

# Containerized Ruby

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***Why?***

containers => easy life

simplify environments  
establish standards  
eliminate tasks

***How?***

***What?***

**Isolate applications and run  
them in a known  
environment**

containers == virtual machines



containers != virtual machines

containers == processes

***Is it new?***

# Tooling around containers

***Docker***

# Container Platform

**Tools, services and  
practices** to help with  
*developing, shipping and  
running* applications using  
*containers*

portable packages + runtime



# Container Images

**application + dependencies**

**portable**

~~***Fiddling with dependencies***~~

**Application behaves the  
same way everywhere**

**simplify environments**

establish standards

eliminate tasks

*vim . /Dockerfile*

```
FROM ruby:2.5.1
```



```
FROM ruby:2.5.1
```

```
COPY . /usr/src/app
```

```
FROM ruby:2.5.1
```

```
COPY . /usr/src/app
```

```
RUN bundle install
```

**FROM** ruby:2.5.1

**COPY** . /usr/src/app

**RUN** bundle install

**CMD** /usr/src/app/bin/start

```
$ docker image build \  
-t jfahrer/myimage:v1 .
```

```
$ docker container run \  
jfahrer/myimage:v1
```

```
$ docker image push \  
jfahrer/myimage:v1
```

```
$ docker image pull \
jfahrer/myimage:v1
```

**Uniform way for *packaging,*  
*distributing, running*  
applications**



```
$ docker container run \  
  jfahrer/myimage:v1 \  
  ... \  
  rake db:migrate
```

simplify environments  
**establish standards**  
eliminate tasks

# *Learning Docker*

# Container Mindset

**Containers *might* not work  
the way **you** think**

containers == processes

Unintuitive

```
FROM ubuntu:18.04
```

```
RUN apt-get update
```

```
RUN apt-get install -y nginx
```



containers == processes

Patching the ContainerOS?

Releasing a new version of  
your application

simplify environments  
establish standards  
**eliminate tasks**

# Starting and stopping

Containers should be  
**stateless**

Containers should only have  
**one concern**

containers == processes



Sooooooo many containers...

Sooooooo many containers...  
get managed by **Docker**  
**Compose**

**But debugging...**

But debugging...  
**gets easier**

containers == processes

**Better tools for the job**

start in development

start simple

start slow

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[LearnDocker.online](http://LearnDocker.online)

[RailsWithDocker.com](http://RailsWithDocker.com)