

Dropwizard VS Spring Boot

Imitation is the most sincere form of flattery

Agenda

The Goal

a (very) short introduction into the worlds of microservices, Spring Boot and Dropwizard

- Microservices
- Dropwizard
- Spring Boot
- Demo
- ~~REST api~~
- ~~SOA vs microservice~~
- ~~PaaS~~
- ~~SQL vs MongoDB~~

The Problem

Get stuff DONE

- Efficiently
- Effectively
- Easily
- In a repeatable way

The Solution

Just run out of the box

The Solution

- KISS
 - "Write programs that do one thing and do it well."
 - "Write programs to work together"
- Create stand-alone applications
- Embed a web provider directly
- Simplify your environment configuration
- Automatic configuration
- Absolutely no requirement for XML configuration (the 00s are over!!)
- Absolutely no code generation
- Provide a range of non-functional features

Microservice vs Monolithic

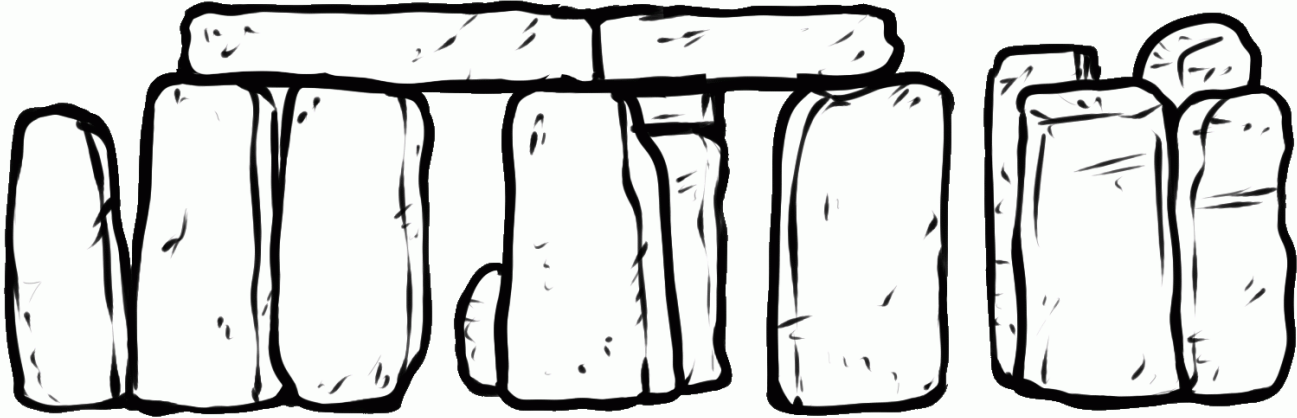
monolithic mɒnə'liθɪk

1. formed of a single large block of stone.
2. (of an organization or system) large, powerful, indivisible, and **slow to change.**

