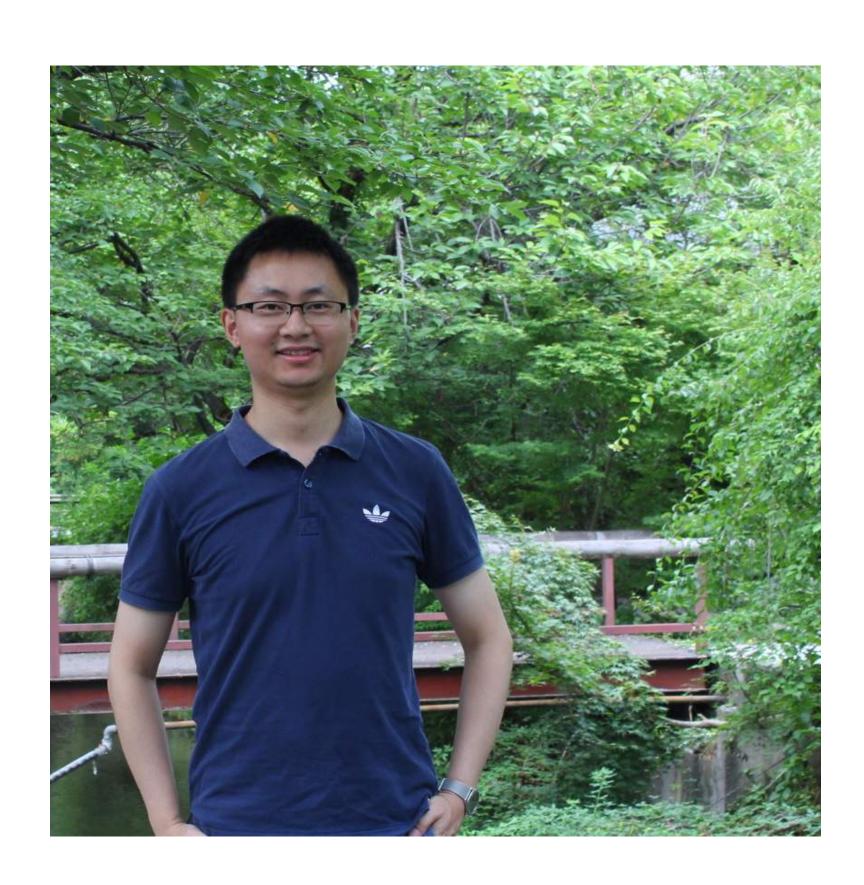


From Apache Dubbo to Apache Dubbo Ecosystem

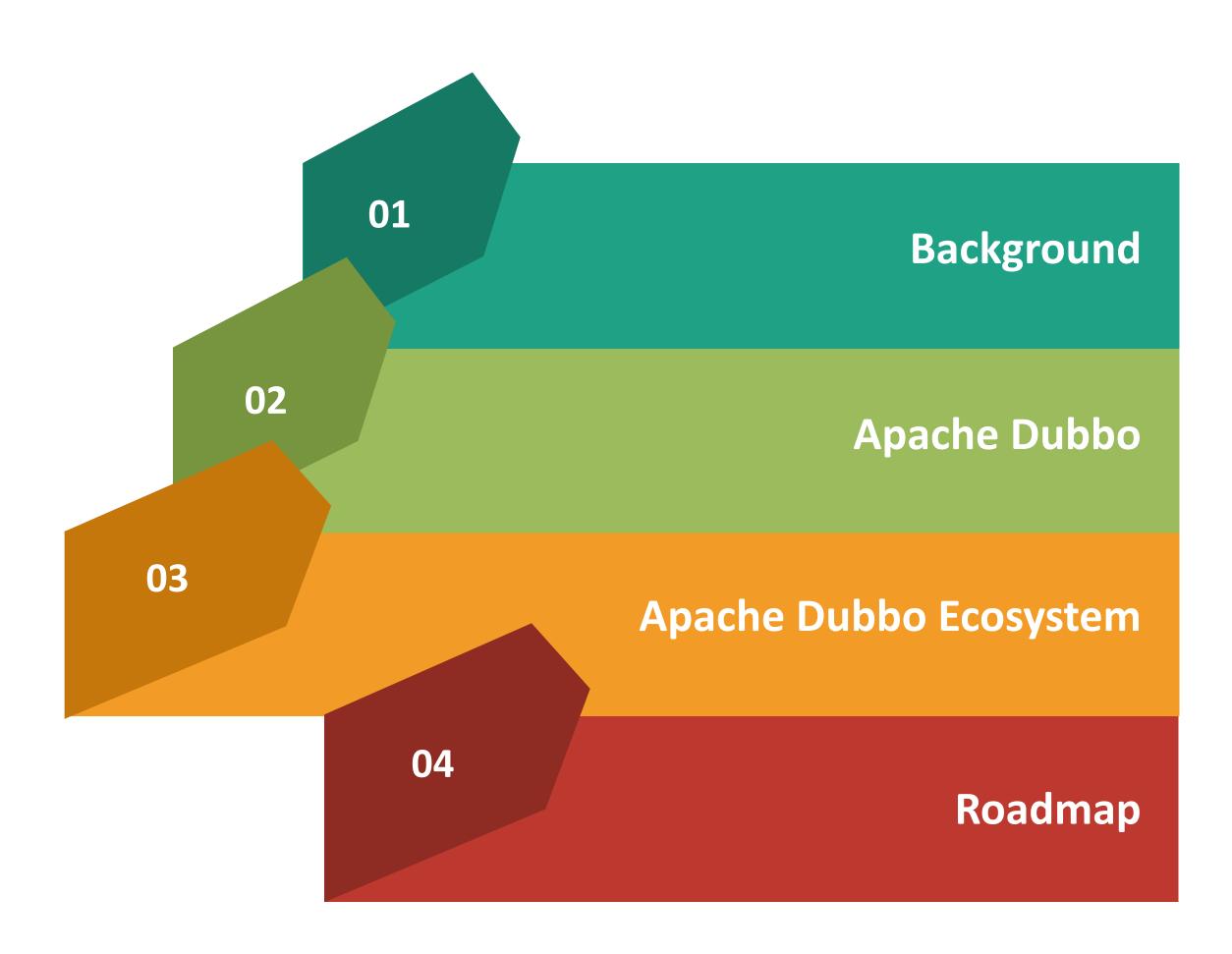
Huxing Zhang 2019.1.8

Huxing Zhang(张乎兴)

