Do it right with Docker

Shipping Applications the Traditional Way

Shipping Applications with Docker

Installation

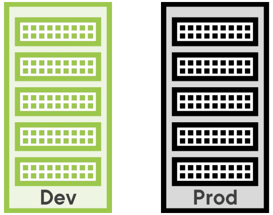
Windows only instruction cause everything else just works

- Install WSL: https://docs.microsoft.com/en-us/windows/wsl/install
- Install Linux kernel: Updates:https://docs.microsoft.com/en-us/windows/wsl/install-manual#step-4---download-the-linux-kernel-update-package
- Download and Install Docker: https://docs.docker.com/desktop/windows/install/

The Cases for Docker

Faster Developer Onboarding

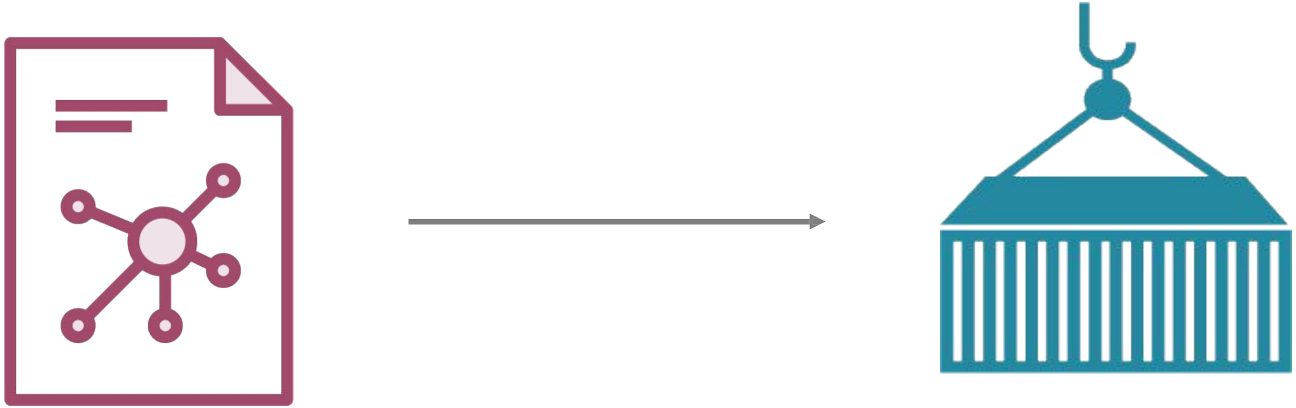
No App Conflict



Environment Predictability

Faster Deployment

Only Two Steps to Deploy



Docker Image

Docker Container

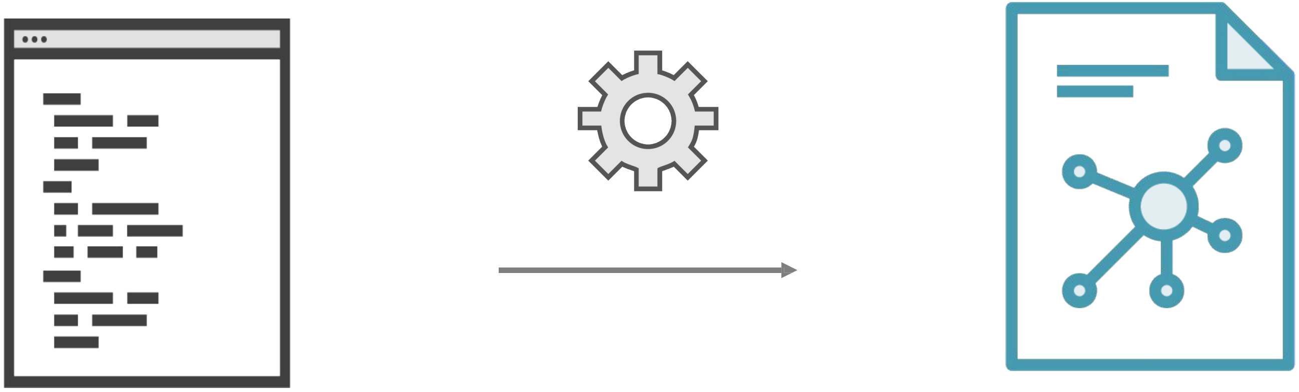
Let’s Build a Docker App

Dockerfile Instructions

```
FROM     node:latest
WORKDIR  /app
COPY     package.json .
RUN      npm install
COPY     . .

CMD      ["npm", "start"]
```