Megalithic meɡə'liθɪk

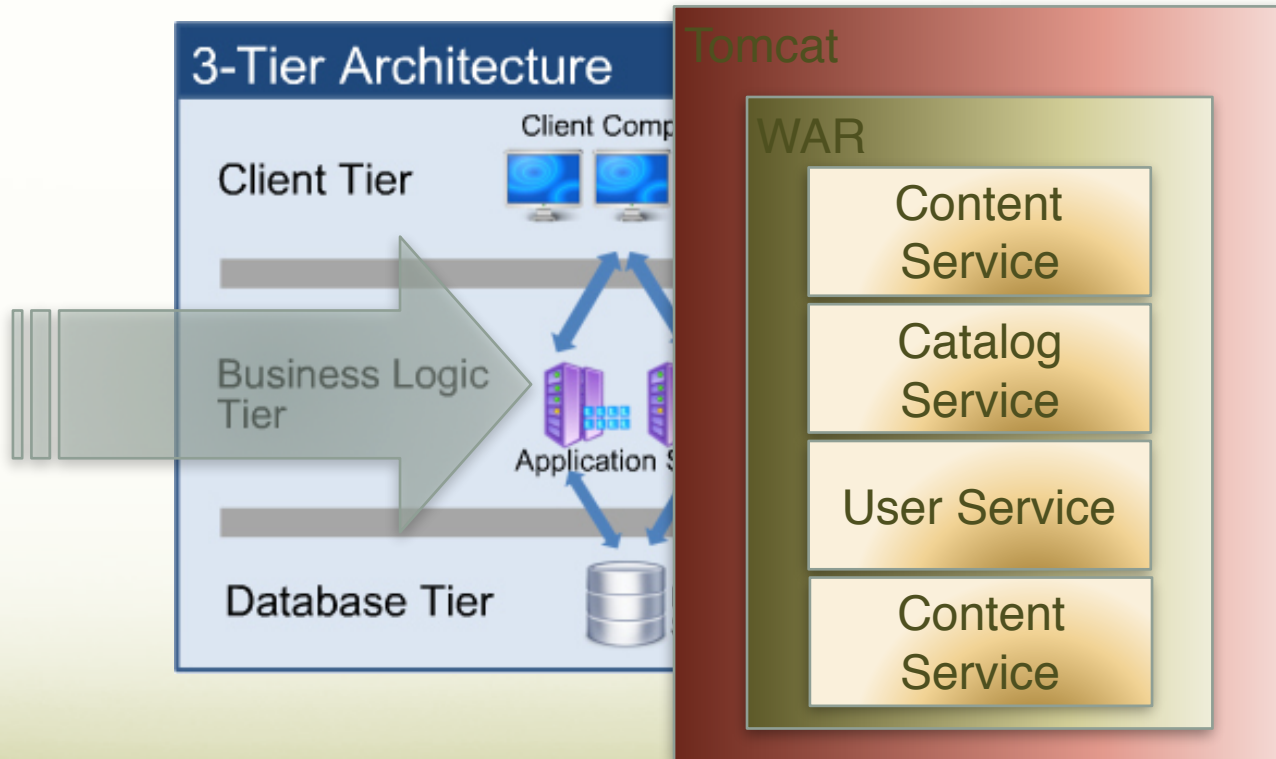
1. relating to or denoting prehistoric monuments made of or containing megaliths.