- Senior Engineer @ Alibaba
- Apache Dubbo (incubating) PPMC Member
- Apache Tomcat PMC Member
- Arthas Core Developer
- GitHub: ralf0131
- Email: huxing.zhang@gmail.com



Outline



Background

Apache Dubbo™ (incubating) is a high-performance, java based open source RPC framework.

O1 Expose
Service provider exposes
Service on the specified port

Register
Service provider registers
service info to the service registry

Subscribe
Service consumer subscribes
to registry center

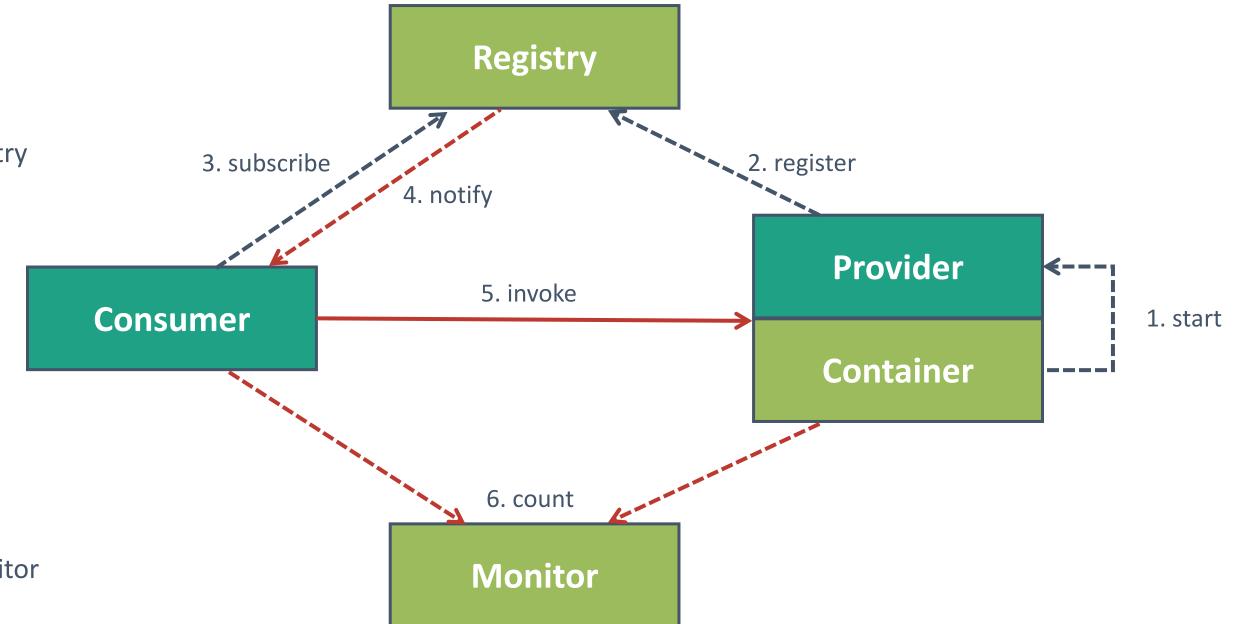
Notify
Registry center notifies service consumer provider's addresses

05 Invoke
Service consu

Service consumer picks one from received addresses, then fires an invocation

Count

Both service provider and
Consumer reports stats to monitor



When talking about Microservices...



