

Dancing with Docker

Natalia Strelkova
flore@ya.ru

Why

- Widespread and growing
- Open and free
- Lightweight
- Easy to get started with
- Gives you more freedom
- On any major OS
- May popularize Perl more
- Internal or external usage

Step One

Install Docker

<http://docs.docker.com/>



Mac

Download, get an installation dialogue

Use Docker Machine in console:

```
>> docker-machine ls -a
```

```
>> docker-machine status default
```

```
>> docker-machine start default # or restart, or stop
```

```
>> docker-machine end default
```

```
>> eval "$(docker-machine env default)"
```

```
>> docker ps -a
```

Unix/Linux

If curl is missing, install it:

```
>> sudo apt-get install curl # or however your system needs
```

```
>> curl -sSL https://get.docker.com/ | sh
```

OR:

```
>> wget -qO - https://get.docker.com/ | sh
```

```
>> sudo service docker start
```

you do not always need that, but on CentOS - yes

```
>> sudo docker run hello-world
```

Step Two: Prepare your files

Versioning system or however you store them

Step Three: Create your container

```
>> cat docker-playground/Dockerfile
```

```
FROM perl:latest
```

```
MAINTAINER Natalia Strelkova flore@ya.ru
```

```
RUN curl -L http://cpanmin.us | perl - Dancer2
```

```
RUN cpanm Starman
```

```
RUN no_cache=2015-09-01 git clone https://github.com/skalolazka/dancer-playground.git
```

```
EXPOSE 5000
```

```
WORKDIR dancer-playground/Flore-DancerPlayground/
```

```
CMD starman --port 5000 bin/app.psgi
```

Step Four: Build it, run it

```
>> docker build -t flore/docker-playground .
```

dot is for the directory where the Dockerfile is, -t for name

```
>> docker run --name=hooray -it --rm -p 5000:5000 flore/docker-playground
```

You can use the “-d” (detached) flag to run it in background.

-it - for using the tty (console)

--rm - remove container after it exits (not with -d)

-p - port binding

Step Five: Test it

>> docker env default

Choose DOCKER_HOST or

>> docker inspect default

Driver - IPAddress

Go to this address in your browser

Get the Dancer page

Testing and Development: Volumes

```
>> echo 'wow' > /home/flore/data/test
```

```
>> docker run --name volumes -v /home/flore/data:/data -it perl bash
```

```
>>>> ls /data
```

```
test
```

```
>>>> echo 'changed' > /data/test
```

```
>> cat /home/flore/data/test
```

```
changed
```

```
>> echo 'another side' > /home/flore/data/test
```

```
>>>> cat /data/test
```

```
another side
```

ENJOY!