



Virtual Learning Labs Using Docker

Nate Aune & Brian Dant

CEO & Software Engineer,
Appsembler

dockercon 16

Agenda

1. Story
2. Problem
3. Solution

The Story

How Wharf Came to Be

Requirements

- Configurable
- Zero friction
- Disposable
- Transparent
- Scalable
- Replicable

Requirement 1: Configurable

Requirement 2: Zero Friction

Requirement 3: Disposable

Requirement 4: Transparent

Requirement 5: Scalable

Requirement 6: Replicable

Solution

- Django + React.js
- Docker
- Consul
- Docker Swarm
- Hipache

Tracking a Request

Admin User



Admin User



Student



Student



Request Diagram



Django + React.js

Docker

Docker Swarm

Consul (and Hipache)

Docker

Final Recap

Q & A



Thank you!





Body Slide

Slide subtitle if needed

The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog.

- **Bulleted list one**
- **List item two**
- **And item number three**

Alt Background Body Slide

Slide subtitle if needed

The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog. The quick brown fox jumps over the lazy dog.

- **Bulleled list one**
- **List item two**
- **And item number three**

Demo Slide

```
~/src/docker/expressApp$ docker build -t chrisdias/  
expressapp  
Sending build context to Docker daemon 72.18mb  
Step 0 : FROM node:latest  
--> 8e20baae42c8  
Step 1: COPY . /src  
--> 8e20baae42c8  
Removing intermediate container afdcd49c779  
Step 0 : FROM node:latest  
--> 8e20baae42c8  
Step 1: COPY . /src
```

“Quote Slide!”

— Moby