Microservice vs Monolithic



EARLY EXAMPLE OF MONOLITHIC MEGALITHIC SYSTEM

Microservice vs Monolithic



Microservice vs Monolithic



Catalog Service



Store UI



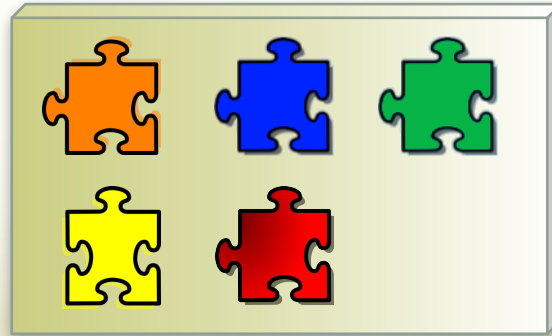
User Service



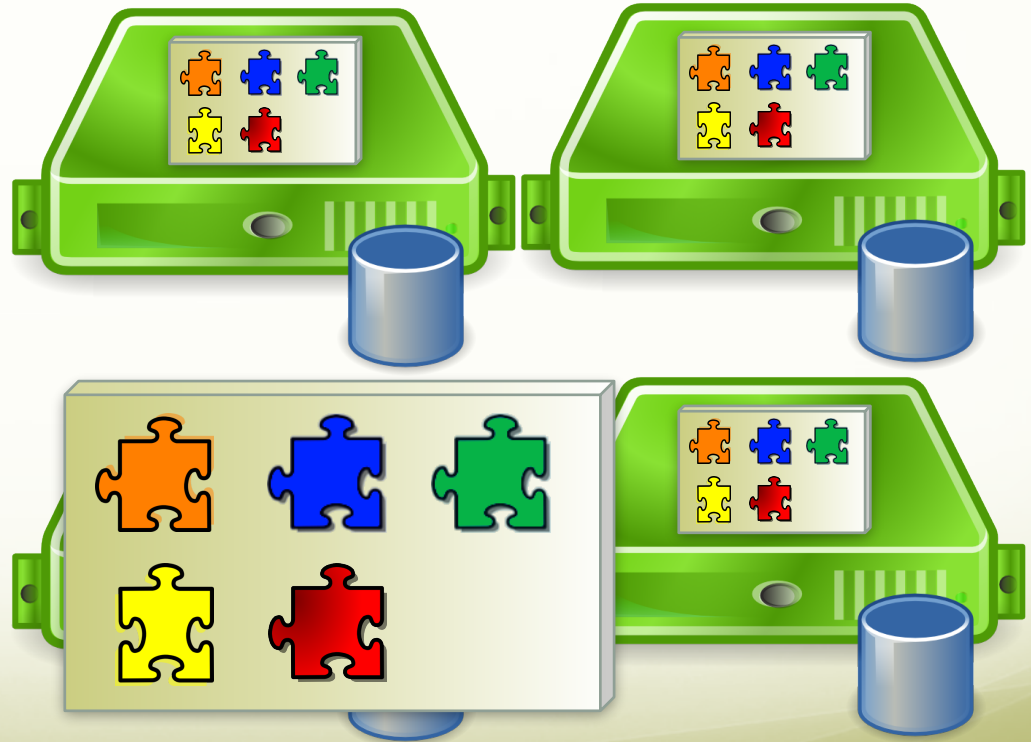
Shopping Basket Service



Payment Service



