

Cloud Native Java

–

Getting Started!

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So what's all the buzz about „Cloud“ and „Microservices“?



And what is this talk about?



Spring Boot



Spring Boot

- Create stand-alone Spring applications
 - Embed Tomcat, Jetty or Undertow
- Convention over configuration / Auto-configuration
- Starter dependencies
- Actuator: built-in metrics and health checks

Spring Boot



Phil Webb
@phillip_webb



Following

For those on reddit.com/r/java/ saying it's Spring Boot is "the framework for a framework" here's a diagram:



Demo



Cloud Foundry



CLOUD **FOUNDRY**

Cloud Native Platform as a Service (PaaS)



CLOUDFOUNDRY

open source | multi cloud | developer-friendly

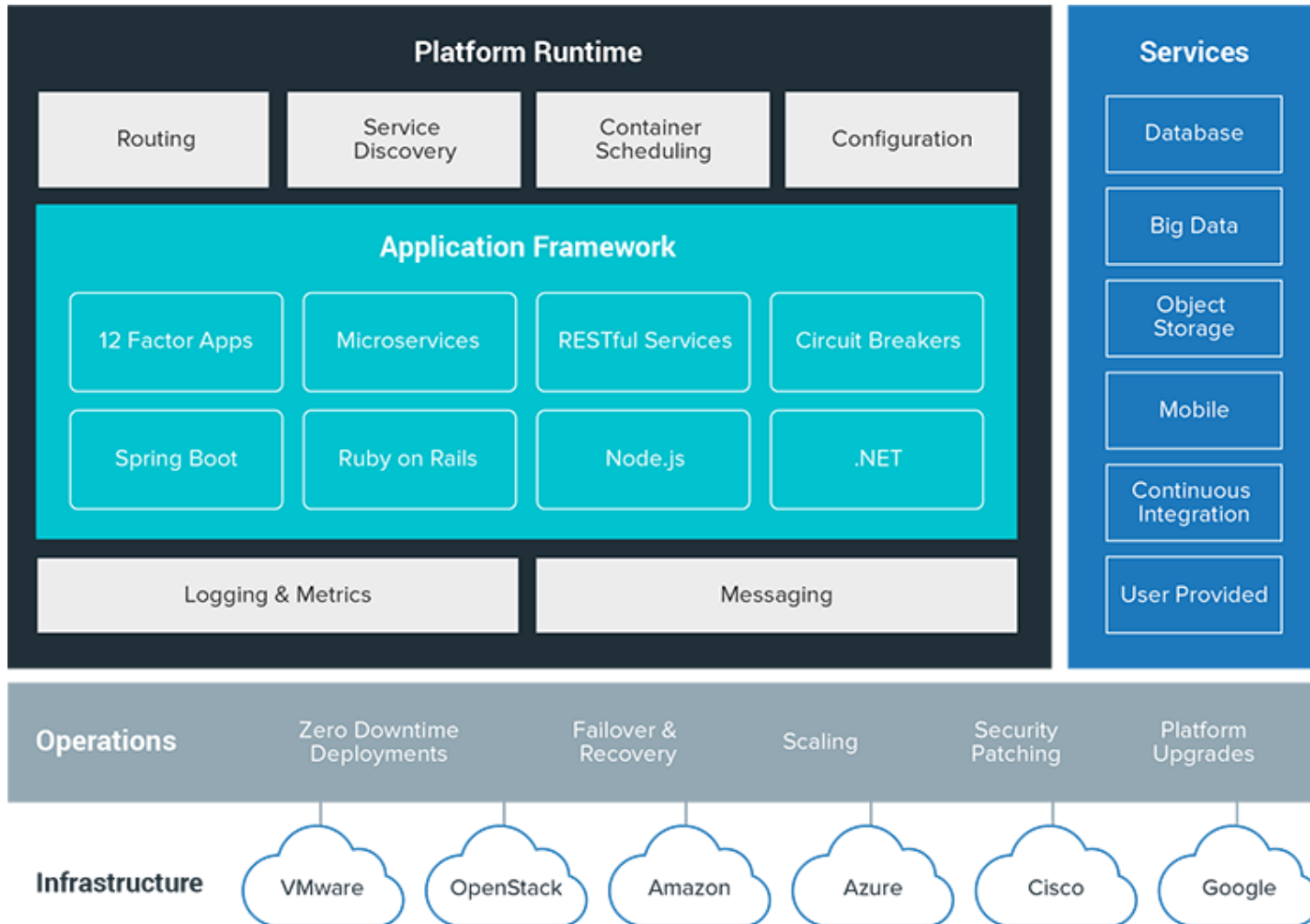
Open source PaaS

- *“Cloud Foundry is the **world’s leading open source platform** for cloud applications.”*

