Spring Cloud初體驗



第十九單元大綱

- 19-1 服務治理Eureka Server配置與設定
- 19-2 Client Service註冊與管理
- 19-3 服務探索與呼喚整合應用
- 19-4 單元測驗



19—1服務治理Eureka Server 配置與設定

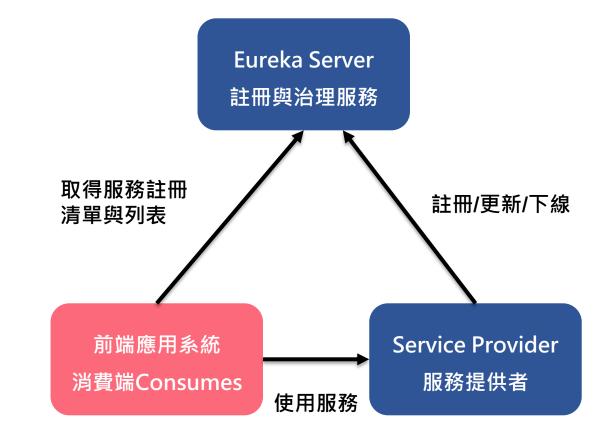
何謂Spring Cloud Eureka-服務治理

Праме

當前端Consumes指向後端服務,前端消費端變多, 後端服務為多個時,需要進行透過服務管理與註冊。

因應前端請求・取得註冊列表・進行服務呼喚設計

後端服務可以專注服務功能設計,註冊與治理交由 另一個服務即可





Spring Cloud Eureka



Spring Cloud Eureka 為 Spring Cloud Netflix微服務package的一部份子模組,是核心模塊之一

主要用來提供各個微服務的服務註冊(Register)以 及服務探索(Discovery)

Eureka主要組件

- Eureka Server提供Service註冊服務
- Eureka Client:提供Java Client,主要用來簡化與Eureka
 Server的互動。

ā eureka-client-1.10.17.jar ā eureka-core-1.10.17.jar - (





配置一個Eureka Server

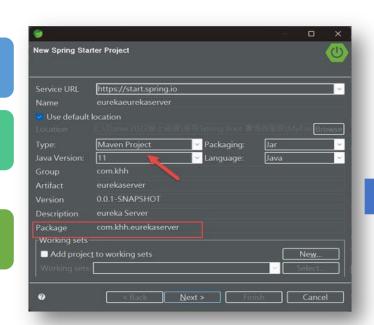


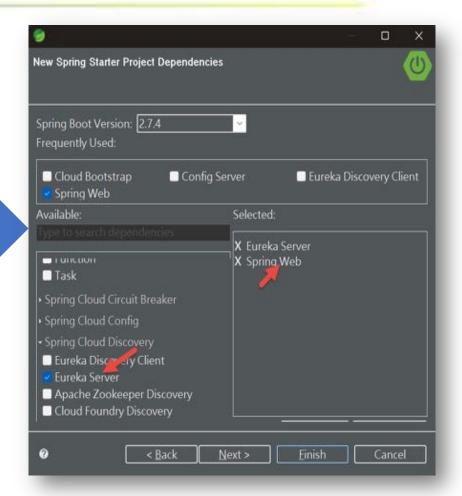
STS建立Spring Starter 專案

配置Spring Cloud Config

Config Server

配置Spring Web







Spring Boot Maven專案pom.xml配置



配置spring-cloud-starter-netflix-eureka-server

配置spring-boot-starter-web



Spring Boot Maven專案application.properties配置



配置server.port

• 配置Web(Eureaka Server)應用系統port

eureka.instance.hostname=localhost

• 配置server主機名稱

eureka.client.register-with-eureka=false

• 一般狀態下Eureaka主機無須註冊自己

eureka.client.fetch-registry=false

• 控制客戶端是否將嘗試連接到 Eureka 服務器以下載其他服務端點上的訊息

eureka.client.serviceUrl.defaultZone=http://\${eureka.instance.hostname}:\${server.port}/ericeureka



application.properties配置

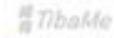


```
server.port=1112
eureka.instance.hostname=localhost
eureka.client.register-with-eureka=false
eureka.client.fetch-registry=false
#Eureka Server name
eureka.client.serviceUrl.defaultZone=http://${eureka.instance.hostname}:${server.port}/e
```