Microservice vs Monolithic



Microservice vs Monolithic



Catalog Service



Store UI



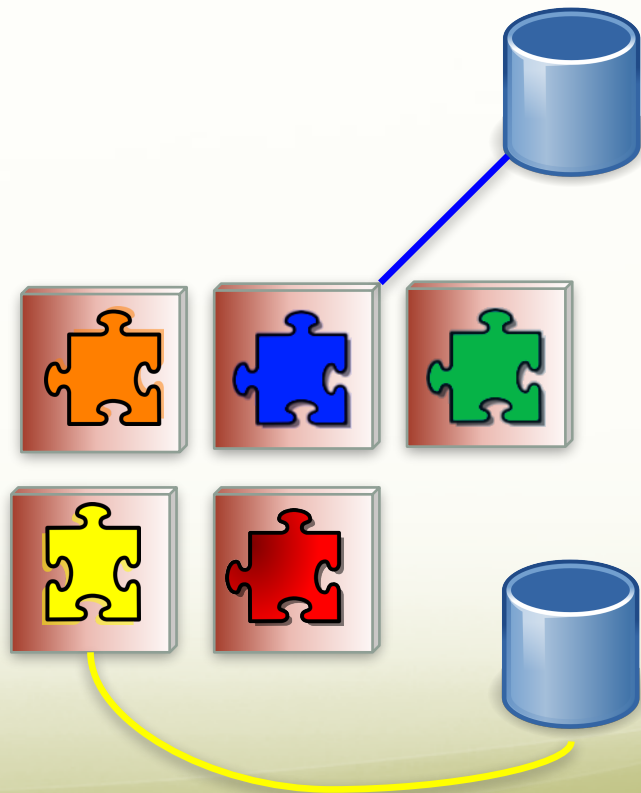
User Service



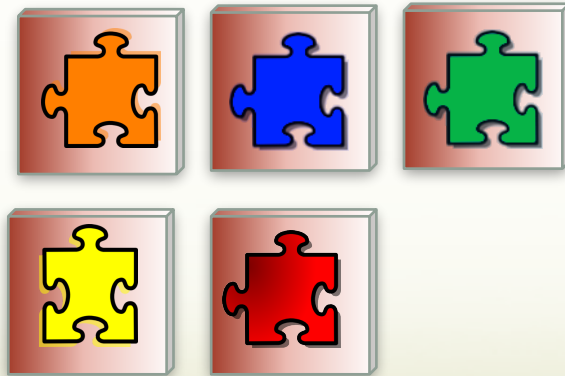
Shopping Basket Service



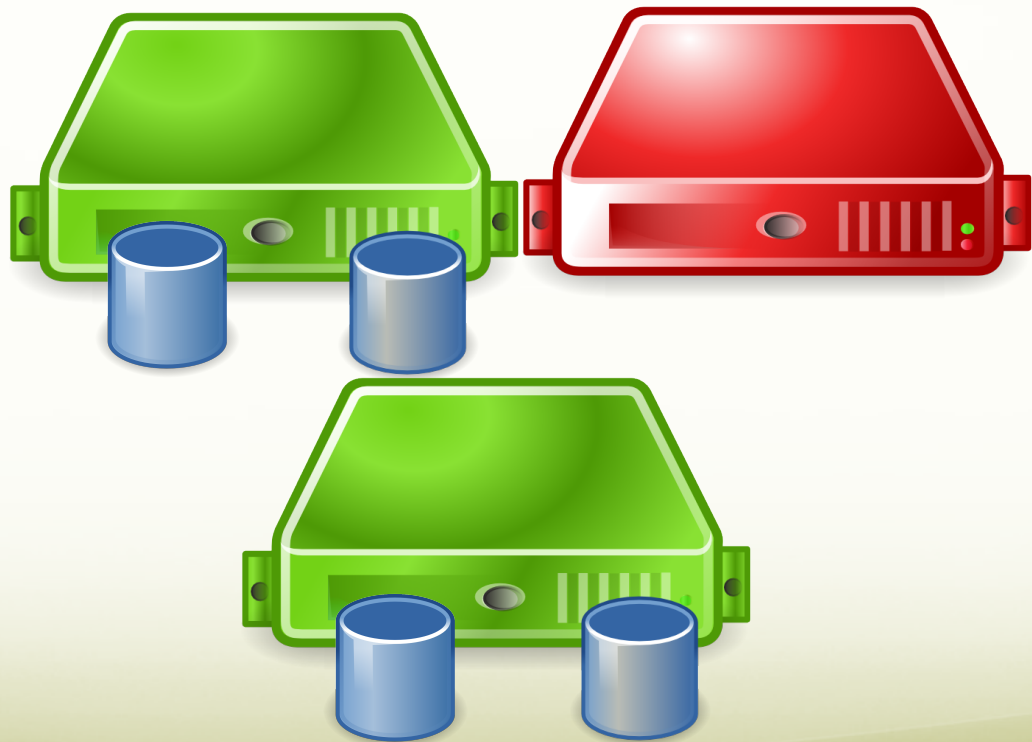
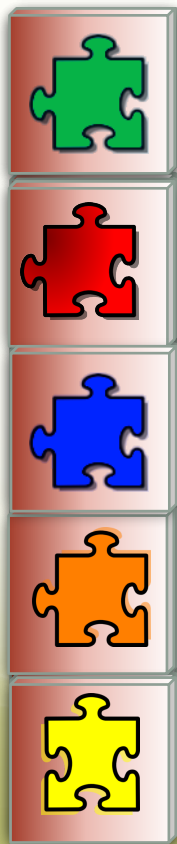
Payment Service



