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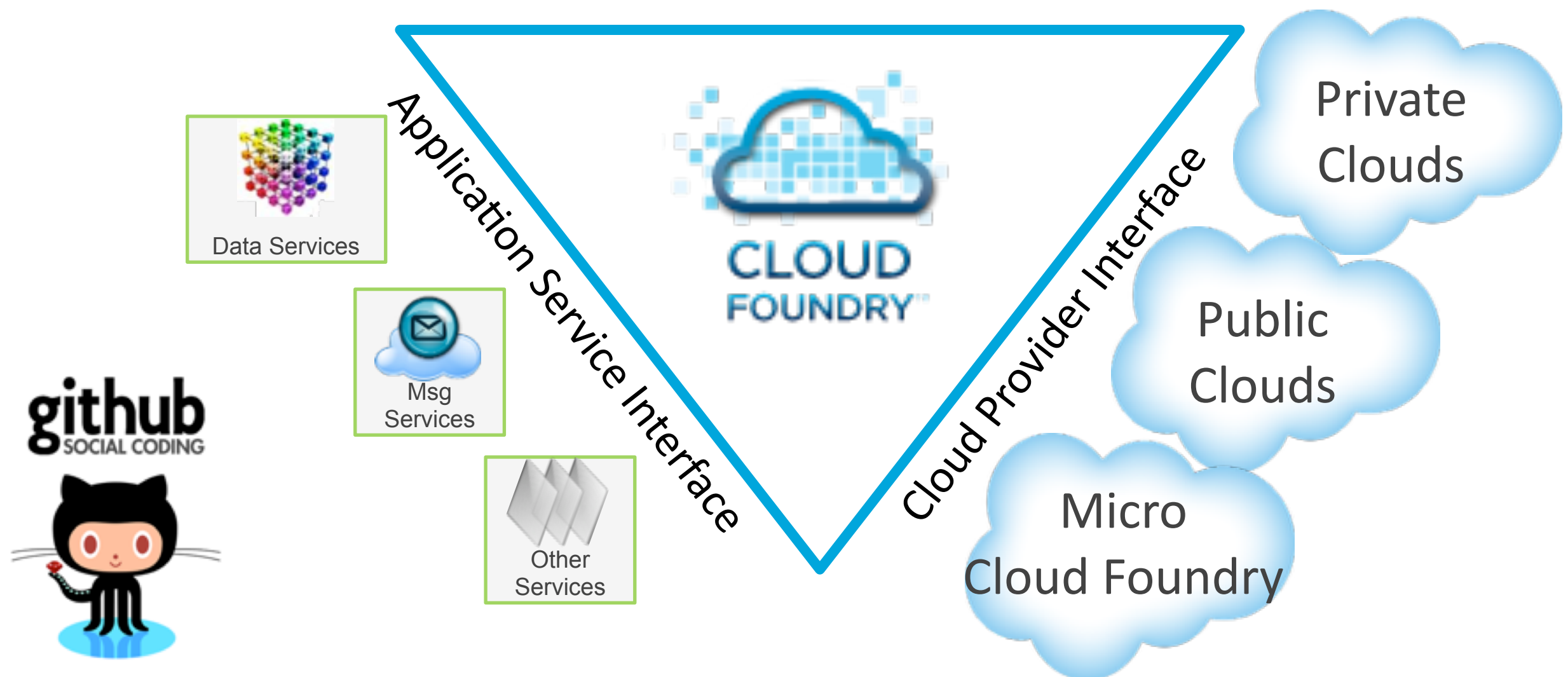
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Martin Lippert
Principal Software Engineer - Pivotal
mlippert@gopivotal.com
@martinlippert

Cloud Foundry Open PaaS



Apache2 license

history

developed and published by VMware in 2011

<https://github.com/cloudfoundry>

Now part of Pivotal

<http://gopivotal.com>

Fully open-source
(cloud platform itself, hosting and admin tools,
developer tooling)

Fully open contribution process

past: runtimes & frameworks

Java (6 + 7): Web, Spring, Lift, Play

node.js (0.4 + 0.6 + 0.8)

Ruby: Rails, Sinatra, Rack

BYOC (standalone apps, container + JVM tuning)

future: buildpacks

Heroku-like buildpacks

define the environment

you can write and use your own buildpacks

Java buildpack

- Standard Containers
 - [Groovy \(Configuration\)](#)
 - [Java Main Class \(Configuration\)](#)
 - [Play](#)
 - [Spring Boot CLI \(Configuration\)](#)
 - [Tomcat \(Configuration\)](#)
- Standard Frameworks
 - `JAVA_OPTS` [\(Configuration\)](#)
 - [New Relic \(Configuration\)](#)
 - [Play Auto Reconfiguration \(Configuration\)](#)
 - [Play JPA Plugin \(Configuration\)](#)
 - [Spring Auto Reconfiguration \(Configuration\)](#)
- Standard JREs
 - [OpenJDK \(Configuration\)](#)
- [Extending](#)
- Utilities
 - [Caches \(Configuration\)](#)
 - [Logging \(Configuration\)](#)

services

ClearDB - MySQL

RedisCloud - Redis

ElephantSQL - PostgreSQL

MongoLab - MongoDB

CloudAMQP - RabbitMQ

NewRelic - Monitoring

LoadImpact - Load Testing

SendGrid - Email

TreasureData - Hadoop Data Warehouse

BlazeMeter - JMeter Load Testing

on your own:

you can implement your own services

services can be hosted externally

tools

(developer perspective)

cf - command line

Cloud Foundry Integration for Eclipse

Maven plugin

Gradle plugin

web-based dashboard

additional highlights

BOSH

(managing cloud environments)

allows you to operate your own CF
in your own datacenter

used by all CF teams
to operate their CF installations

example app

Spring version runs out-of-the-box when deployed from Eclipse

replacing embedded database with SQL service:
should be done automatically, if available

or define yourself using the `cloud` profile

```
12 @Configuration
13 @PropertySource("classpath:/application.properties")
14 @Profile("!cloud")
15 public class AppLocalConfig {
```

```
9 @Profile("cloud")
10 @Configuration
11 public class AppCloudConfig extends AbstractCloudConfig {
```

spring cloud

allows you to define your Spring app independent of a specific PaaS offering

```
@Autowired @Qualifier("inventory-db") DataSource inventoryDb;  
@Autowired @Qualifier("shipping-db") DataSource shippingDb;
```

```
<cloud:data-source id="inventory-db" service-name="inventory-db-service">  
  <cloud:connection properties="sessionVariables=sql_mode='ANSI';characterEncoding=UTF-8"/>  
  <cloud:pool pool-size="20" max-wait-time="200"/>  
</cloud>
```

<https://github.com/spring-projects/spring-cloud>

Resources

Cloud Foundry

<http://www.cloudfoundry.com>

<http://www.cloudfoundry.org>

Cloud Foundry GitHub

<https://github.com/cloudfoundry>

CloudFoundry Integration for Eclipse

<https://github.com/spring-projects/eclipse-integration-cloudfoundry>

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