

DOCKER FOR RUBY DEVS

# 01

THE PROBLEM

“It works on my machine!”

–Everyone

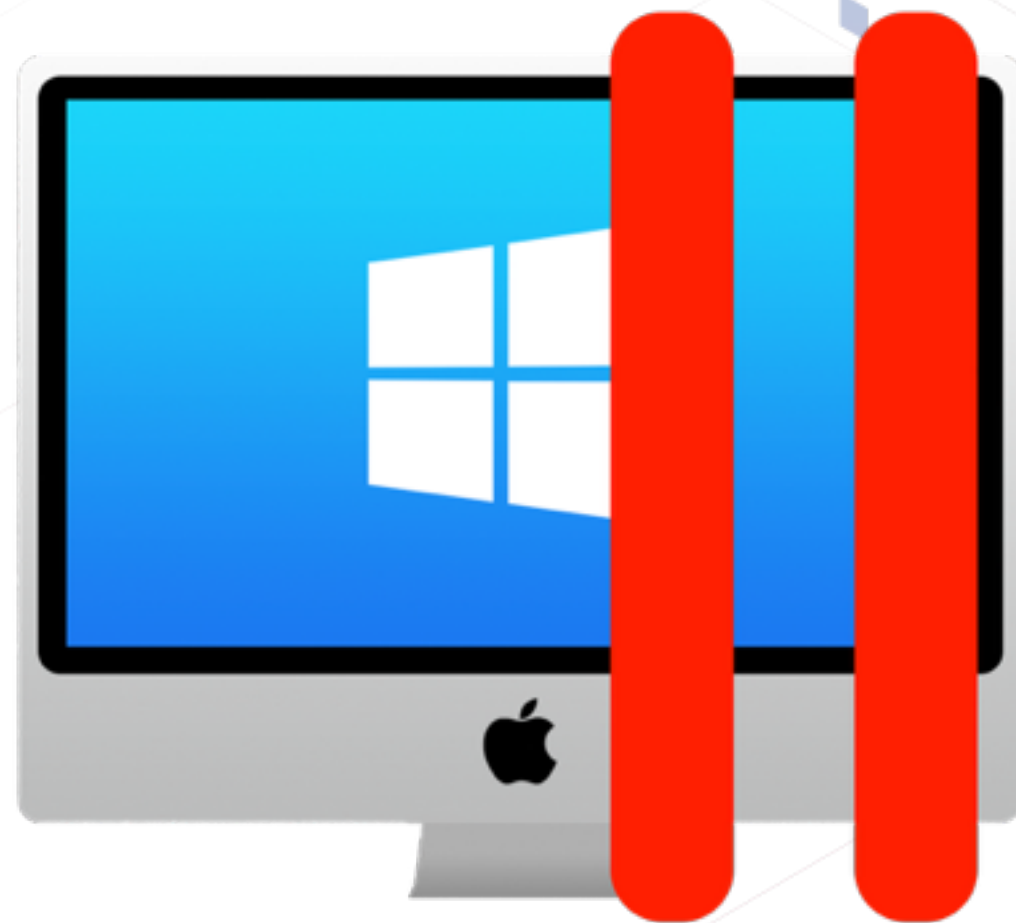
# THE PROBLEM

- Different libraries
- Libraries have different bugs on different OS
- Different versions of libraries
- Upgrading / downgrading breaks other libraries