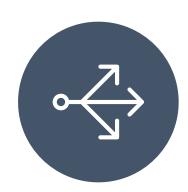
Service Registry

Zookeeper/Eureka/Nacos



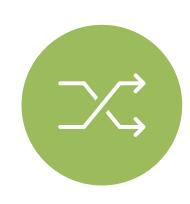
Client-side load balance

Ribbon



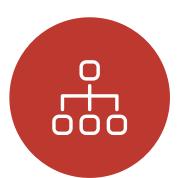
Monitoring

Prometheus, Pinpoint



Dynamic Configuration

Apollo/Nacos/Etcd



Resiliency

Hystrix, Sentinel, Rellience4j

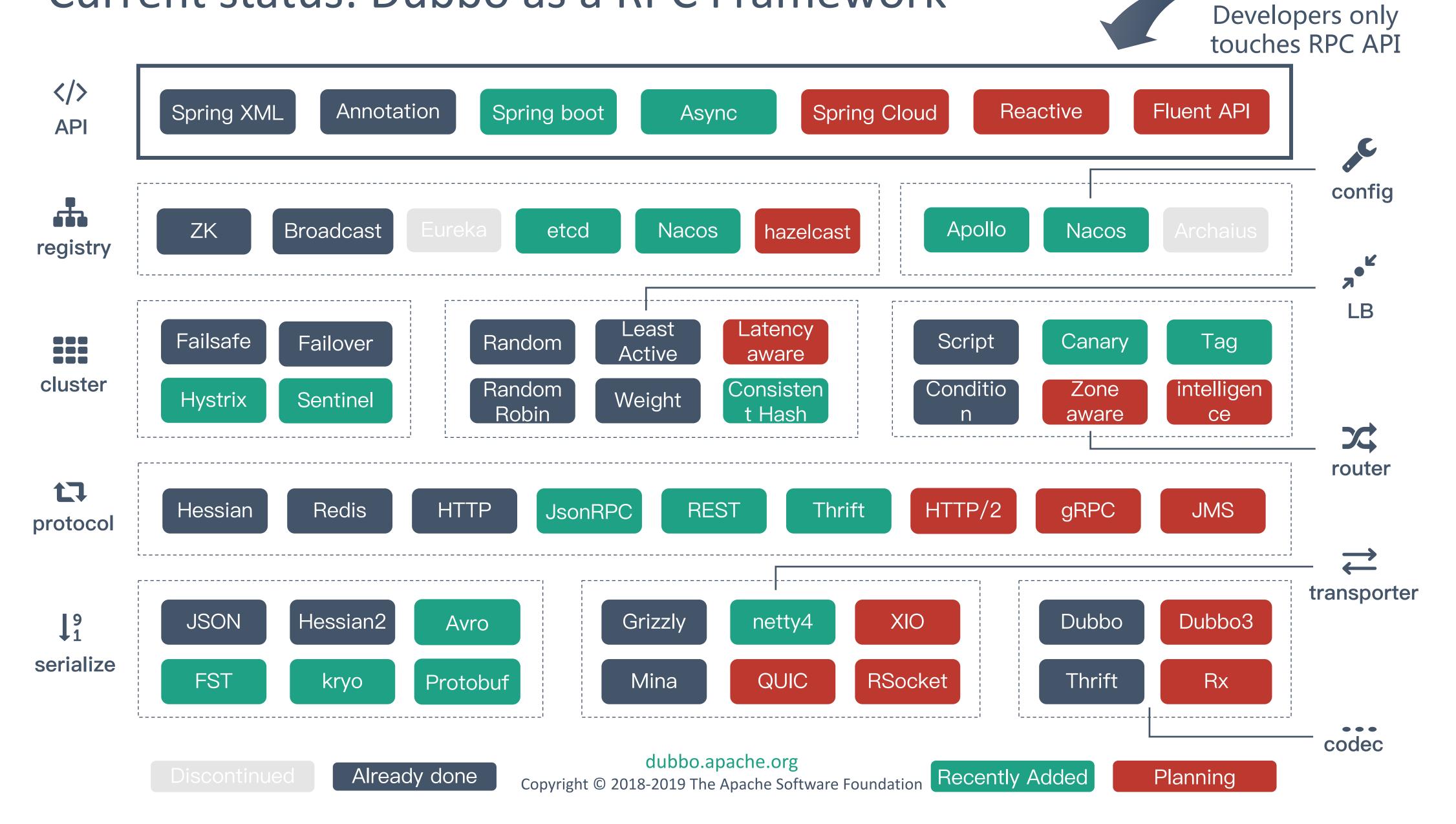


Tracing

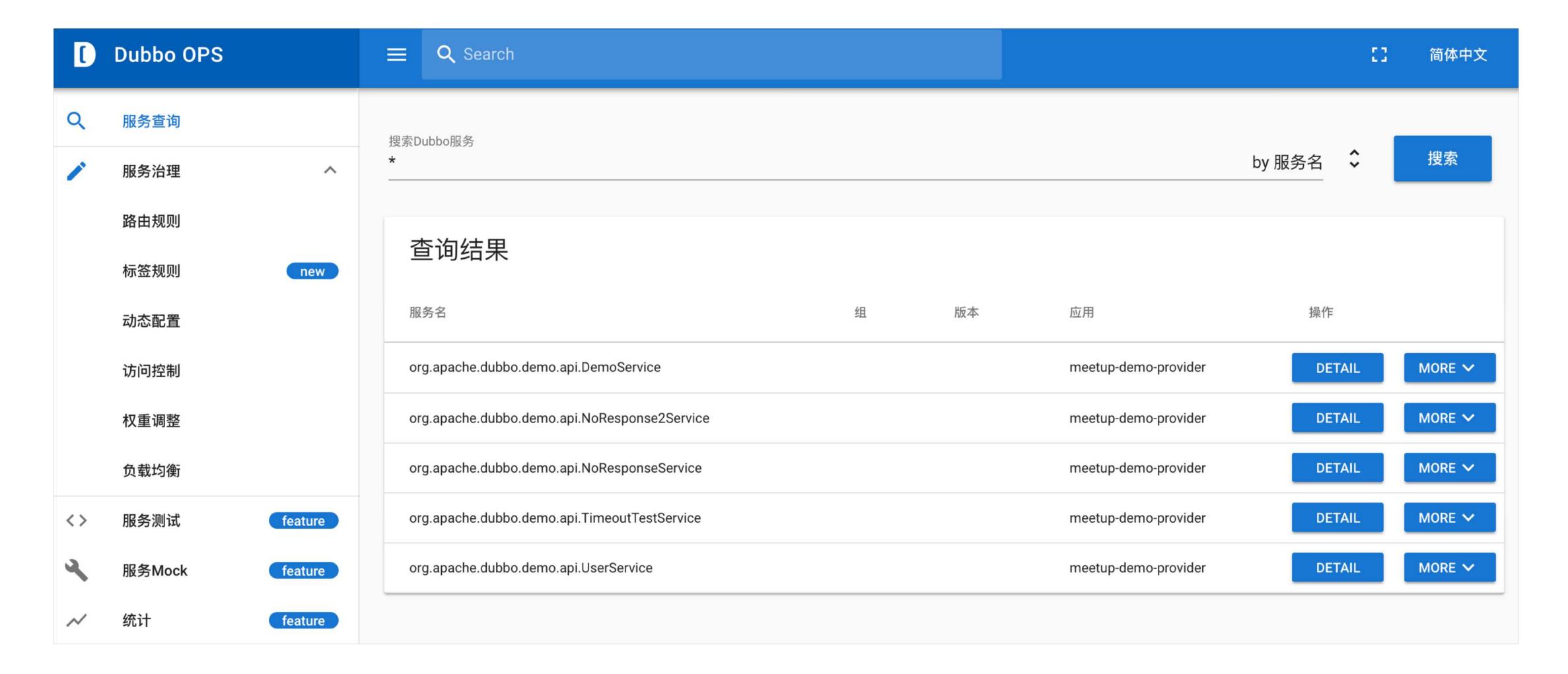
Zipkin, Skywalking

And more ...

