



2017云栖大会·上海峰会
THE COMPUTING CONFERENCE



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云栖社区

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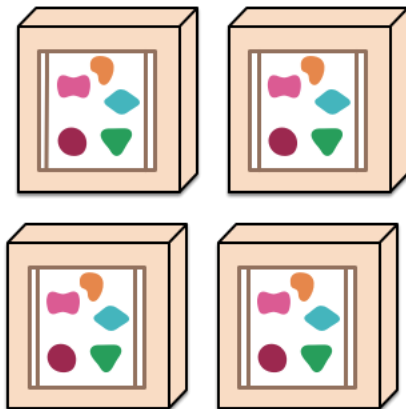
搭建基于SpringCloud的微服务应用

主讲人：李斌

A monolithic application puts all its functionality into a single process...



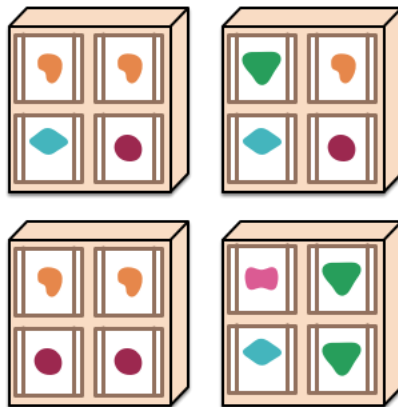
... and scales by replicating the monolith on multiple servers



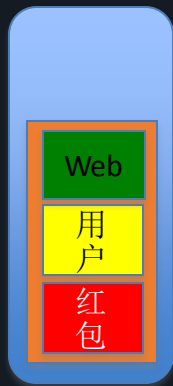
A microservices architecture puts each element of functionality into a separate service...



... and scales by distributing these services across servers, replicating as needed.