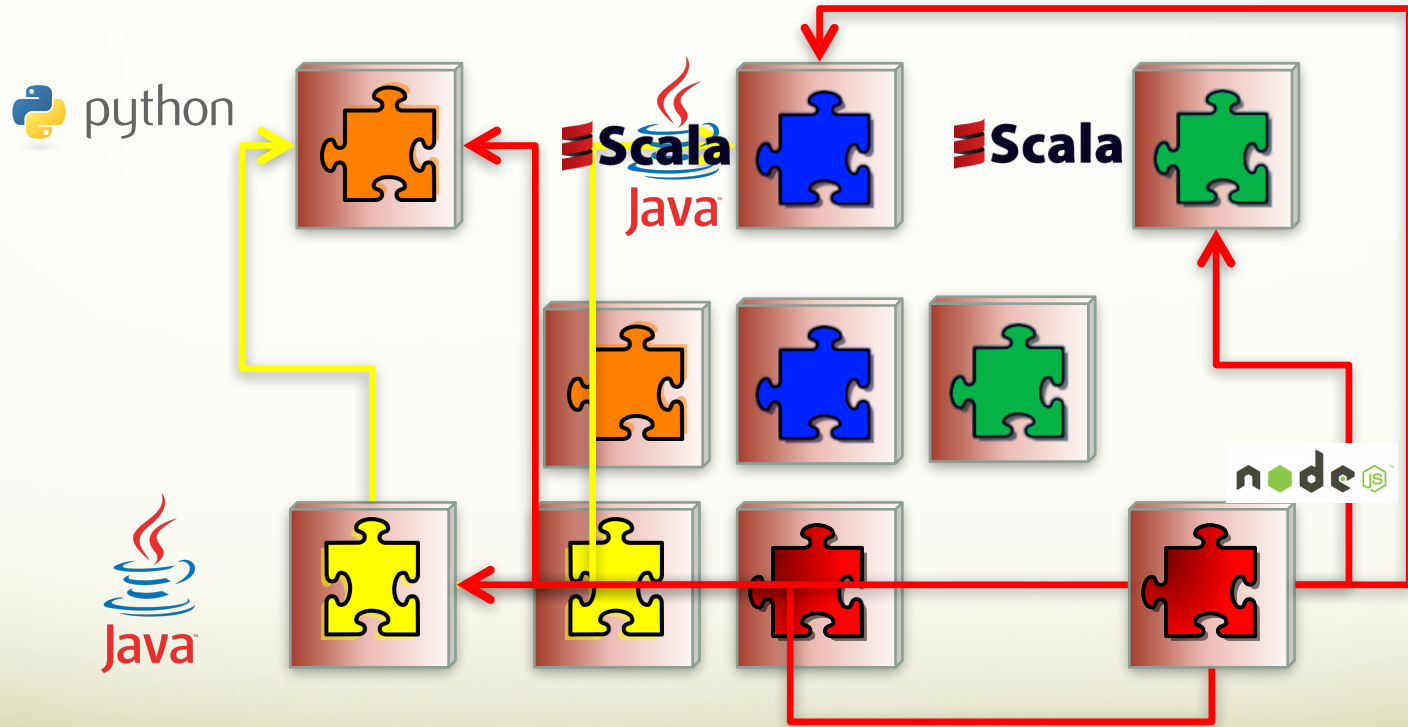
Microservice vs Monolithic



Microservice vs Monolithic



Microservice vs Monolithic



Microservice

- Simple, fast and with a single responsibility
- Container-less
- Independent, replicable and predictable behavior
- Status Aware and Auto Scalable
- It is SOA gone ... right
- Sharing code
- Orchestration
- Provisioning
- One-to-one mapping
- Integration Test(s)

Microservice

- Dropwizard
- Spring Boot
- Ratpack
- Sinatra
- Scalatra
- Flask
- Express.js
- Java
- REST api

