### **Continuous Delivery of Etl**

from git to carte in a (couple off) sec(s)

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**FOSS** first

Build Docker based, Mesos orchestrated, AWS supported infra to accelarate Pentaho based data products and Ruby on Rails frontend @ data centric startup

#### **Outline**

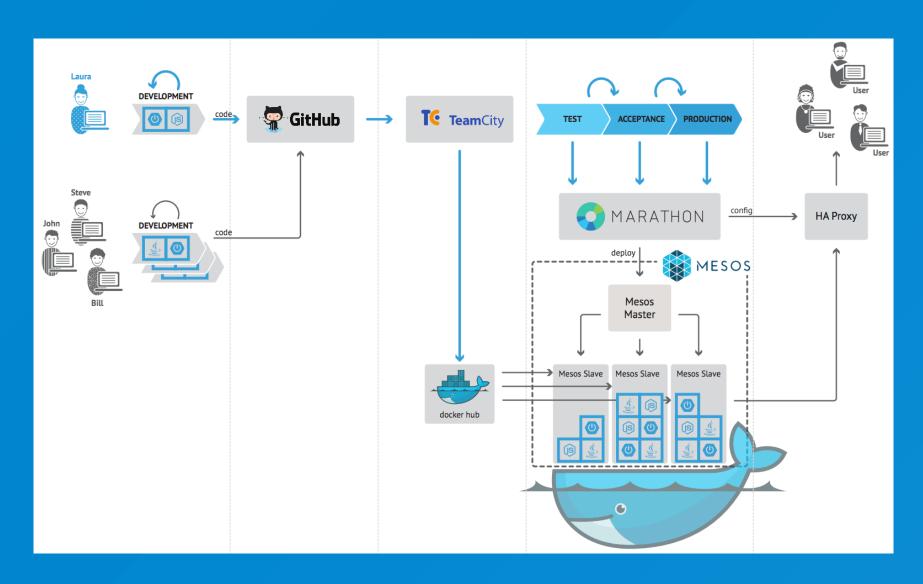
- Define Continuous Delivery
- Components at play
- Components detailed
- All hail to the demo gods
- Fin

### **Define Continuous Delivery**

"Continuous delivery (CD) is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time. It aims at **building**, *testing*, and **releasing** software faster and more frequently.

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### **Define Continuous Delivery**



### Components at play

- github sourcecode
- teamcity (CI, CD) testing building
- docker registry docker images
- marathon, chronos orchestrators
- mesos task excecutor
- proxy expose

### Components detailed: github

#### git repository with docker stuff

- (base) docker containers definitions
- our pdi / carte specific modifications
  - libs
  - plugins
  - carte repo definitions
- slowly changing

### Components detailed: github

#### git repository with etl stuff

- docker container build
- etl files
- etl support files
- sql
- fast moving

"TeamCity is a Java-based build management and continuous integration server from JetBrains. It was first released on October 2, 2006. TeamCity is commercial software and licensed under a proprietary license. A Freemium license for up to 20 build configurations and 3 free Build Agent licenses is available.

• building, testing, and releasing

 build (base) docker containers against develop branch

```
reelmetrics/carte:latest / reelmetrics/carte:x.y.z
reelmetrics/cartebase:23
```

on top of public containers

```
blijblij/pentaho:pdi-ce-6.0.1.0-386
blijblijblij/base
debian:jessie
```

 build release tagged docker containers against master branch

```
reelmetrics/carte:release-latest
reelmetrics/carte:release-x.y.z
reelmetrics/cartebase:23
...
```

rake build cartebase:xx

```
require 'pathname'
require 'pry'
require Pathname(__dir__).join('..', 'lib', 'Rakefile.rb')

VERSION = ENV['VERSION'] || 'develop'
IMAGE_TAG = ENV['IMAGE_TAG'] || 'reelmetrics/cartebase'

task default: [:build, :tag, :push]
```

- bash build carte:latest
- Create zip
- Build container
- Push
- Update marathon
- Update slack

### Components detailed: marathon

### All hail to the demo gods

#### Fin

- github github.com/blijblijblij
- blog blijblijblij.github.io/
- twitter <a>@blijblijblij</a>

#### I thank the motivator

#### Windows

A fatal exception OE has occurred at 0028:C0034B23. The current application will be terminated.

- Press any key to terminate the current application.
   Press CTRL+ALT+DEL again to restart your computer. You will lose any unsaved information in all applications.
  - Press any key to continue



#### I thank the intellectual



" for advocating something else
The Cathedral and the bazaar
The Art of Unix Programming

"

### I thank the benevolent dictator



" for f^\$%%\$ -ing doing it!