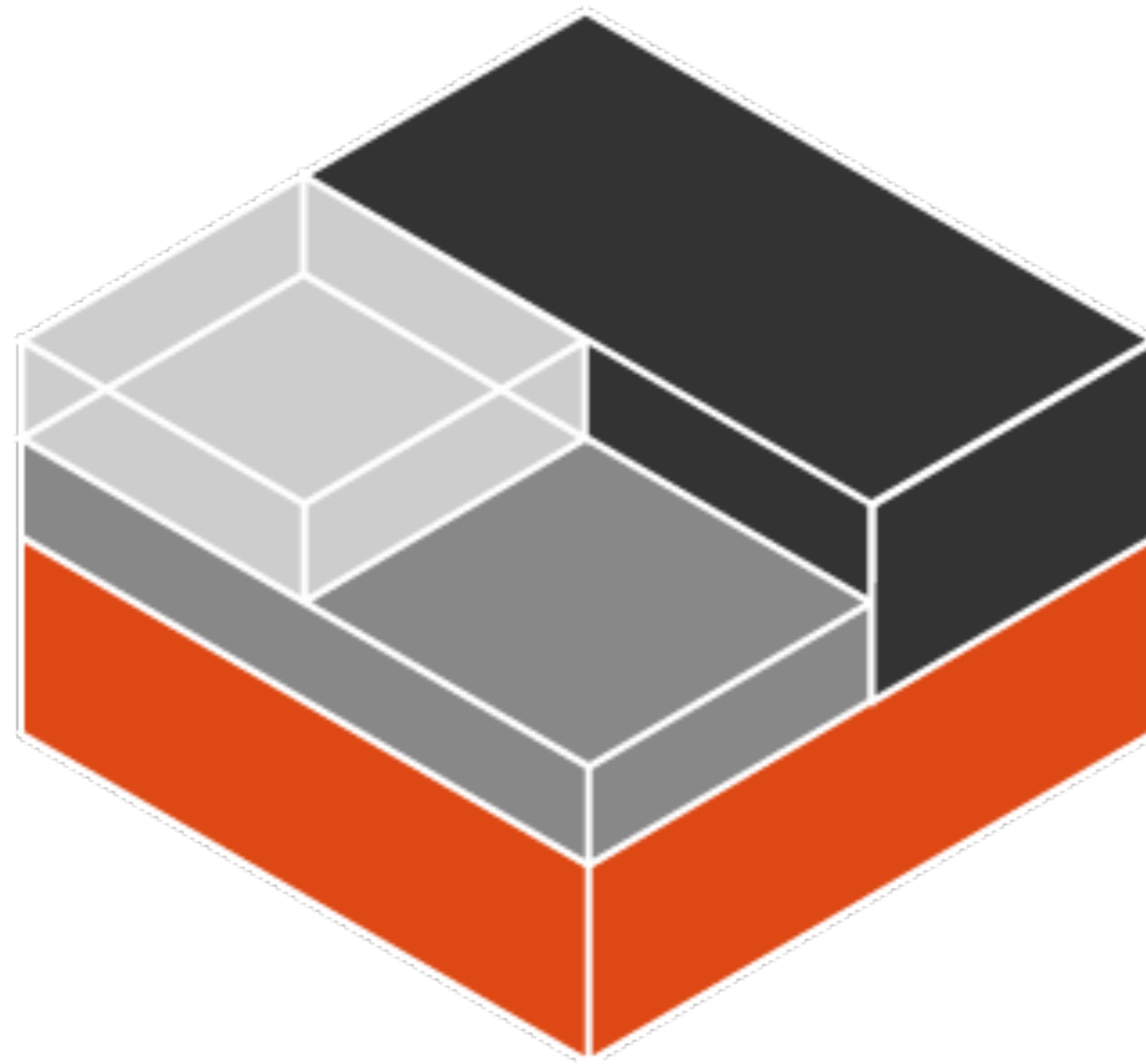
02

SOLUTION

# SOLUTION

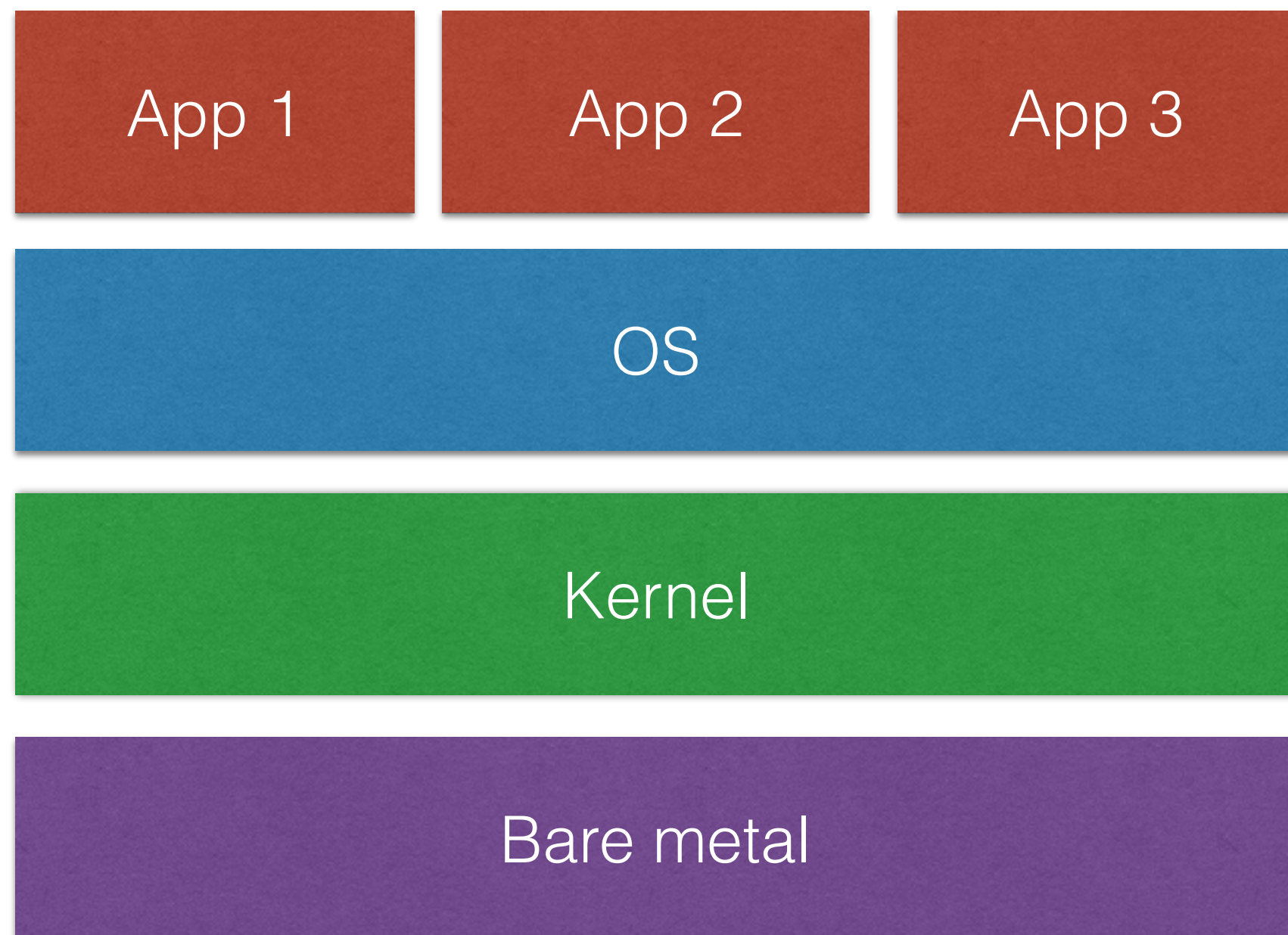


# SOLUTION

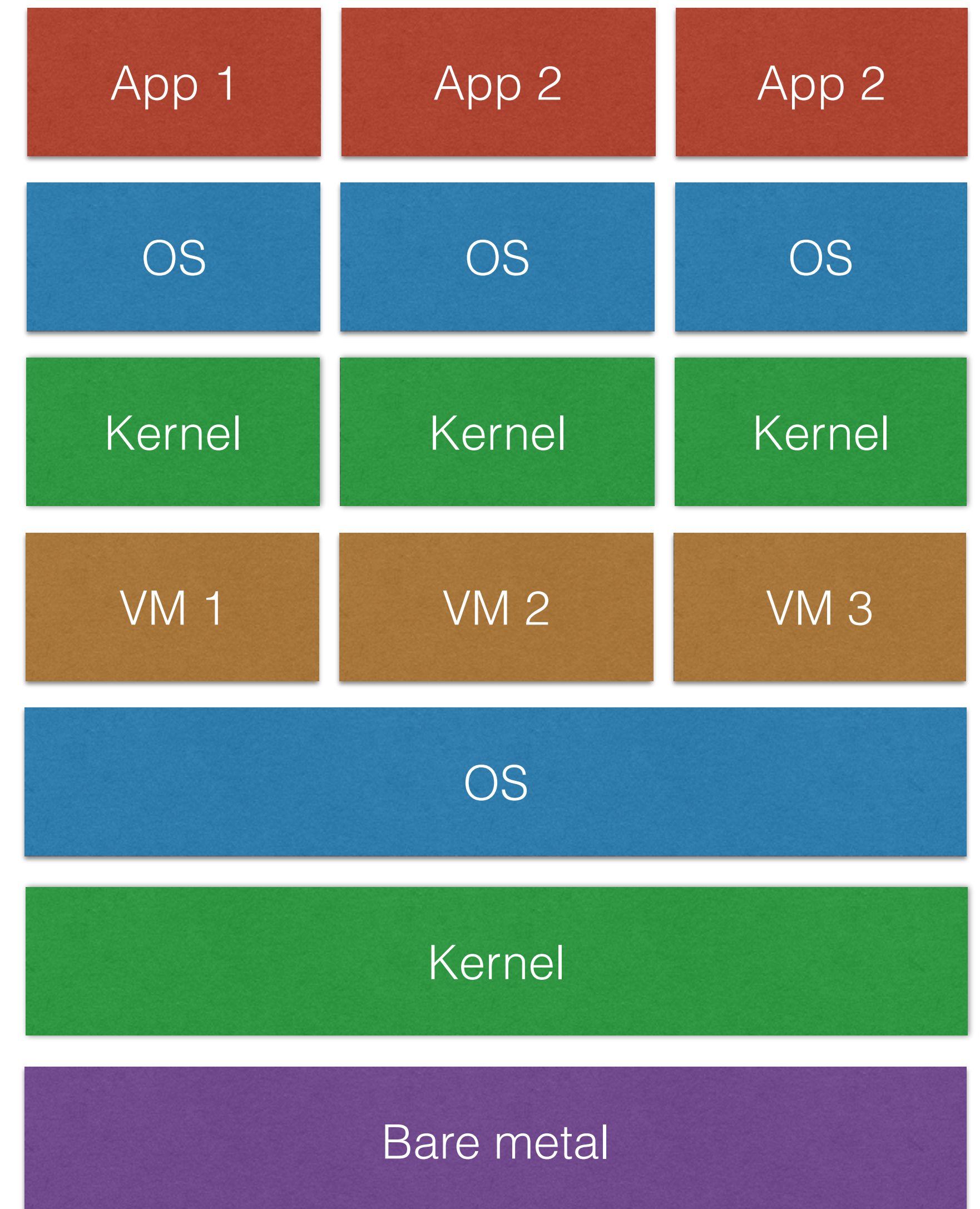


LXC





LXC STACK



VM STACK



OAS

DOCKER

# DOCKER

 Dockerfile

Raw

```
1 FROM rails:4.2.4
2 MAINTAINER Stanko Krtalic Rusendic <stanko.krtalic@gmail.com>
3 RUN mkdir -p /var/app
4 COPY Gemfile /var/app/Gemfile
5 WORKDIR /var/app
6 RUN bundle install
7 CMD rails s -b 0.0.0.0
```

```
$ cd local/project/path