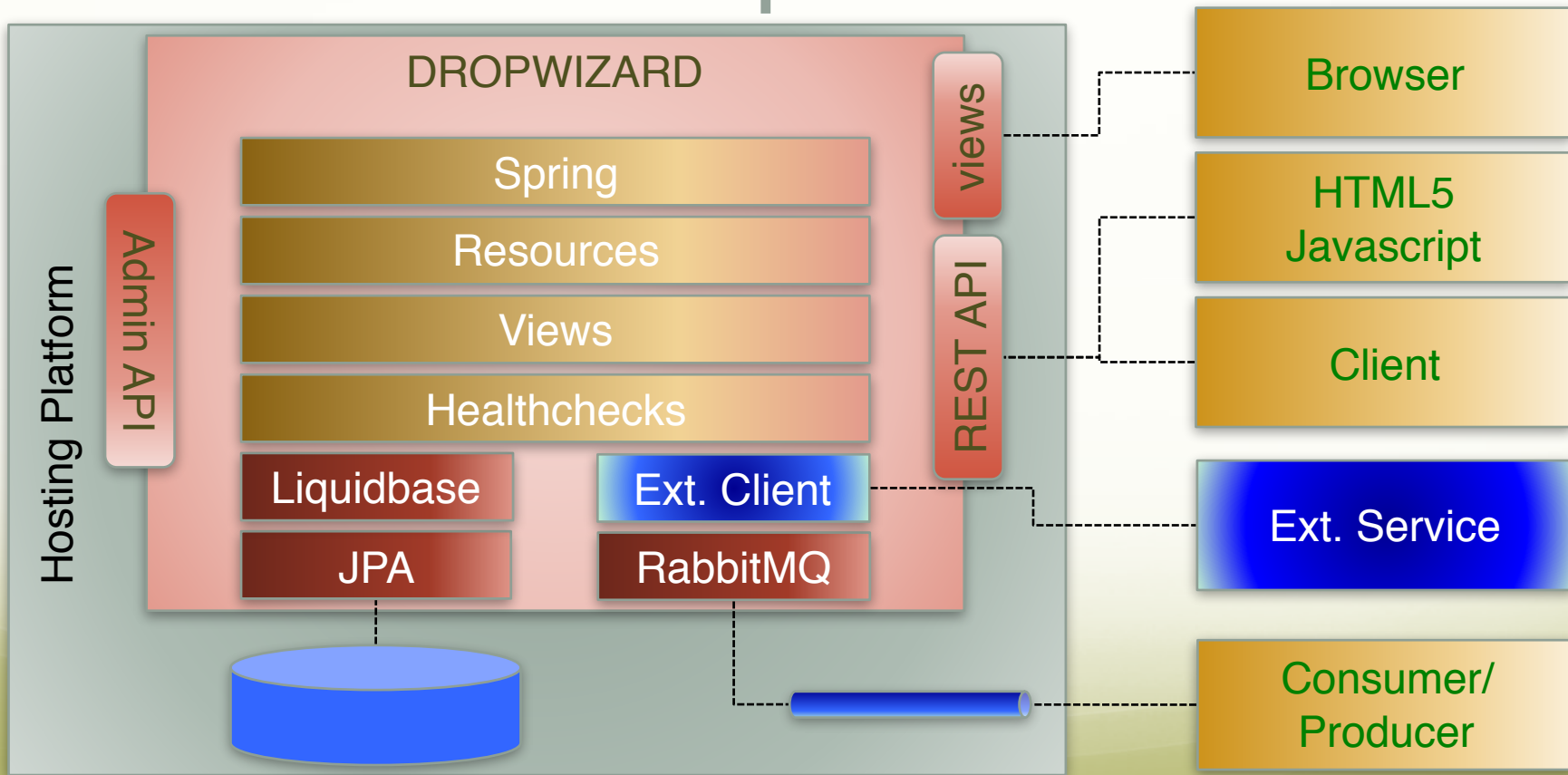
Enter Dropwizard

- Dropwizard is a Java framework for developing ops-friendly, high-performance, RESTful web services
- Dropwizard provides out-of-the-box support for
 - Configuration
 - Application metrics
 - Operational tools
- Dropwizard allow to deliver production quality RESTful service (and more) in short time

