





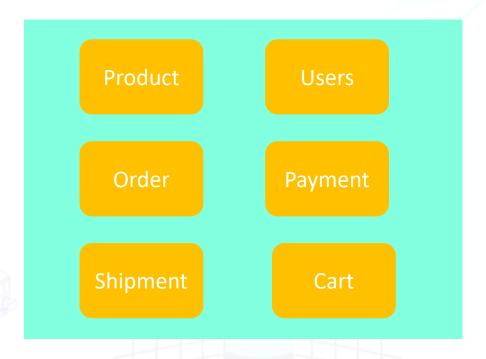
# Prerequisite for Microservices Tutorial

- Spring Boot
- Project using Monolithic Architecture
  - Smart Contact manager
  - Exam Portal
  - Blog Application



#### **Before Microservices**

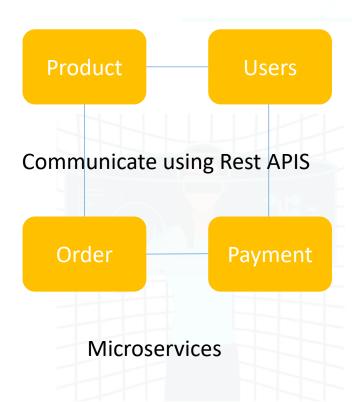
- Monolithic architecture: multiple components are combined in single large app.
- Single Code Base
- Deployed in single bundle
- Change in one service then whole app is redeployed
- Building problem: developers has to communicate
- Problem in scale
- Cumbersome over time