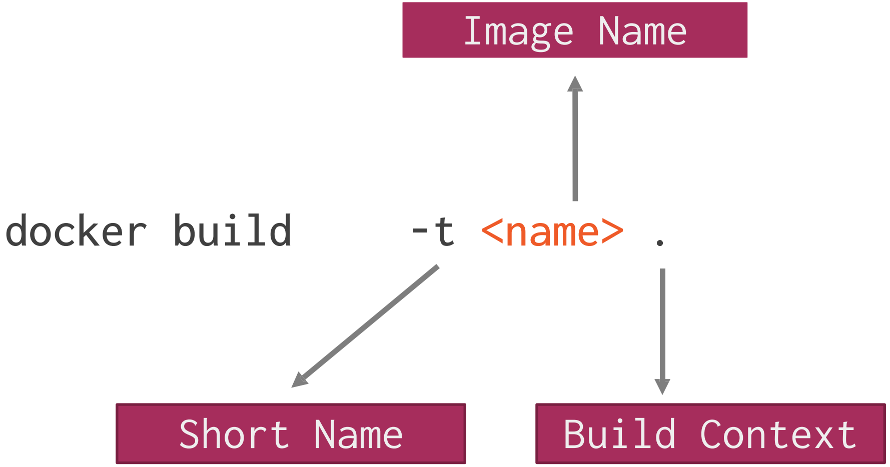
Dockerfile And Images



Dockerfile

Docker Image

Building Your App Image

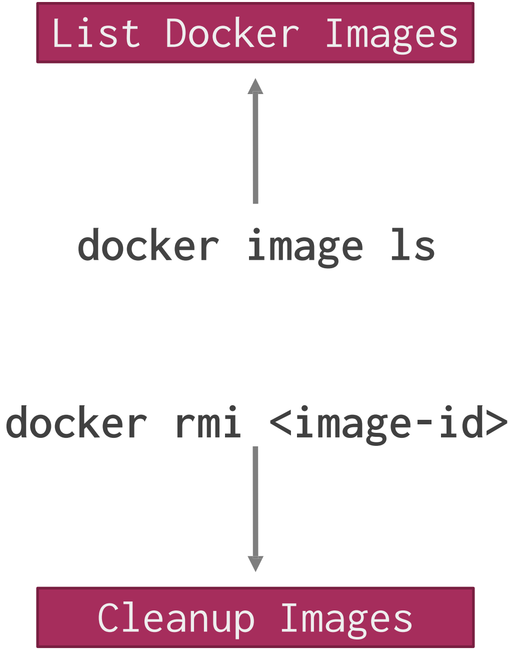


```
docker build     -t <name> .
docker build -t nodeapp .
```

Using Registry Name, Image Name, and Tag

```
docker  build  -t <registry>/<name>:<tag> .
docker build -t registry.newroztech.com/nodeapp:1.0 .
```

Docker Image Commands



List Docker Images

```
docker image ls
```

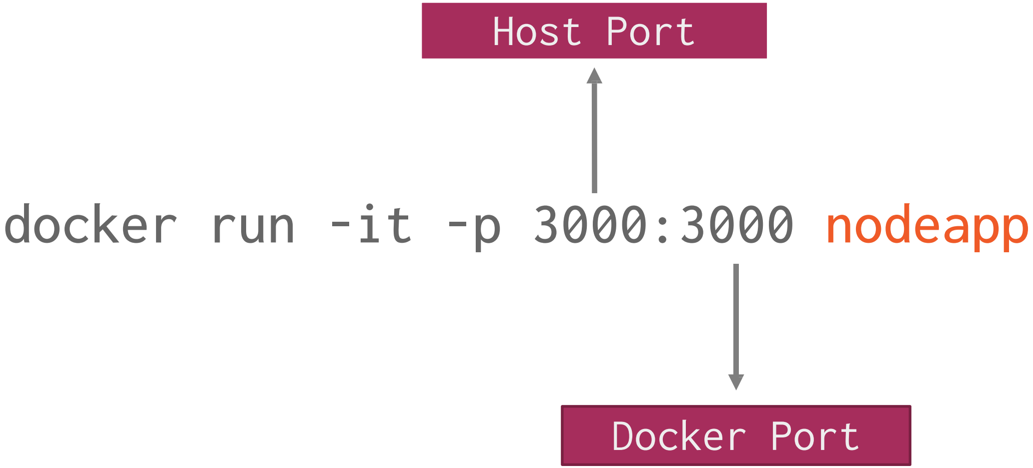
```
docker rmi <image-id>
```

Cleanup Images

Upload Your Image

```
docker push registry.newroztech.com/nodeapp:1.0
```

Deploy to Dev



Host Port

```
docker run -it -p 3000:3000 nodeapp
```

Docker Port

Up Next

Objective for Next Session:

Build production grade secure applications in our local machines

- ➔ Stack based Dockerfile
- ➔ Intro to docker-compose

… and live happily ever after