Dropwizard

- Bundles
- Resources (REST api and views)
- Commands
- Tasks
- Healthchecks

Dropwizard



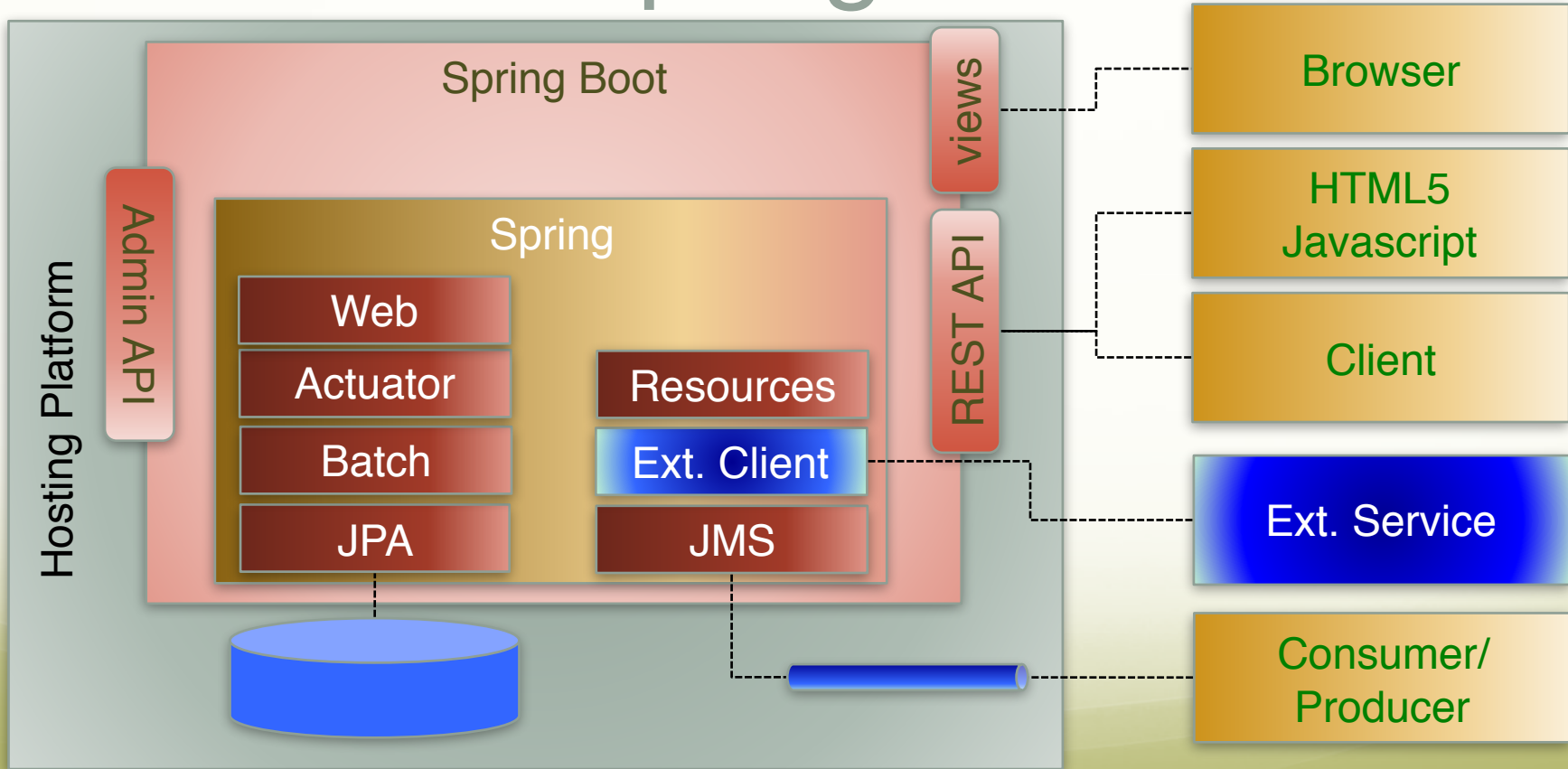
Awakening of the Gods

- Spring Boot is a Java framework for developing ops-friendly, high-performance, RESTful web services
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Spring Boot

- Spring-powered,
- Creates production-grade applications and services
- Easy to set up
- Full integration with Spring framework
- absolutely **no** requirement for XML configuration.

Spring Boot



Dropwizard vs Spring Boot

Dropwizard	Spring Boot
Creates stand-alone applications	
Provides out-of-the-box support for non-functional tools	Provides out-of-the-box support for non-functional tools
Provides embedded Jetty	Provides embedded Tomcat or Jetty
Supports just java	Supports Java and Groovy
Supports configuration in YAML file	Supports configuration in either JSON or YAML

Dropwizard vs Spring Boot

Dropwizard	Spring Boot
Provides support for bundled components.	Provides opinionated 'starter' POMs.
Needs bundle for supporting Spring DI.	Supports native Spring DI.
Documentation is poor.	Documentation is Spring.
No support for legacy code.	Your Spring legacy code will work.
Steep learning curve.	Smooth learning curve.

Thanks

- Diggory for getting me/us into the micro-service world
- Miriam for conceding me this space
- The AKQA tech team for all the moments and pizzas we shared during the last 2 years (and 4 months)
- **Arrieros somos y en el camino nos encontraremos**