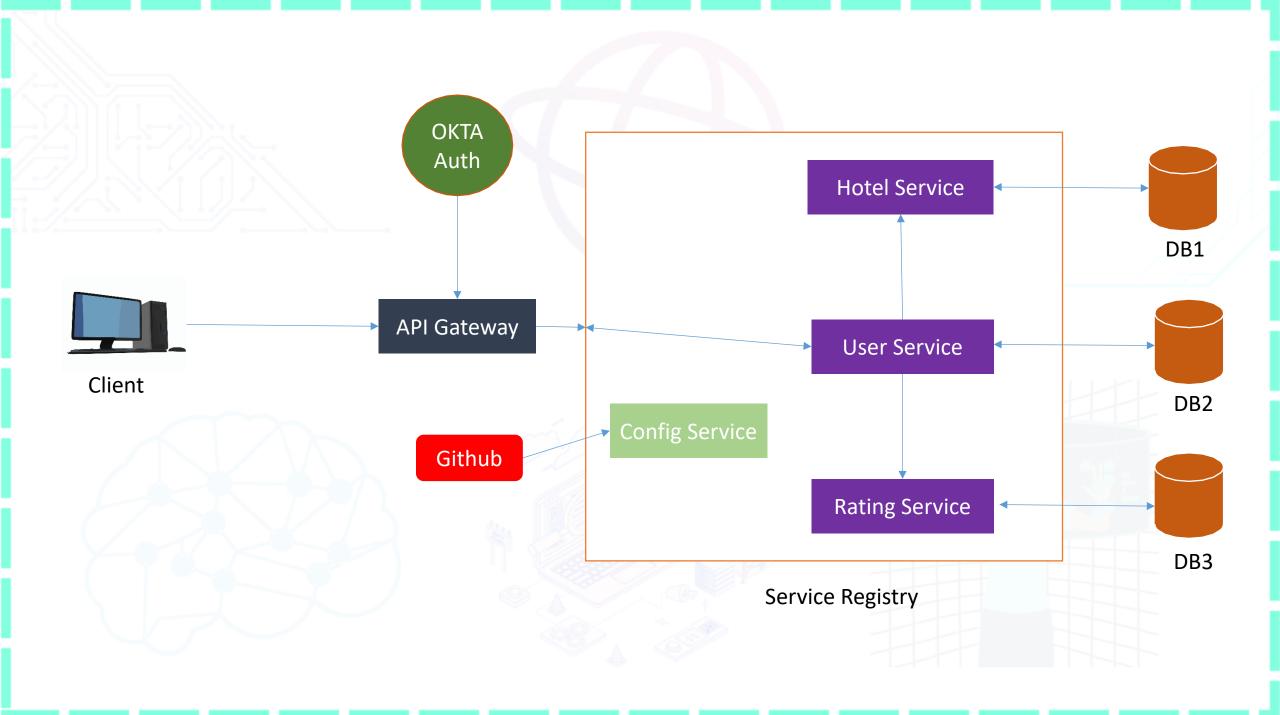


Application using Monolithic

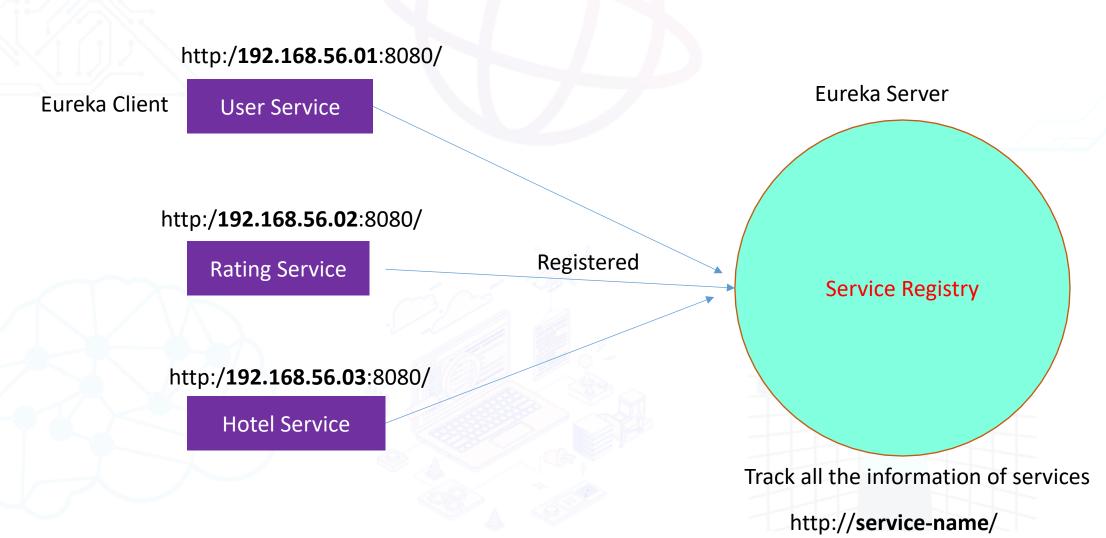
#### Microservices

- Large apps are divide into small parts
- Different codebase
- Each module managed independently
- Different tech stack
- Handling microservices is complex