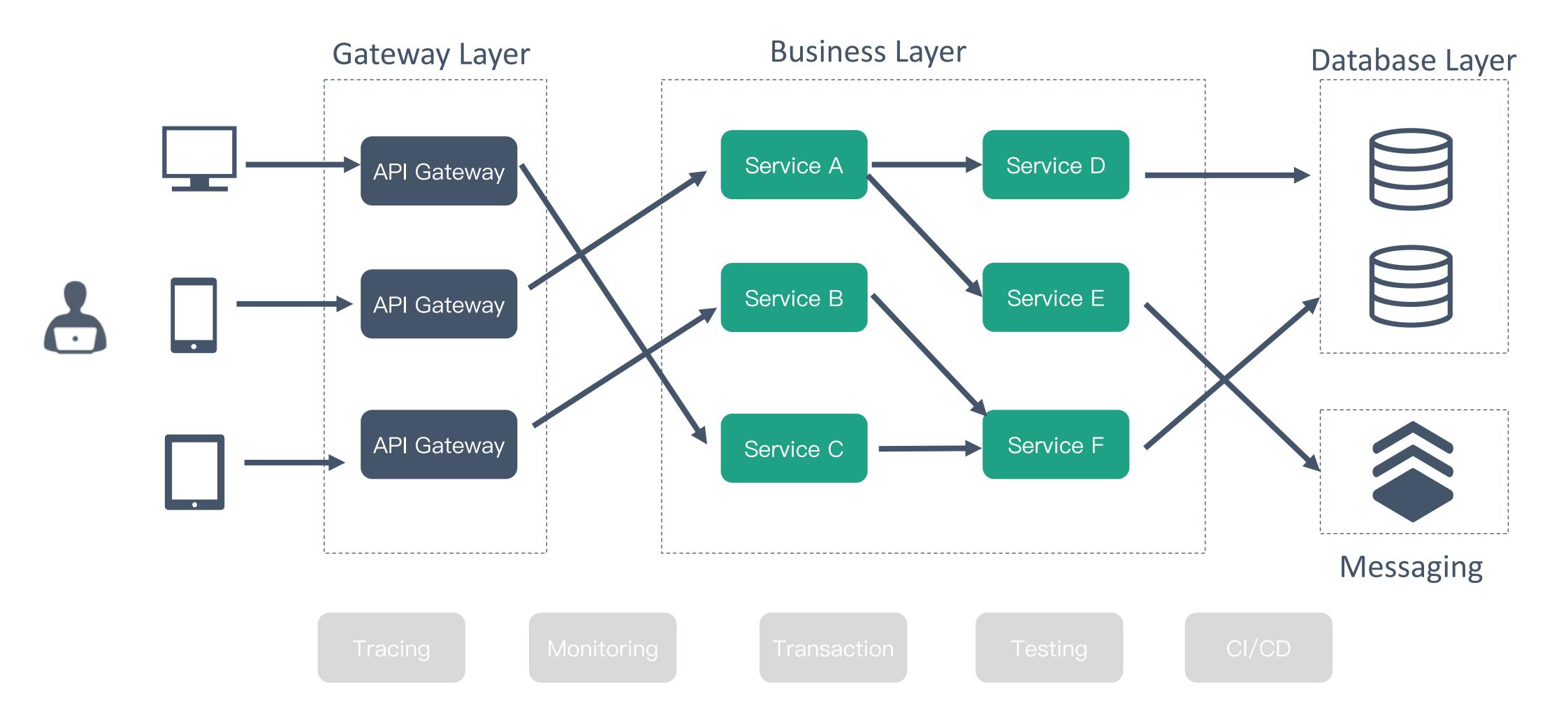
Current status: Dubbo as a RPC Framework



Fresh new Dubbo Admin



What user faces...



Developers

touch multiple

components

Spring Cloud



Spring Cloud Function

https://github.com/markfisher/spring-cloud-function

Spring Cloud Gateway

https://github.com/spring-cloud-incubator/spri cloud-gateway

Spring Cloud Pipelines

Spring Cloud Security

Spring Cloud Config Spring Cloud Netflix Spring Cloud Stream

Spring Cloud for AWS

Spring Cloud Contract

Spring Cloud Bus

Spring Cloud for CloudFoundry

Spring Cloud Sleuth

Spring Cloud Data Flow

Spring Cloud Connectors

Spring Cloud Task



Spring Boot

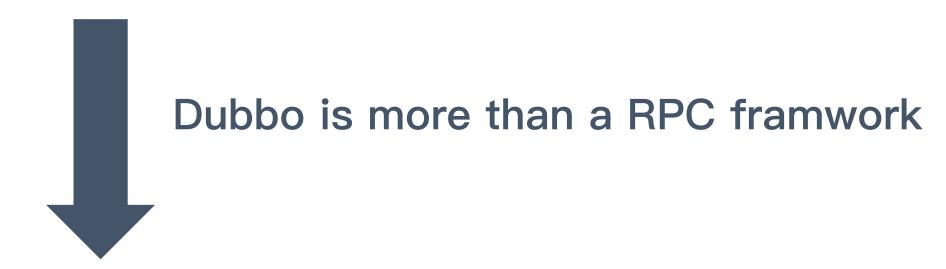




Spring IO Platform

Upgrade Apache Dubbo

Apache Dubbo™ (incubating) is a high-performance, java based open source RPC framework.