#Eureka Server name eureka.client.serviceUrl.defaultZone=http://\${eureka.instance.hostname}:\${server.port}/ericeureka



Boot 類別配置EnableEurekaServer



在專案Boot Class中配置@EnableEurekaServer

```
package com.khh.eurekaserver;
import org.springframework.boot.SpringApplication;
@SpringBootApplication
@EnableEurekaServer
public class EurekaeurekaserverApplication {
    public static void main(String[] args) {
        SpringApplication.run(EurekaeurekaserverApplication.class, args);
```



EnableEurekaServer啟動與測試



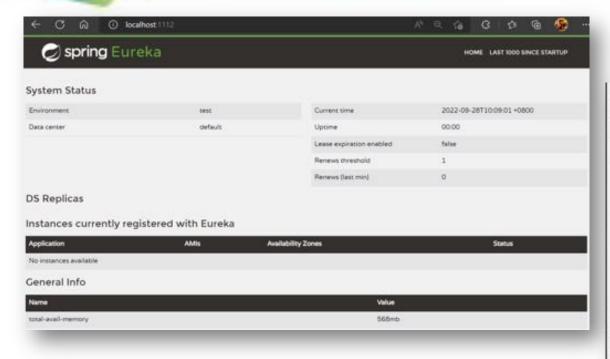
```
c.k.e.EurekaeurekaserverApplication
c.k.e.EurekaeurekaserverApplication
o.s.cloud.context.scope.GenericScope
o.s.b.w.embedded.tomcat.TomcatWebServer
o.apache.catalina.core.StandardService
org.apache.catalina.core.StandardEngine
: Starting EurekaeurekaserverApplication using Jav
c.k.e.EurekaeurekaserverApplication
: No active profile set, falling back to 1 default
: BeanFactory id=5ef2ebd4-4c2a-3ced-8e25-2274e622e
: Tomcat initialized with port(s): 1112 (http)
: Starting service [Tomcat]
: Starting Servlet engine: [Apache Tomcat/9.0.65]
```

```
: Registering application UNKNOWN with eureka with
o.s.c.n.e.s.EurekaServiceRegistry
o.s.c.n.e.server EurekaServerBootstrap
                                           isAws returned false
o.s.c.n.e.server.EurekaServerBootstrap
                                          : Initialized server context
c.n.e.r.PeerAwareInstanceRegistryImpl
                                           Got 1 instances from neighboring DS node
c.n.e.r.PeerAwareInstanceRegistryImpl
                                           Renew threshold is: 1
c.n.e.r.PeerAwareInstanceRegistryImpl
                                           Changing status to UP
e.s.EurekaServerInitializerConfiguration
                                           Started Eureka Server
                                           Tomcat started on port(s): 1112 (http) with cont
o.s.b.w.embedded.tomcat.TomcatWebServer
.s.c.n.e.s.EurekaAutoServiceRegistration
                                           Updating port to 1112
```



啟動瀏覽器進入Eureka Server入口





General Info			
Name		Value	
total-avail-memory		568mb	
num-of-cpus		20	
current-memory-usage		118mb (20%)	
server-uptime		00:00	
registered-replicas			
unavailable-replicas			
available-replicas			
nstance Info			
Name	Value		
ipAddr	192.168.0.100		
status	UP		



總結:19-1 服務治理Eureka Server配置與設定

將Spring Boot Web專案配置Spring Cloud Eureka Server環境,並且配置啟動EurekaServer組態。接下 來我們看看前端API Provider如何註冊Eureaka Server。