从单体应用到微服务

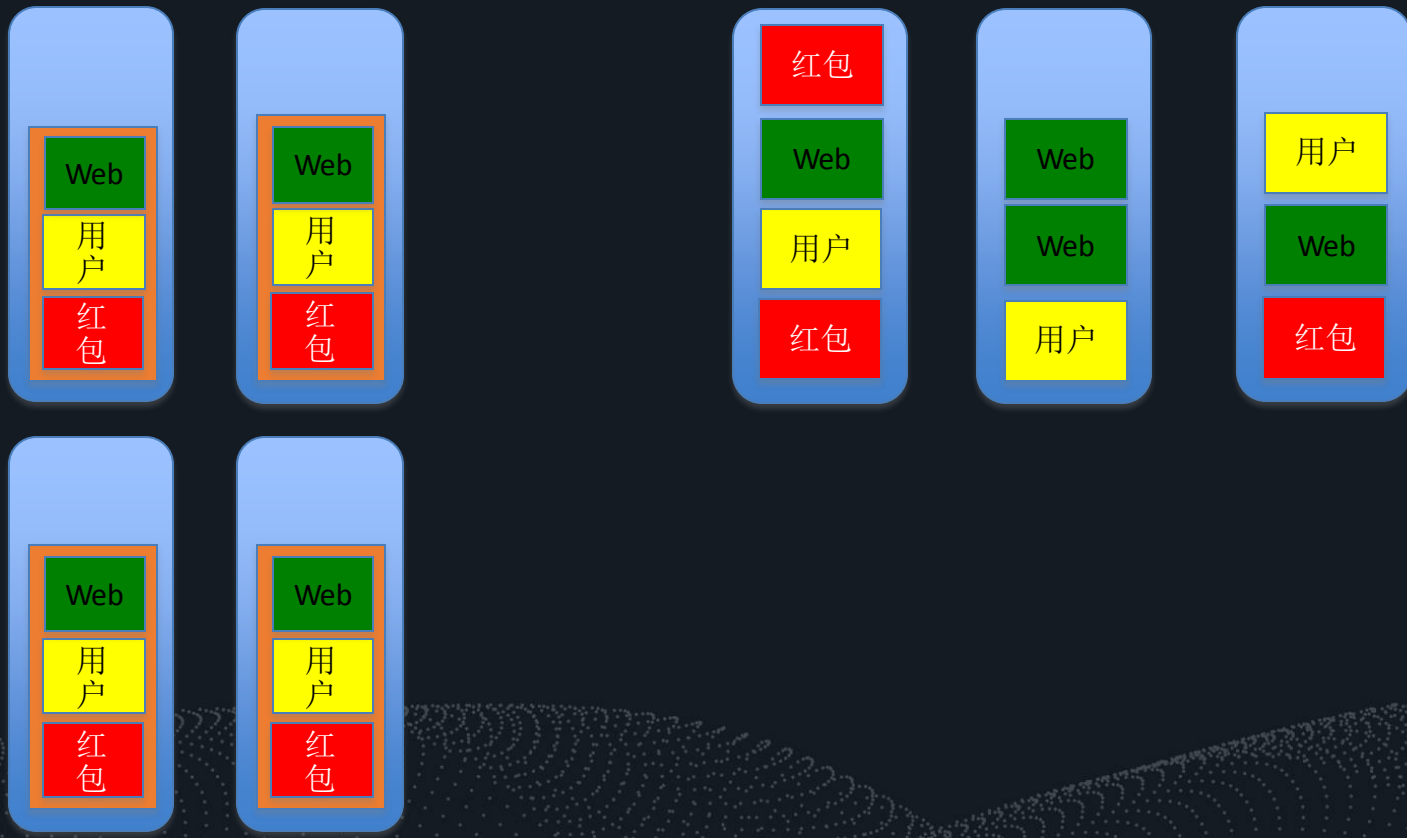


单体应用：模块之间内部调用

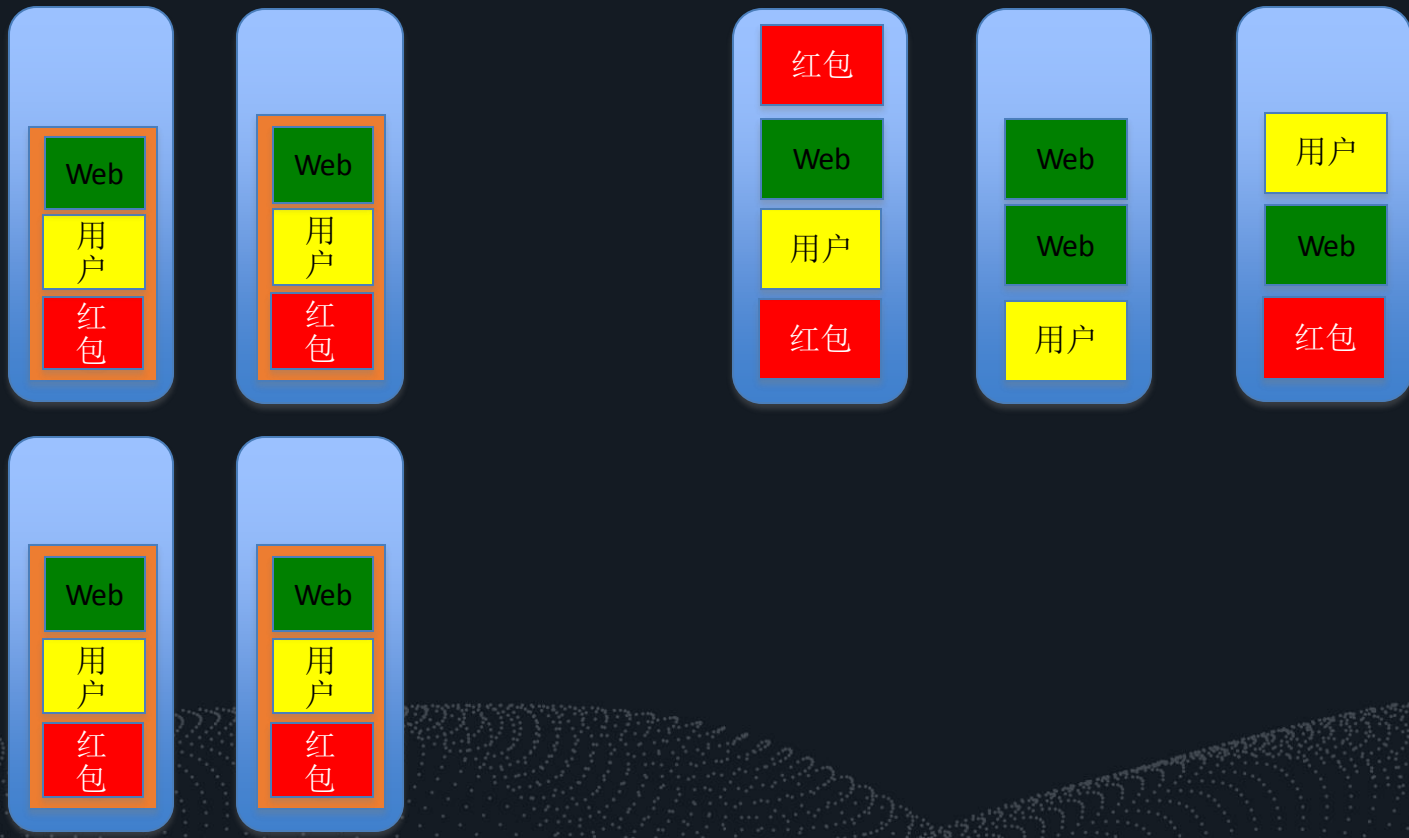


微服务应用：服务组合

水平扩展



服务更新





<http://www.starwars.com/>



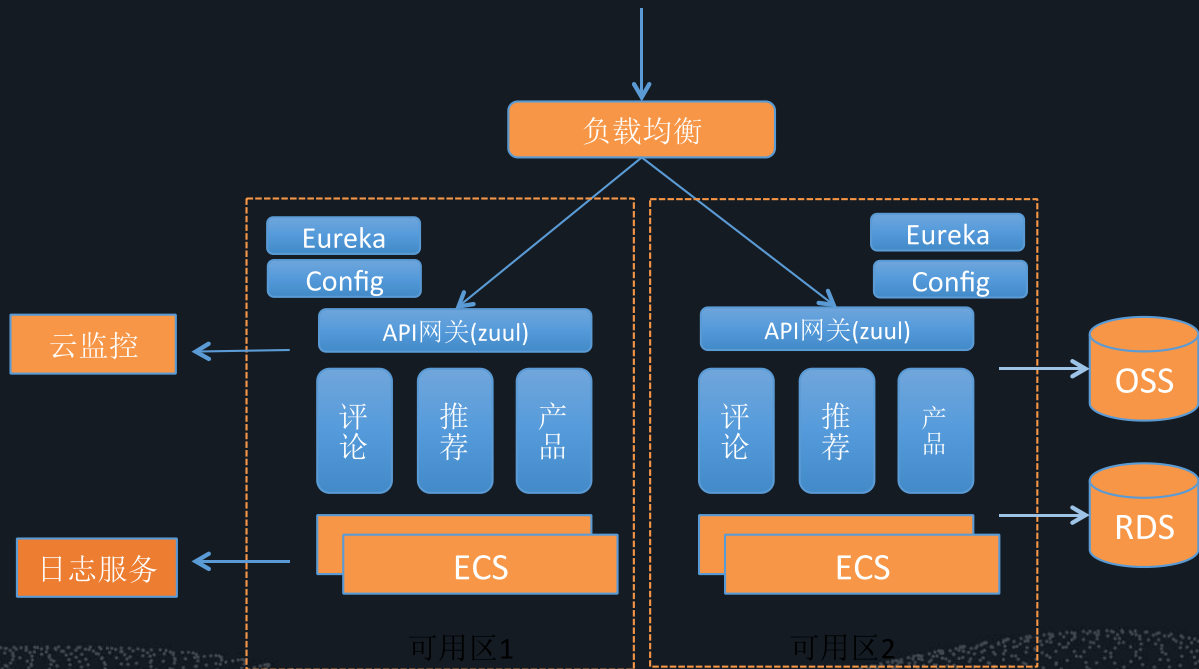