Apache Dubbo™ (incubating) is a microservice framework which helps developers to quickly build high performance microservice applications.

Apache Dubbo 是一个微服务框架,帮助开发者快速构建高性能微服务应用。

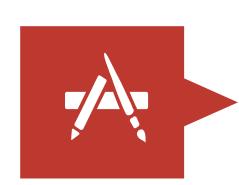
Apache Dubbo Ecosystem



Definition

Apache Dubbo Ecosystem contains multiple projects around Apache Dubbo, which provides production-ready best practices to build microservices applications.

Apache Dubbo Ecosystem 是围绕 Apache Dubbo 打造的微服务生态,是经过生产验证的微服务的最佳实践的组合。



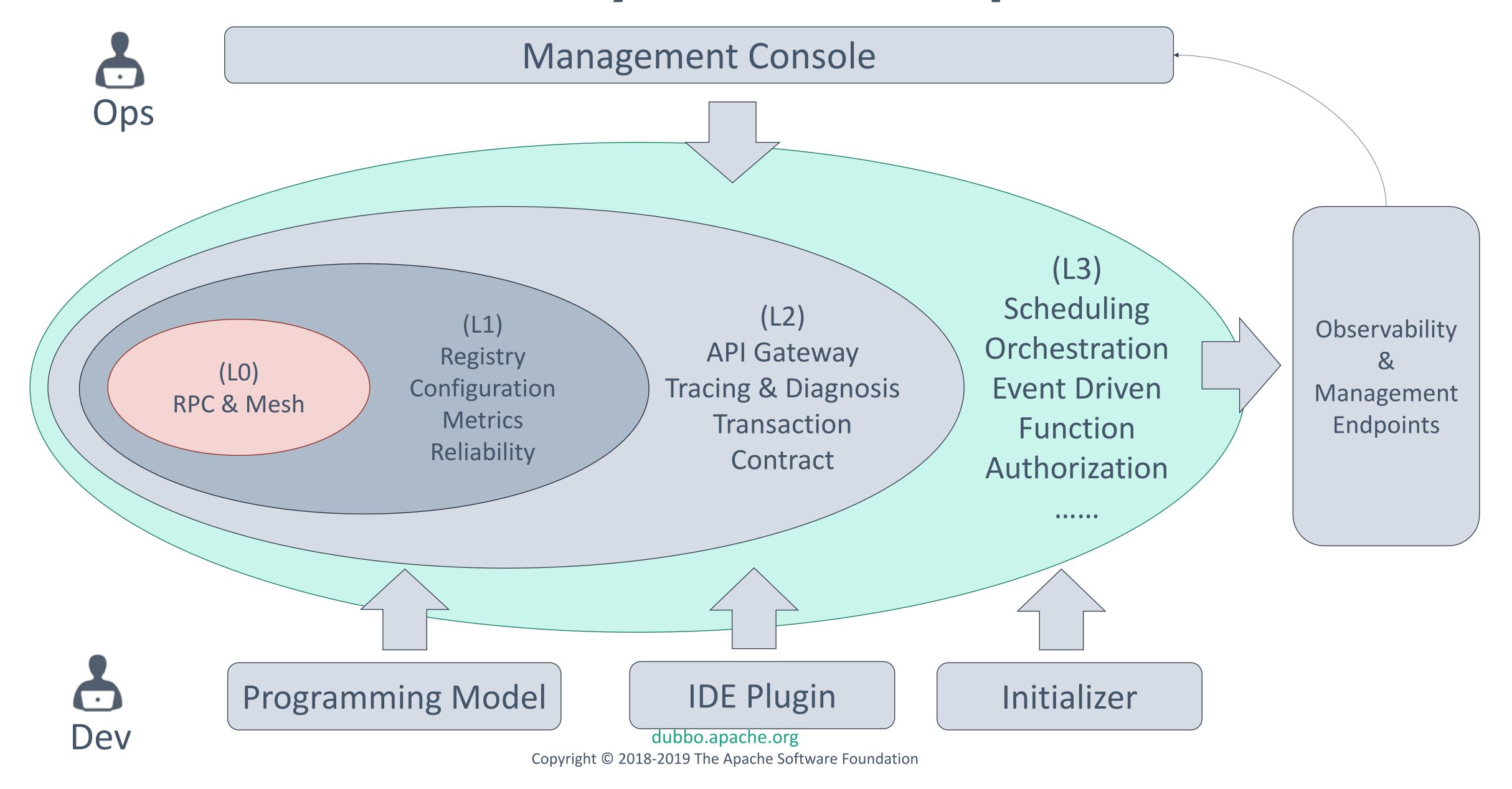
Vision

Apache Dubbo Ecosystem aims to help enterprise user to quickly transit to microservice architecture, and to build cloud native, cross language microservices to speed up the development cycle.