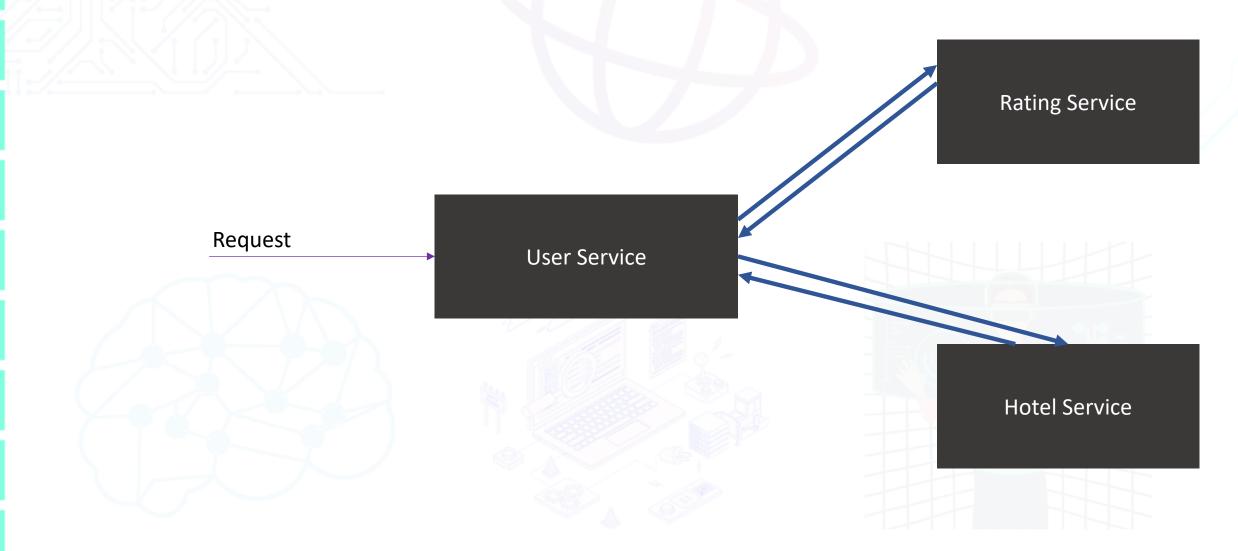


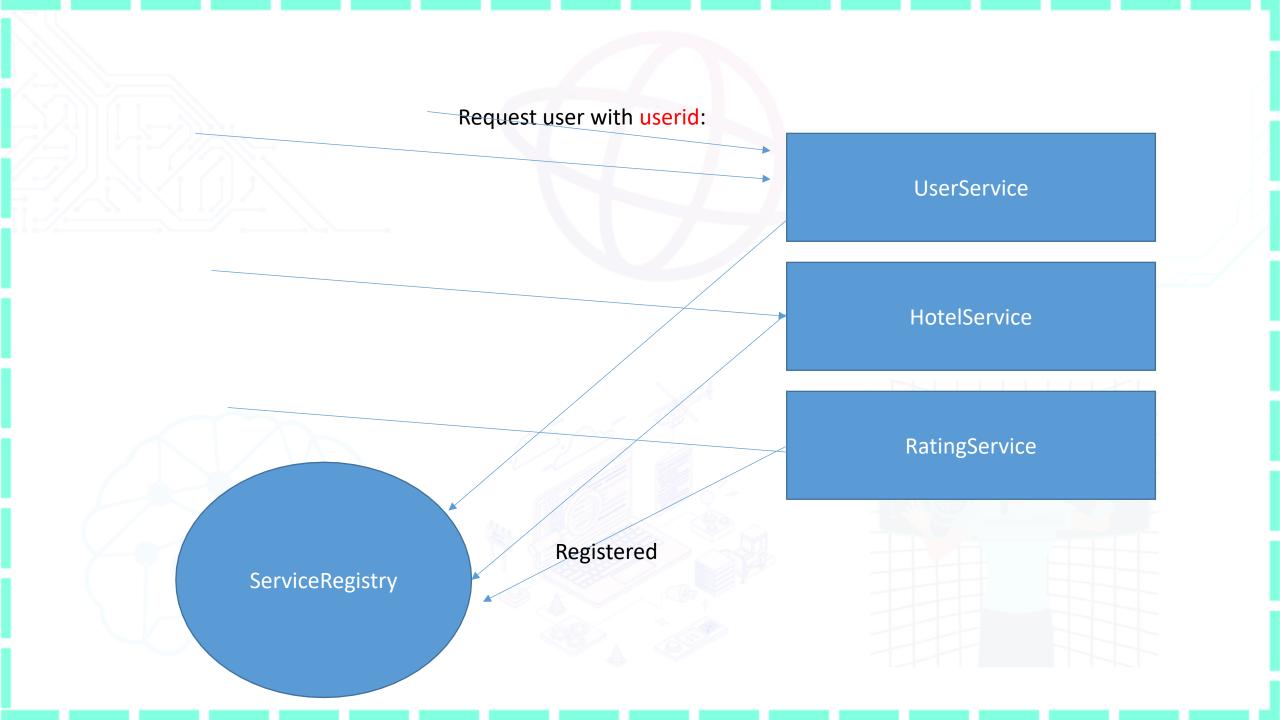


## **Service Registry**



## Lets start building microservices

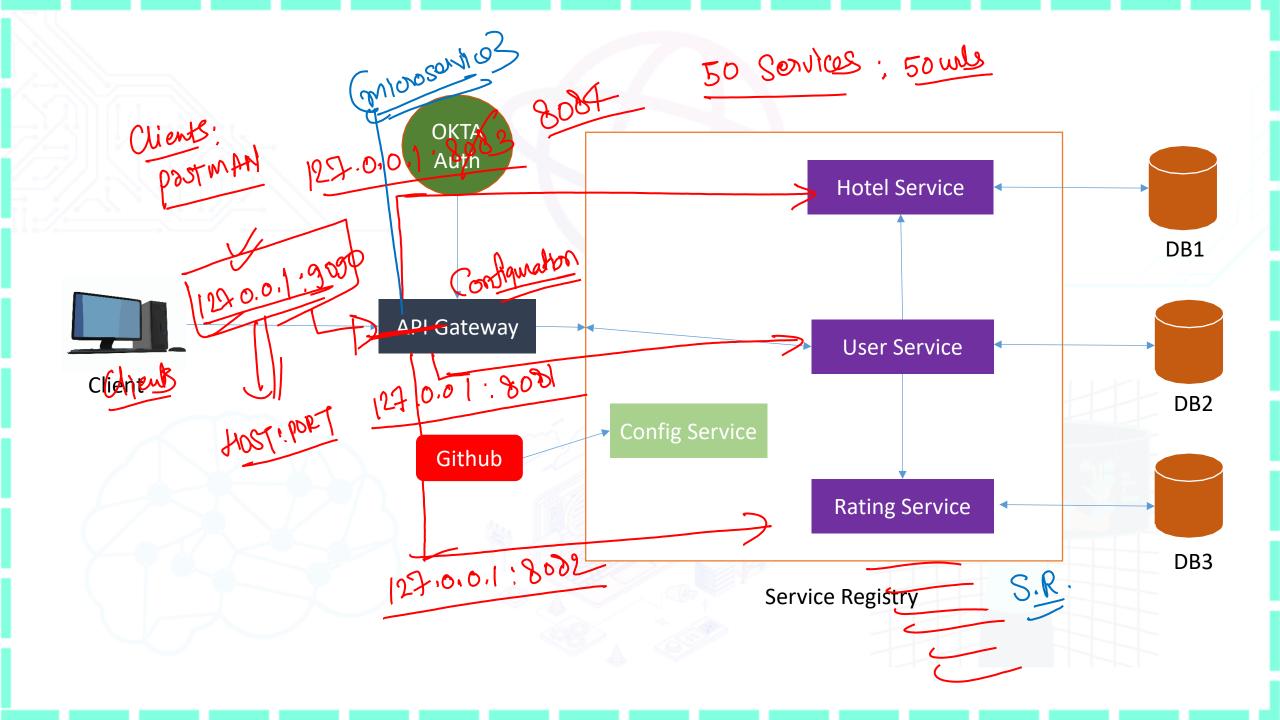


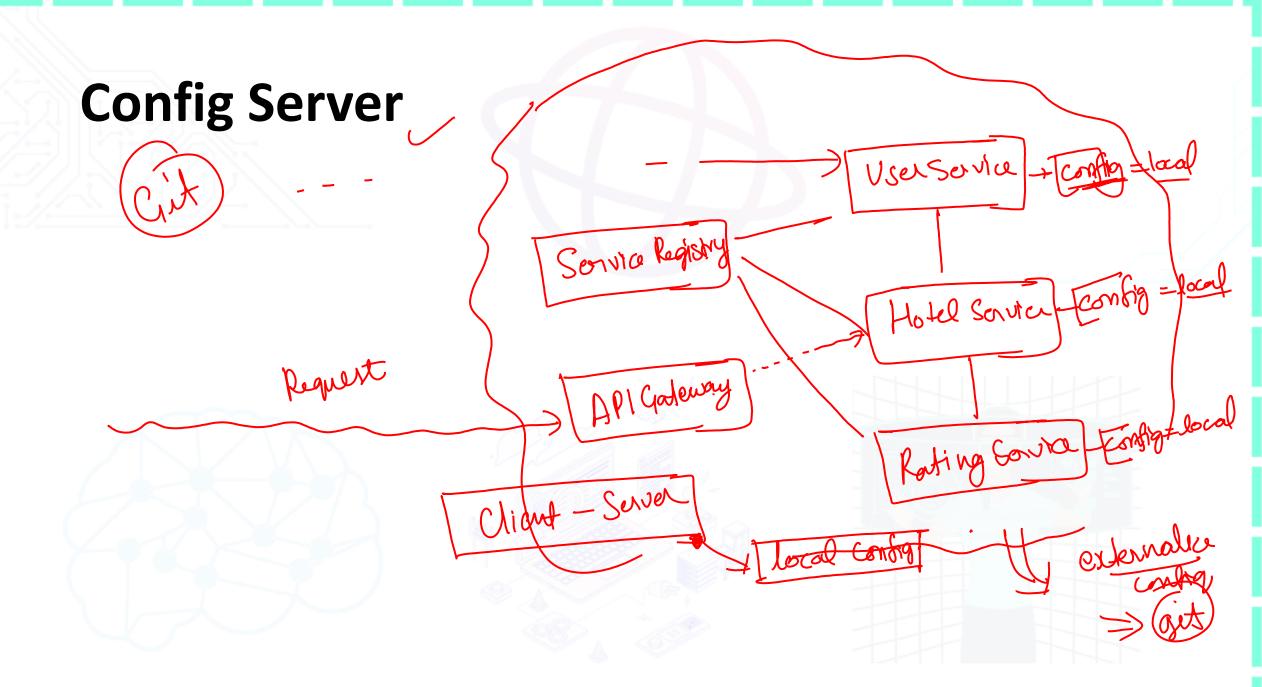