<http://www.mikebonnell.com/>

微服务架构支持

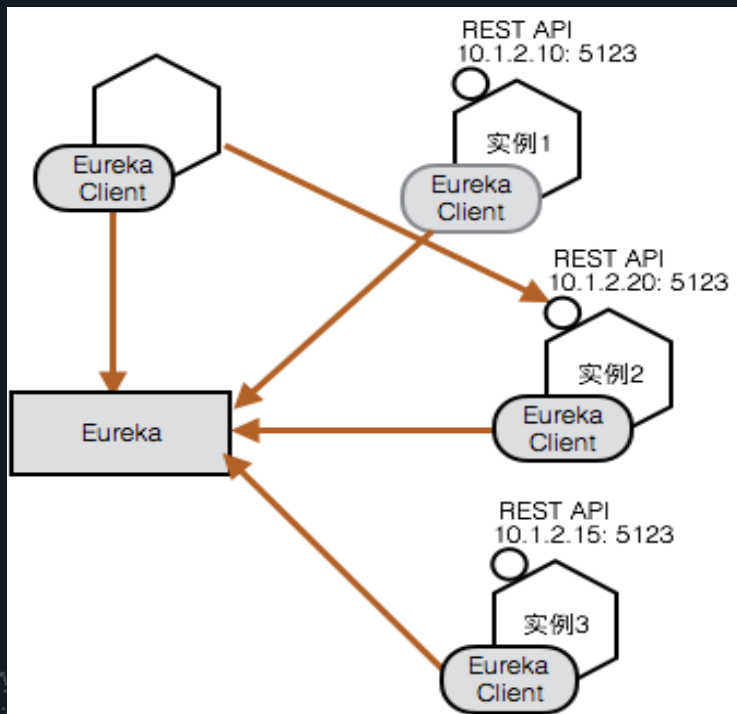


Spring Cloud

服务发现: Eureka
断路器: Hystrix
智能路由: Zuul
Rest API调用: Feign
配置管理: Config Server
等...