Apache Dubbo Ecosystem 致力于帮助企业用户快速完成微服务化转型,构建云原生,跨语言微服务应用,提高研发迭代效率。

12

Dubbo Ecosystem components



What should be included



Well-known to developers

已经具备很好的开发者群体和影响力



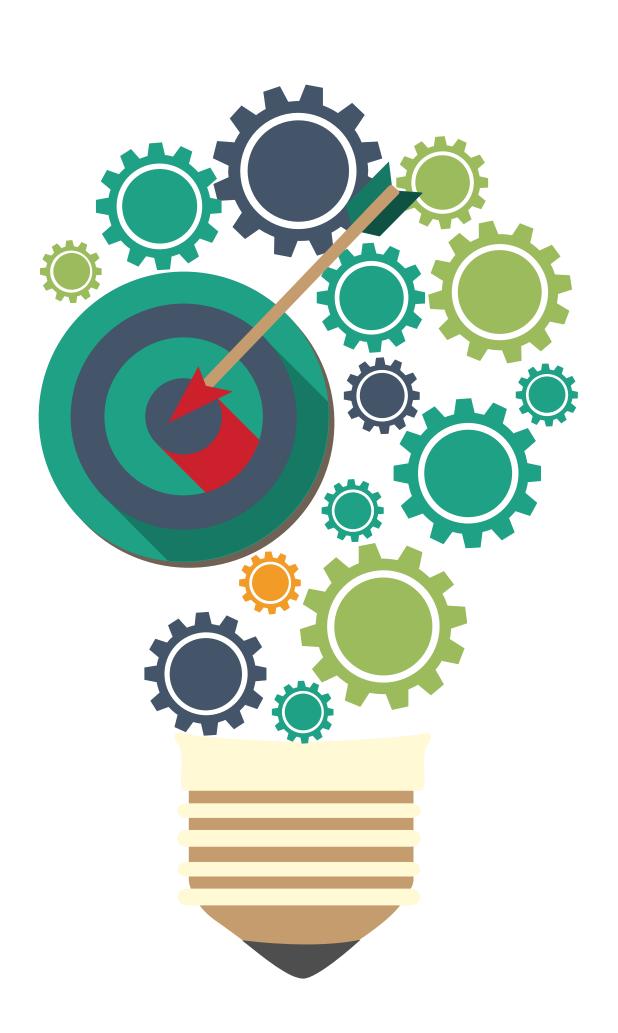
Battle-tested on production system

经过生产系统的考验

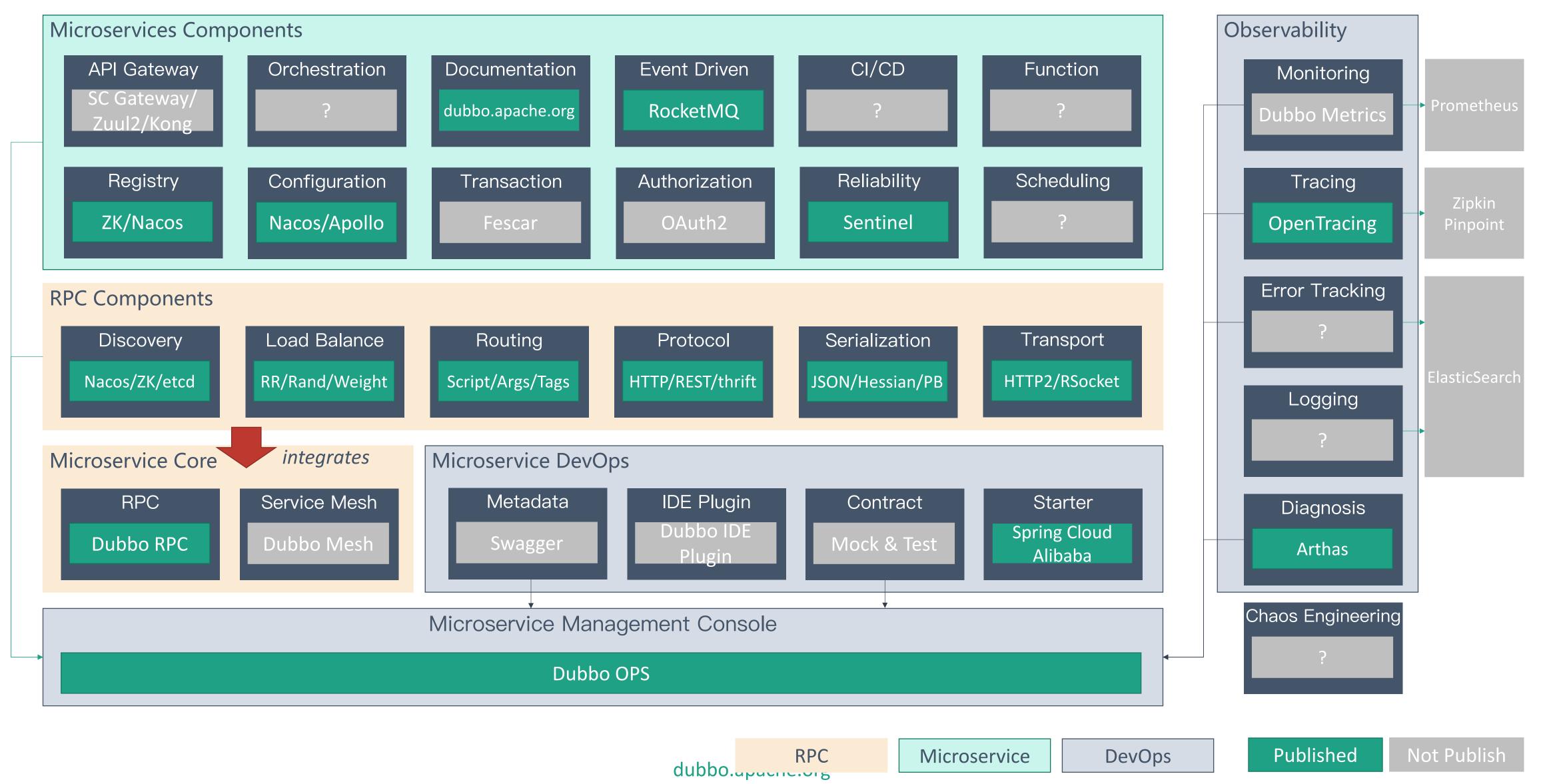


Standard or de facto standard

在某一方面成为标准或者事实标准



Apache Dubbo Ecosystem Overview



Features





Reliable

Battle-tested on production system



Opinionated

No need to choose from 100 open source solutions, we pick it for you Well integrated for each components, but can also use separately