$ docker build -t my_image_name .
$ docker run -v local/project/path:/var/app -p 3000:3000 my_image_name
```

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# DOCKER

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# DOCKER

## Rails image

Postgres-devel

ImageMagick

OpenSSL

Ruby image

Node.js image

Ubuntu image

## Ruby image

Build essentials

OpenSSL

Ruby





## Explore Official Repositories

 <b>busybox</b> official	447 STARS	59.9 M PULLS	<a href="#">➤</a> DETAILS
 <b>ubuntu</b> official	3.0 K STARS	38.4 M PULLS	<a href="#">➤</a> DETAILS
 <b>swarm</b> official	124 STARS	21.8 M PULLS	<a href="#">➤</a> DETAILS
 <b>nginx</b> official	2.0 K STARS	19.1 M PULLS	<a href="#">➤</a> DETAILS
 <b>redis</b> official	1.5 K STARS	16.9 M PULLS	<a href="#">➤</a> DETAILS
 <b>registry</b> official	559 STARS	16.8 M PULLS	<a href="#">➤</a> DETAILS
 <b>mysql</b> official	1.6 K STARS	11.4 M PULLS	<a href="#">➤</a> DETAILS
 <b>mongo</b> official	1.3 K STARS	7.2 M PULLS	<a href="#">➤</a> DETAILS