Source: <https://www.cloudfoundry.org/members/>

- Governed by the **Cloud Foundry Foundation**
- Backed by industry leaders in IT and a spectrum of end user organizations

Multi-cloud PaaS



Source: <https://yourdailytech.com/cloud-architecture/review-a-peek-into-pivotal-cloud-foundry/>

Cloud Foundry – some public platform providers



Pivotal
Web Services



IBM Bluemix™



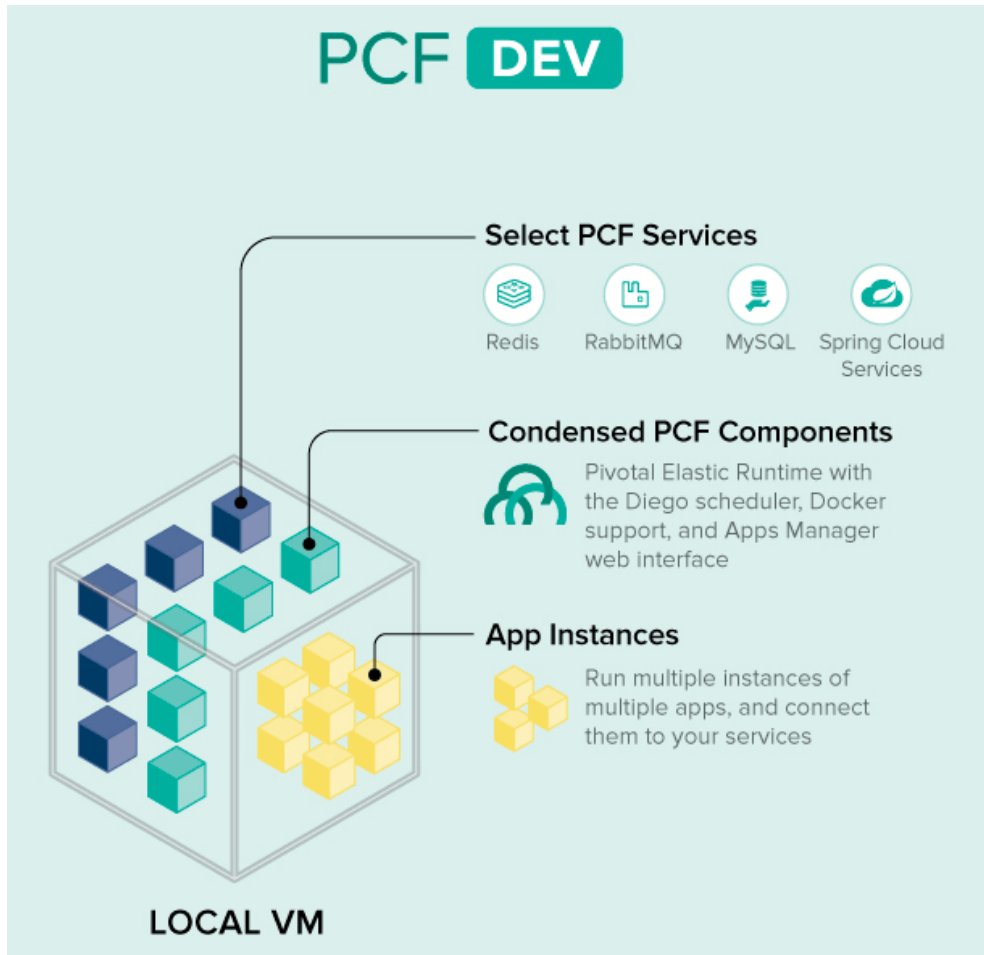
PREDIX



Atos Cloud Foundry



PCF Dev – PCF for Local Development



Source: <https://pivotal.io/pcf-dev>

“PCF Dev is a small footprint distribution of Pivotal Cloud Foundry (PCF) intended to be run locally on a developer machine. It delivers the essential elements of the Pivotal Cloud Foundry experience quickly through a condensed set of components.”