Modern

Reactive Streaming Service Mesh Cloud native



Polyglot

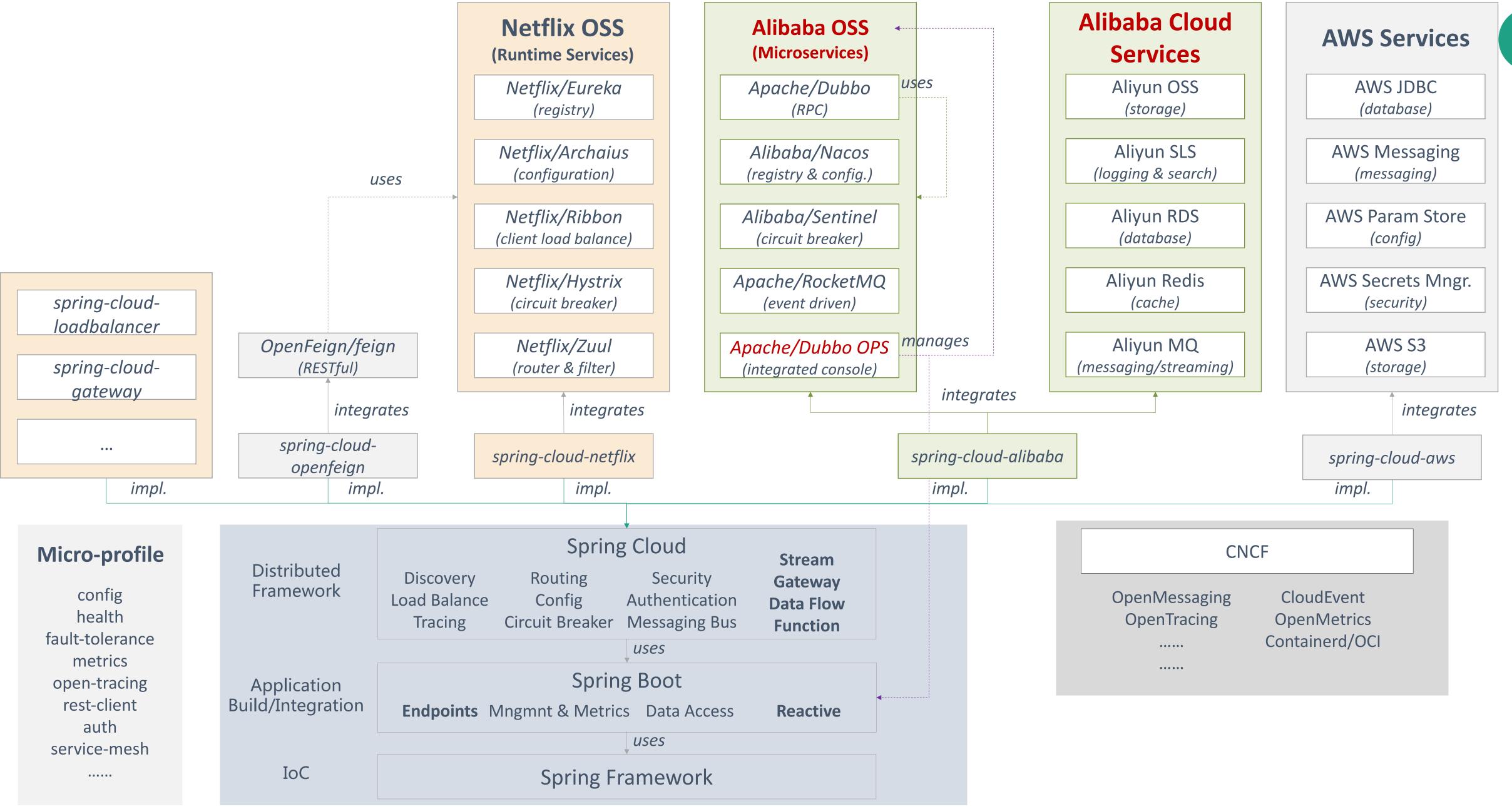
Multi-language SDK (nodejs, php, python, go...)

Multi-language Support

Current status

	Node.js	PHP	Python	Go
Service Registry	Zookeeper	Zookeeper	Zookeeper	ZooKeeper
Protocol	Native Dubbo	Native Dubbo	HTTP	HTTP
Serialization	hessian	hessian	JSON	JSON
As Consumer				
As Provider			X	X
Client side load balancing	Round Robin/Weighted/Consisten t Hash	Random		Random/Round Robin
Reliability	Circuit Breaker	Flow control	-	-

What is the relationship between Apache Dubbo and Spring Cloud?