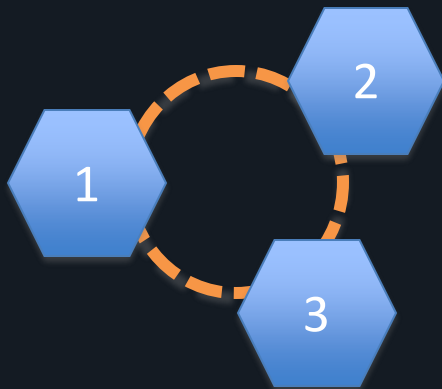


利用Eureka进行服务发现

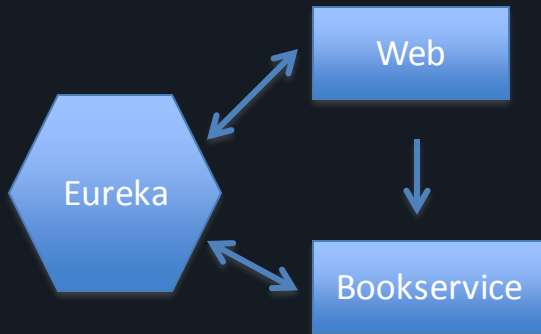


实践环节

高可用Eureka服务



服务注册与发现



(一) 高可用Eureka



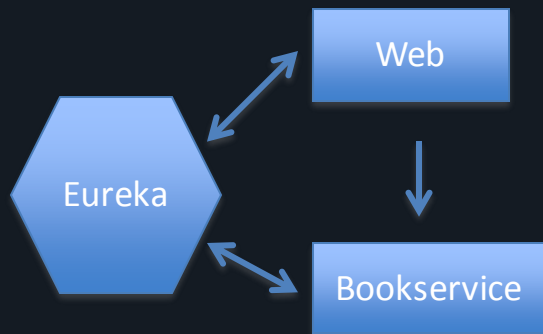
```
eureka-ha.yml
1 version: '3'
2 services:
3   eureka1:
4     image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eureka1server
5     networks:
6       default:
7         aliases:
8           - eureka
9     ports:
10      - "8761:8761"
11   environment:
12     - ADDITIONAL_EUREKA_SERVER_LIST=http://eureka2:8761/eureka/,http://eureka3:8761/eureka/
13   labels:
14     - "aliyun.logs.eureka=stdout"
15   eureka2:
16     image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eureka2server
17     networks:
18       default:
19         aliases:
20           - eureka
21     ports:
22      - "8762:8761"
23   environment:
24     - ADDITIONAL_EUREKA_SERVER_LIST=http://eureka1:8761/eureka/,http://eureka3:8761/eureka/
25   eureka3:
26     image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eureka3server
27     networks:
28       default:
29         aliases:
30           - eureka
31     ports:
32      - "8763:8761"
33   environment:
34     - ADDITIONAL_EUREKA_SERVER_LIST=http://eureka1:8761/eureka/,http://eureka2:8761/eureka/
35
```

<https://code.aliyun.com/zktest/springcloud/blob/master/compose/eureka-ha.yml>



```
version: '3'
services:
  eureka1:
    image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eureka1server
  ports:
    - "8761:8761"
  environment:
    - ADDITIONAL_EUREKA_SERVER_LIST=http://eureka2:8761/eureka/,http://eureka3:8761/eureka/
  eureka2:
    image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eureka2server
  networks:
    default:
  ...
```

(二) 服务注册与发现



```
feign-allimage.yaml  UNREGISTERED
feign-allimage.yaml x
1 version: '3'
2 services:
3   eureka:
4     image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eurekaserver
5     ports:
6       - "30006:8761"
7
8   web:
9     image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-webfeign
10    environment:
11      - EUREKA_SERVER_ADDRESS=http://eureka:8761/eureka
12    ports:
13      - "30005:8080"
14
15  bookservice:
16    image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-bookservice
17    environment:
18      - EUREKA_SERVER_ADDRESS=http://eureka:8761/eureka
```

Line 18, Column 56 Spaces: 2 YAML



version: '3'

services:

eureka:

image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-eurekaserver

ports:

- "30006:8761"

web:

image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-webfeign

environment:

- EUREKA_SERVER_ADDRESS=http://eureka:8761/eureka

ports:

- "30005:8080"

bookservice:

image: registry.cn-beijing.aliyuncs.com/microservice-springcloud/demo-bookservice

environment:

- EUREKA_SERVER_ADDRESS=http://eureka:8761/eureka

精彩内容，请访问阿里云容器团队博客

<https://yq.aliyun.com/teams/11>





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