Demo



CLOUD **FOUNDRY**

Developer-friendly PaaS

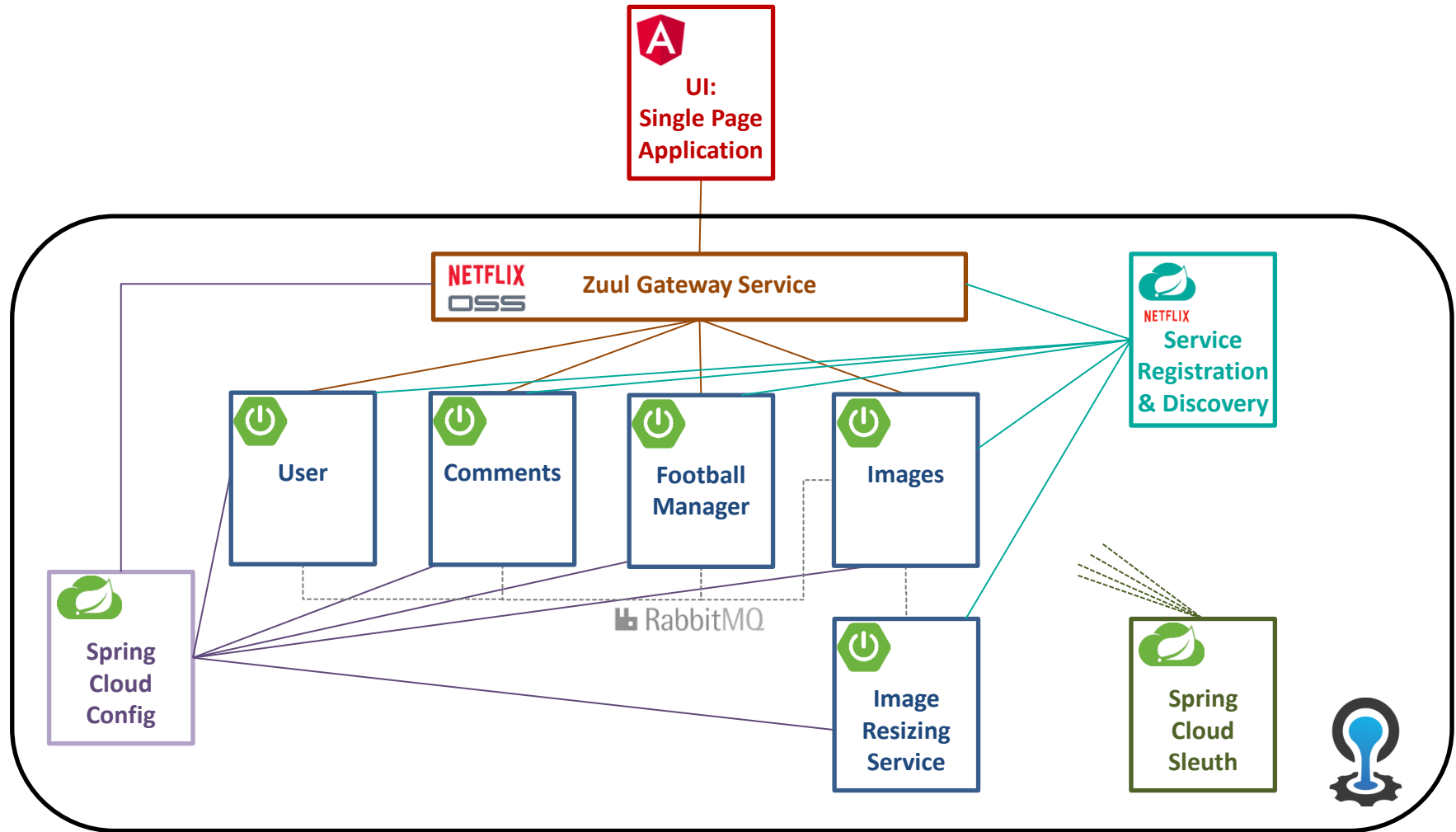


cf push haiku

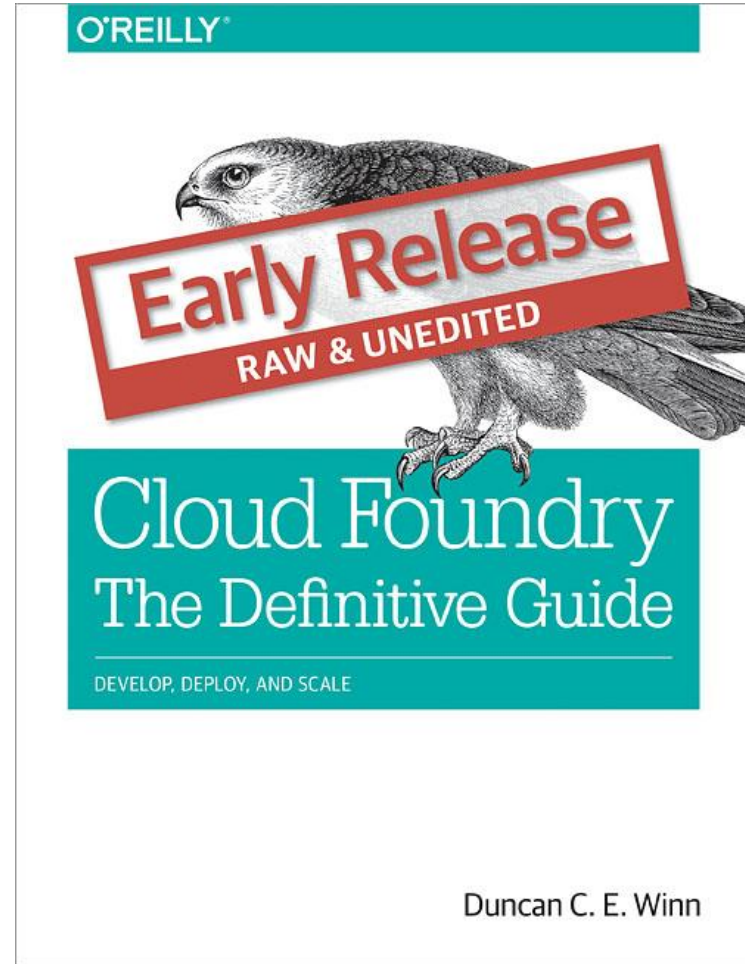
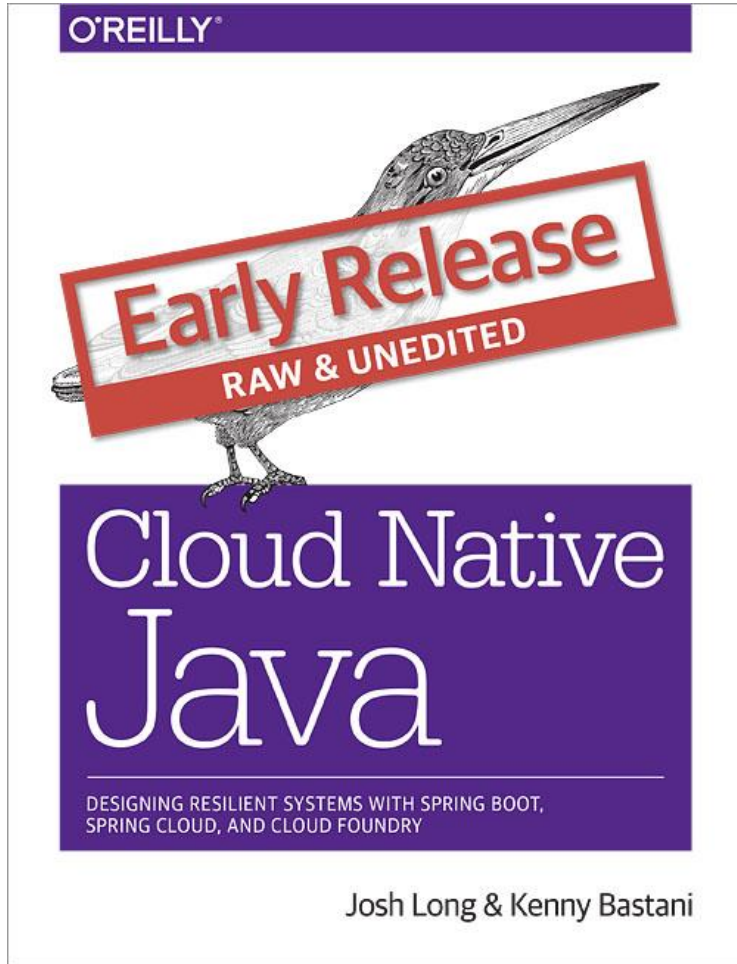
"Here is my source code.
Run it in the cloud for me.
I do not care how."

- @onsijoe

Cloud Native Java – Getting Further!



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Cloud Foundry Meetups



Stuttgart:

<https://www.meetup.com/de-DE/Stuttgart-Cloud-Foundry-Meetup>

Cloud Native Java – Getting Further!

blog.novatec-gmbh.de

- <http://blog.novatec-gmbh.de/howto-get-started-pivotal-cloudfoundry-local-public>
- <http://blog.novatec-gmbh.de/managing-concurrency-in-a-distributed-restful-environment-with-spring-boot-and-angular2>
- <http://blog.novatec-gmbh.de/service-discovery-eureka-cloud-foundry>

spring.io

- <http://spring.io/guides/gs/spring-boot>
- <http://projects.spring.io/spring-cloud>

cloudfoundry.org

- <http://docs.cloudfoundry.org/devguide/index.html>

pivotal.io

- <http://pivotal.io/platform/pcf-tutorials/getting-started-with-pivotal-cloud-foundry>