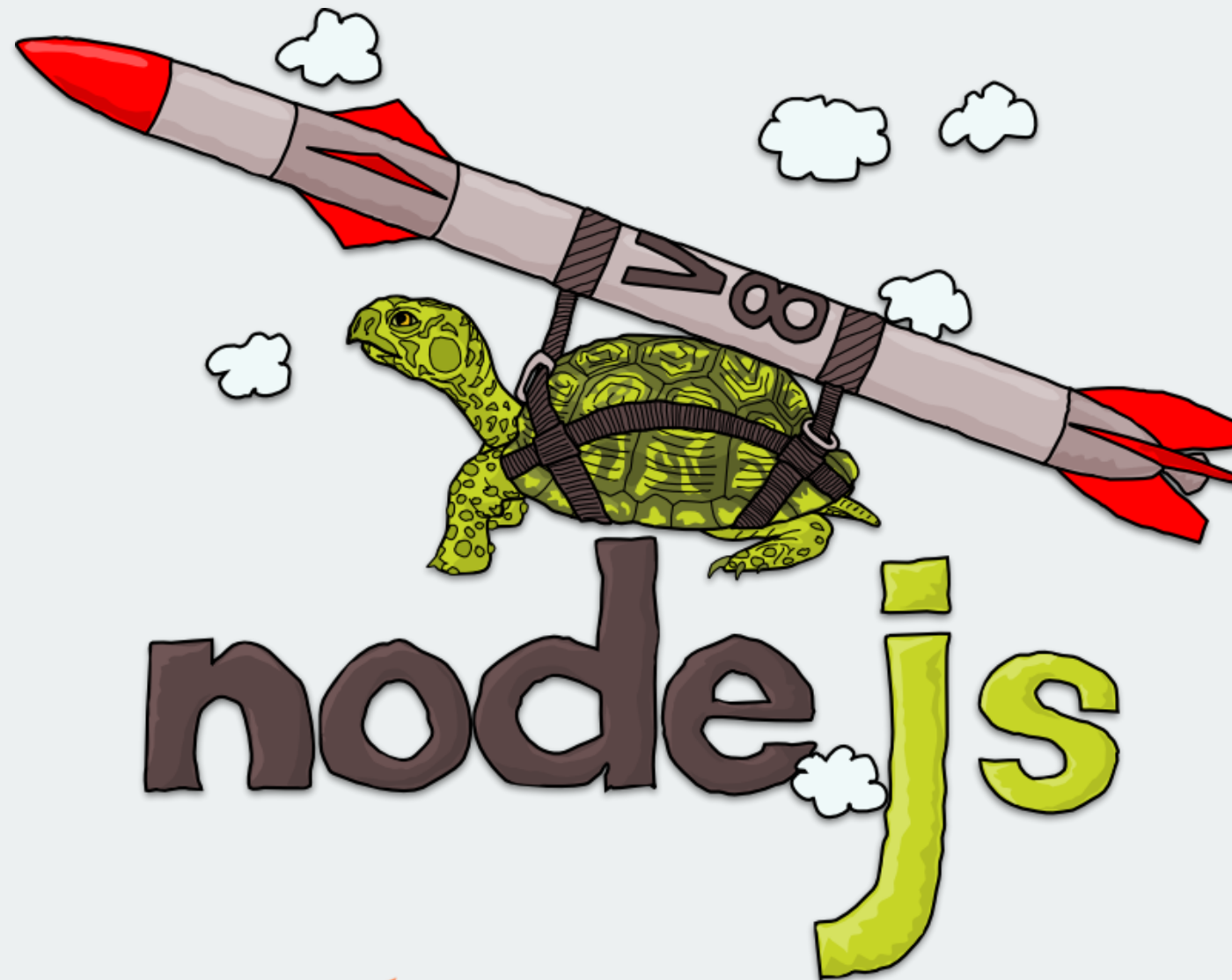
# Services



# 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		<a href="#">Remove</a>

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?