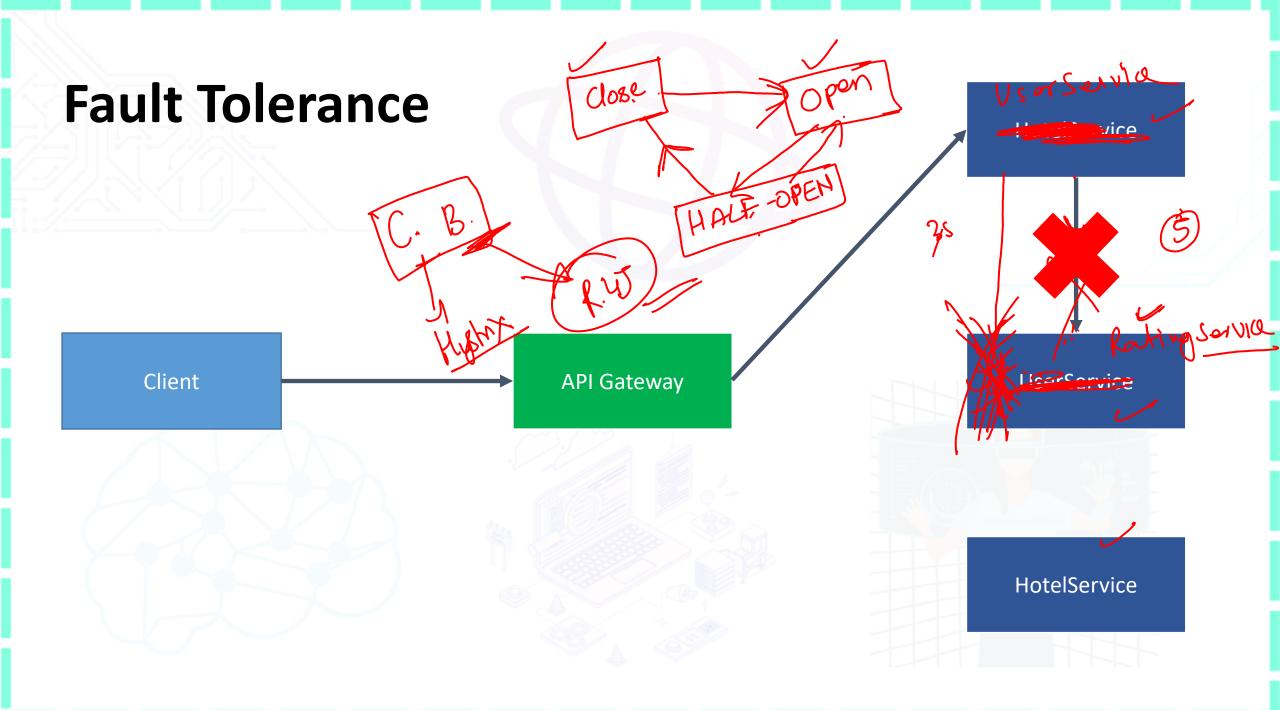
### **Feign Client**

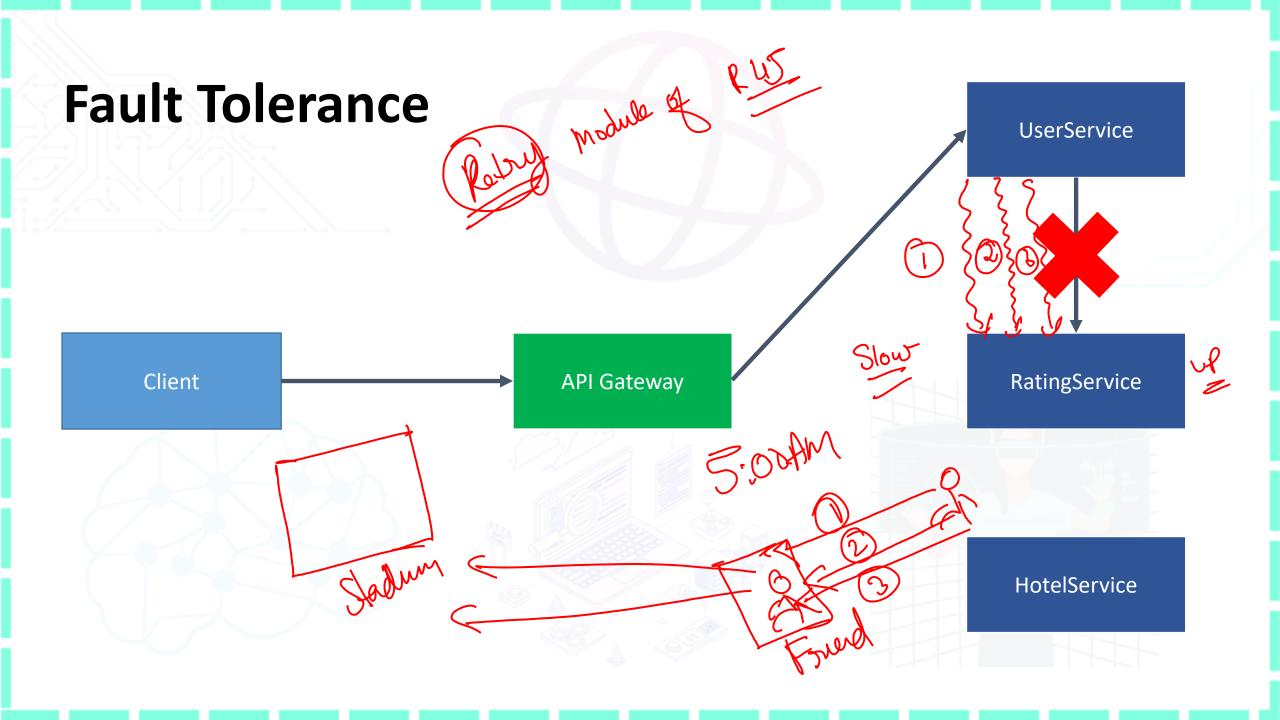
- The Feign is a declarative HTTP web client developed by Netflix.
- If you want to use Feign, create an interface, and annotate it.

1 User Service Joseph Ratinez Creat









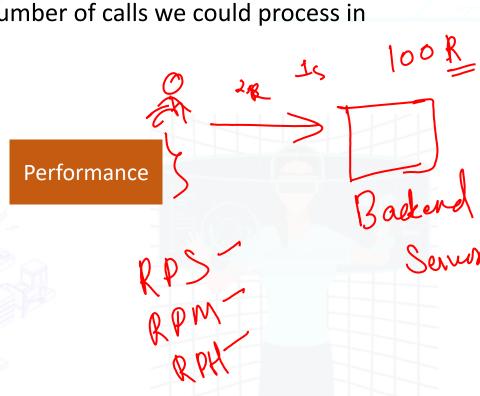
### **Rate Limiter**

This functionality allows limiting access to some service.

Rate Limiter make services highly available by limiting the number of calls we could process in

specific windows.





Public > dowd (AWS) -> Arryone **Security with OKTA** 7 Communication **OKTA** Misso Auth **Hotel Service** DB1 MIDO **API** Gateway **User Service** Client DB<sub>2</sub> Config mino Github **Rating Service** DB3 Service Registry

