19-3 服務探索與呼喚整合應用

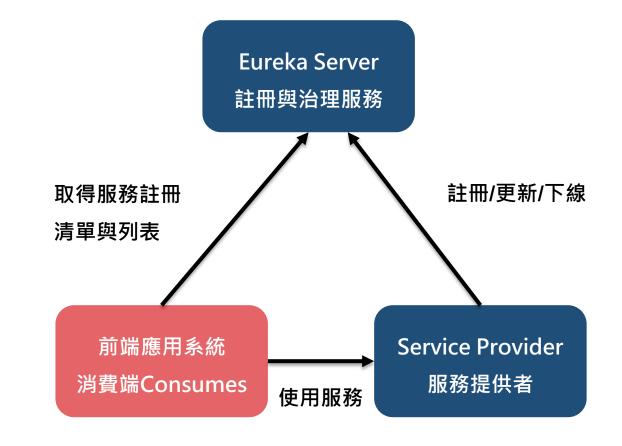


何謂Service Consumer-Client 網站系統或者服務

Thalle

一個前端系統,透過註冊在Eureka Server可探索註冊的服務清冊

Invoke服務清冊中的服務





Spring Boot Application-MVC網站系統探索Eureka Server



推劃一個MVC網站系統

配置Eureka Client API

Application.properties註冊Eureka可進行探索

```
<dependency>
   <groupId>org.springframework.boot
   <artifactId>spring-boot-starter-web</artifactId>
(/dependency>
       <!-- https://mvnrepository.com/artifact/org.springframework.cloud/sprin</p>
<dependency>
   <groupId>org.springframework.cloud
   <artifactId>spring-cloud-starter-eureka-server</artifactId>
   <version>1.4.7.RELEASE
(/dependency>
   <!-- https://mvnrepository.com/artifact/org.springframework.boot/spring-boo</p>
(dependency)
   <groupId>org.springframework.boot
   <artifactId>spring-boot-starter-thymeleaf</artifactId>
   <version>2.7.4</version>
```



Spring Boot Application-MVC網站application.properties



```
papplication.properties ×
1 | server.port=8081
2 spring.application.name=hello-client
3 eureka.client.serviceUrl.defaultZone=http://localhost:1111/eureka
4
```



MVC網站系統 RestTemplate Spring Bean配置



使用Configuration class配置

配置一個RestTemplate Bean

```
package com.khh.eurekaclientqapp;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.client.RestTemplate;

@Configuration
public class AppConfig {

    @Bean
    public RestTemplate restTemplate() {
        return new RestTemplate();
    }
}
```



MVC網站系統 Controller-Action設計



注入DiscoveryClient

• 用來探索註冊的Erueka中服務註冊清冊

注入RestTemplate

• 用來呼喚遠端服務取回服務資訊

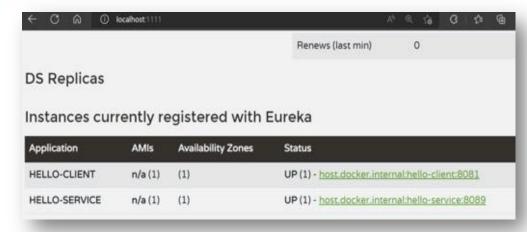
```
@Controller
public class EurekaConsumesController {
    //注入DiscoveryClient物件
    @Autowired
    private DiscoveryClient client;
    //注入RestTemplate
    @Autowired
    private RestTemplate restTemplate;
```

```
@RequestMapping(path="/getservice",method= {RequestMethod.GET})
public String showEurekaInformation(Model model) {
   try {
       //透過探索Erueka Server注冊服務清冊
       List<String> list = client.getServices();
       System.out.println("******** + list);
       //取出特定的服務資訊
       List<ServiceInstance> serverList = client.getInstances("HELLO-SERVICE");
       for (ServiceInstance element : serverList) {
           System.out.println(element.getServiceId() + "\t" + element.getHost()
           + "\t" + element.getPort() + "\t" + element.getUri());
           //狀態持續到View Page王
       model.addAttribute("services", serverList);
       String receiveMessage=
               restTemplate.getForObject(REST_URL + "/hello", String.class);
       System.out.println("呼喚服務:"+receiveMessage);
       model.addAttribute("message", receiveMessage);
```



Eureka Server-Provider/Consumer執行結果









總結:19-3 服務探索與呼喚整合應用

整合Eureka Server噢Service Provider註冊Eureka,另外撰寫一個前端MVC網站系統註冊Eureka Server探索服務與消費服務整體架構。您已經具有Spring Cloud的基礎能力之後,正式進入微服務架構領域。

