# 快速微服务化编程体验

部门名称:开源软件能力中心

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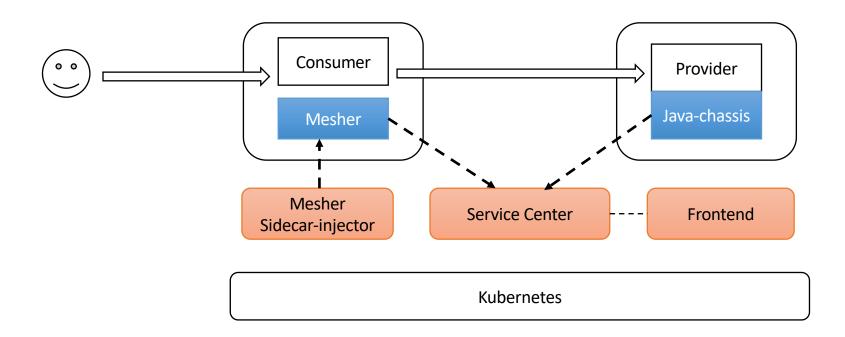




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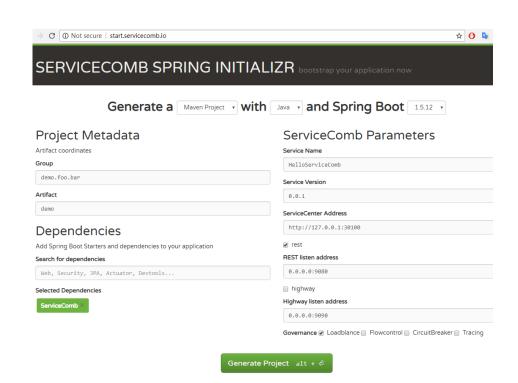
# 快速微服务开发案例





### Provider开发

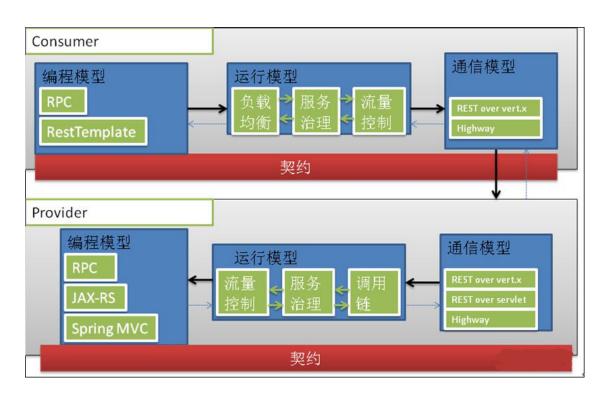
- 访问start.servicecomb.io,填入Group 和Artifact,下载模板工程。
- 解压模板工程,导入IDE (idea/eclipse等)
- 修改microservice.yaml文件中的注册中心 地址
- 使用SpringMVC方式开发应用
- 开发完成后打包成docker镜像





### Java-chassis SDK原理

- •Provider与Consumer具有完全一致的开发体验
- •通信模型与编程模型隔离,适应不同业务场景需求
- •运行模型支持灵活扩展,便于对接外部系统



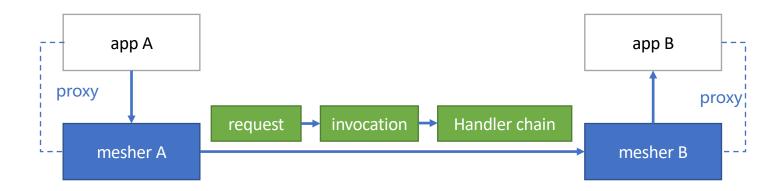


## Consumer开发

- 开发业务逻辑(不涉及SDK、依赖等)
- 构建Docker镜像



# 代码0侵入:Mesher基本工作原理





## 快速部署:sidecar-injector原理

#### **Kubernetes AdmissionWebhook**

#### 满足条件:

- Kubernetes 1.9 or later
- MutatingAdmissionWebhook, ValidatingAdmissionWebhook开启
- namespace, configmap, mutatingwebhookconfigurations访问权限

### 服务配置:

Pod Spec注解: sidecar.mesher.io/inject: yes

Namespace标签: kubectl label myns sidecar-injector=enabled

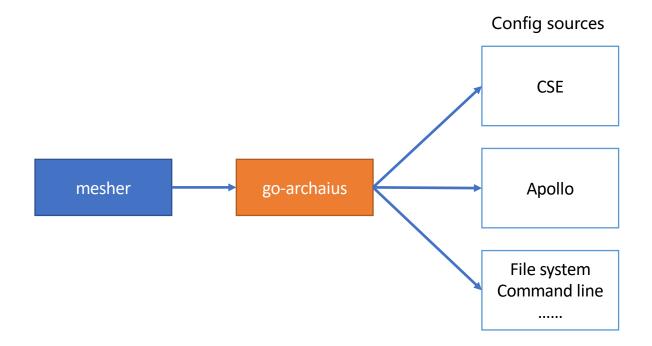
pod A

mesher A

sidecar-injector



# 灵活配置:go-archaius





### Kubernetes部署

### **Provider**

- deployment
- service

### Consumer

- deployment
- service

### **Apollo**

- deployment
- service

### sidecar-injector

- deployment
- Service
- Configmaps
- ...

### ServiceCenter

- deployment
- service
- ConfigMap

### **Frontend**

- deployment
- Service
- configmap



# 测试与验证

• 服务正常访问

• 验证微服务治理:熔断、限流等



# Thank you.

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