# DOCKER

15 lines (11 sloc) | 426 Bytes

Raw

Blame

History



```
1 FROM ubuntu
2 MAINTAINER Kimbro Staken
3
4 RUN apt-get install -y software-properties-common python
5 RUN add-apt-repository ppa:chris-lea/node.js
6 RUN echo "deb http://us.archive.ubuntu.com/ubuntu/ precise universe" >> /etc/apt/sources.list
7 RUN apt-get update
8 RUN apt-get install -y nodejs
9 #RUN apt-get install -y nodejs=0.6.12~dfsg1-1ubuntu1
10 RUN mkdir /var/www
11
12 ADD app.js /var/www/app.js
13
14 CMD ["/usr/bin/node", "/var/www/app.js"]
```

# DOCKER

 docker-compose.yml

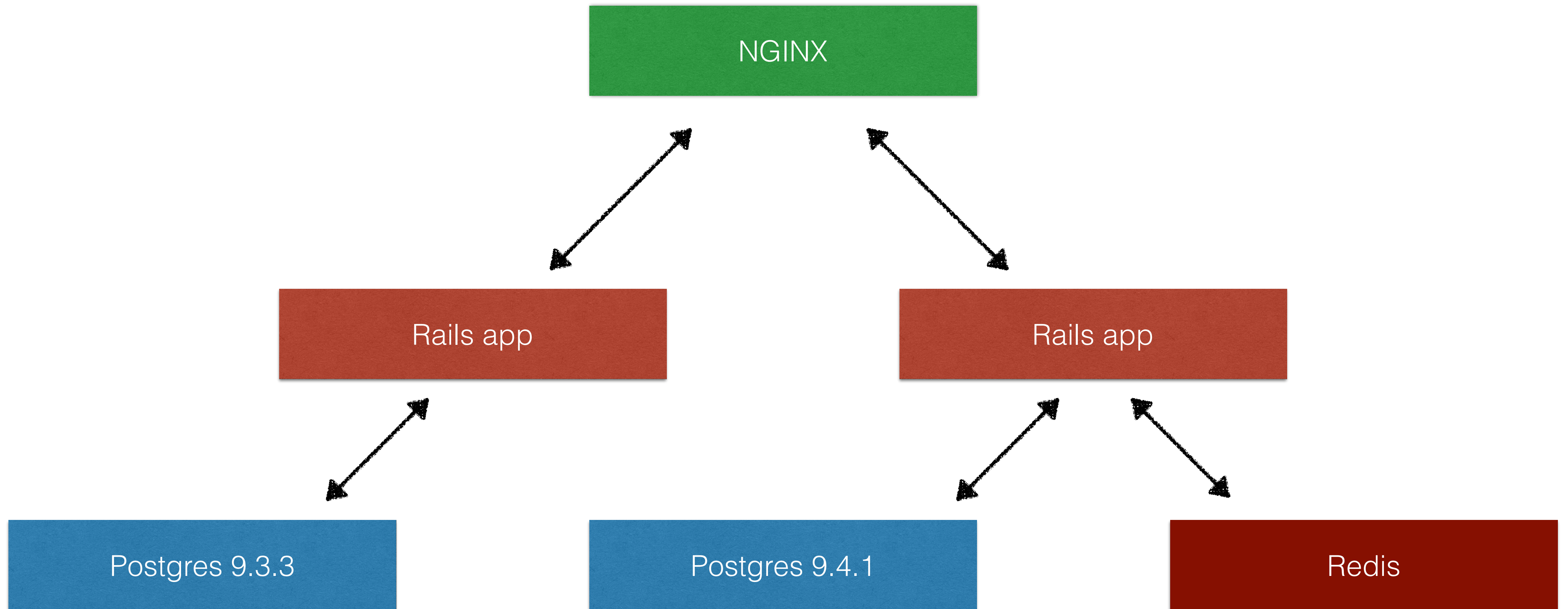
Raw

```
1 db:
2   image: postgres
3
4 web:
5   build: .
6   ports:
7     - 3000:3000
8   volumes:
9     - 'local/project/path:/var/app'
10  command: rails s -b '0.0.0.0'
11  links:
12    - db
```

```
$ docker-compose up
```

```
$ docker-compose run bundle exec rake db:create db:migrate
```

# DOCKER



DEPLOYMENT



# ADVANTAGES

- 100% identical configuration
- Apps are better optimised
- Horizontal scaling
- Git-like filesystem
- Portability

05  
CONCLUSION

# CAVEATS

- The kernel is shared
- HDD over RAM
- Dependant on external service ([hub.docekr.com](https://hub.docekr.com))

# THANKS FOR LISTENING

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<https://github.com/Stankec>