dubbo.apache.org

Apache Dubbo Ecosystem Roadmap



dubbo.apache.org

Summary



Dubbo is more than a RPC framework

Upgrade to a microservice framework

定位升级到微服务框架



Apache Dubbo Ecosystem

Build 4 layer Ecosystem around Apache Dubbo

是围绕 Apache Dubbo 打造的微服务生态,是经过生产验证的微服务的最佳实践组合

4层体系,LO-L1专注rpc核心,L2专注微服务核心,L3围绕微服务周边打造丰富生态



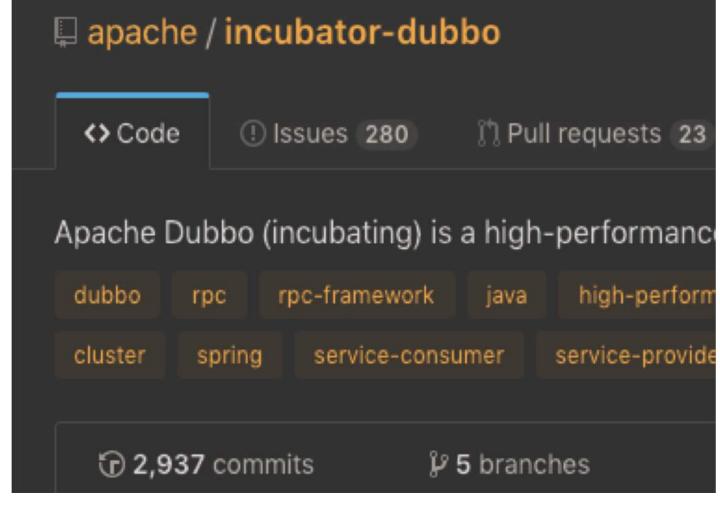
Dubbo loves Spring Cloud

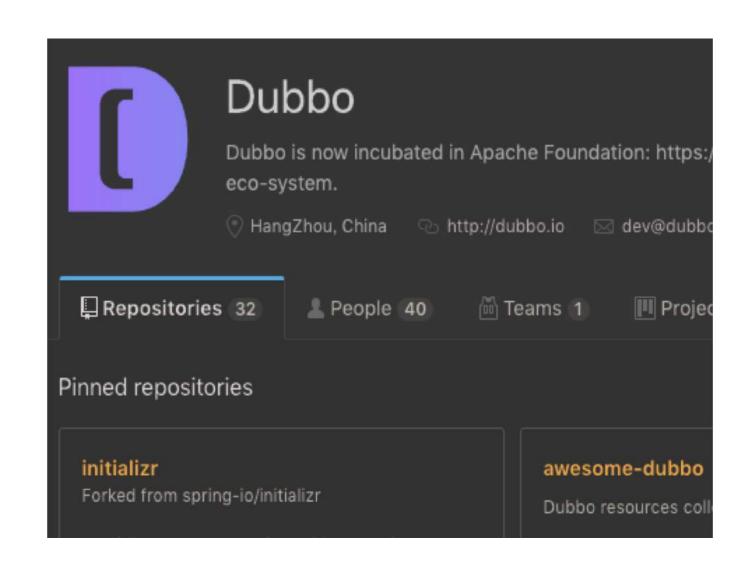
Dubbo Ecosystem components deeply integrate into Spring Cloud

Dubbo和Spring Cloud没有竞争关系,Apache Dubbo Ecosystem中的组件将深度集成到Spring Cloud体系当中

How to contribute







dubbo.apache.org

Documentation

Blog

Translation

github.com/apache/incubator-dubbo

File/Resolve issue (Triage/Labeling)

Pull request

Proposal/Discuss (dev@dubbo.apache.org)

Release vote

Samples

dubbo.apache.org

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github.com/dubbo

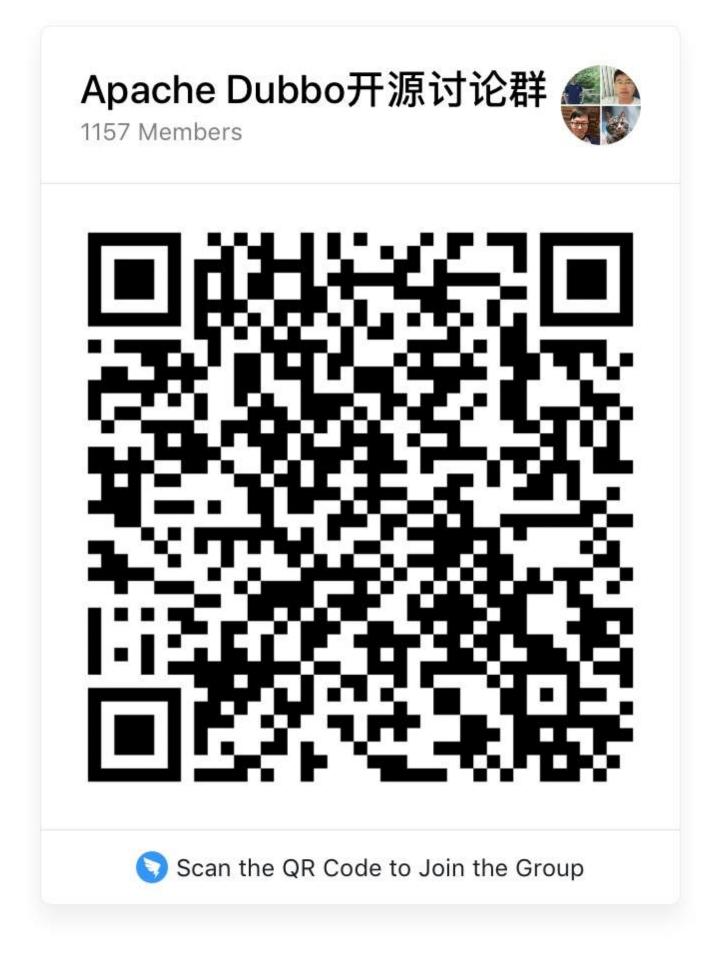
Multi-language SDK

Integration with other Ecosystem

components

Developer Tools

CONTACT US







Home

dubbo.apache.org



GitHub

github.com/apache/incubator-dubbo github.com/dubbo



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Join us: Apache Dubbo Guangzhou Meetup





Thank you!

Q&A