Eureka 实践作业

服务注册中心

1. 在 IDEA 中创建一个 Spring Cloud 工程,引入 Eureka-Server 包, pom 文件整体如下:

```
<?xml version="1.0" encoding="UTF-8"?>
instance"
       xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-
4.0.0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <groupid>com.emest
   <artifactId>eureka-server</artifactId>
   <version>0.0.1-SNAPSHOT</version>
   <packaging>jar</packaging>
   <name>eurekaserver</name>
   <description>Demo project for Spring Boot</description>
   <!-- spring boot 的 parent 配置文件,有大部分 spring boot 需要用的 Jar 包 -->
   <parent>
      <groupId>org.springframework.boot
      <artifactId>spring-boot-starter-parent</artifactId>
      <version>1.5.3.RELEASE</version>
      <relativePath/> <!-- lookup parent from repository -->
   </parent>
   cproperties>
      <java.version>1.8</java.version>
   </properties>
   <dependencies>
      <dependency>
          <groupId>org.springframework.cloud
          <artifactId>spring-cloud-starter-eureka-server</artifactId>
      </dependency>
```

```
</dependencies>
    <dependencyManagement>
        <dependencies>
            <dependency>
                <groupId>org.springframework.cloud
                <artifactId>spring-cloud-dependencies</artifactId>
                <version>Camden.SR7
                <type>pom</type>
                <scope>import</scope>
            </dependency>
        </dependencies>
    </dependencyManagement>
    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>
```

2. application.yml 配置

```
#単例模式启动 Eureka Server

server:
    port: 8761 # 启动端口

eureka:
    client:
        registerWithEureka: false #false:不作为一个客户端注册到注册中心
        fetchRegistry: false #此客户端是否获取 eureka 服务器注册表上的注册信息
        serviceUrl:
        defaultZone: http://localhost:8761/eureka
```

配置解释:

- registerWithEureka:表示是否将自己注册到 Eureka Server,默认为 true。由于当前应用就是 Eureka Server,故而设置为 false。
 - fetchRegistry:表示是否从 Eureka Server 获取注册信息,默认为 true。因为这是一个单

点的 Eureka Server,不需要同步其他的 Eureka Server 节点的数据,故而设置为 false。

- defalseZone:设置与 Eureka Server 交互的地址,查询服务和注册服务都需要依赖这个地址。
- 3. 编写启动类,在启动类上添加@EnableEurekaServer注解,声明这是一个Eureka Server。

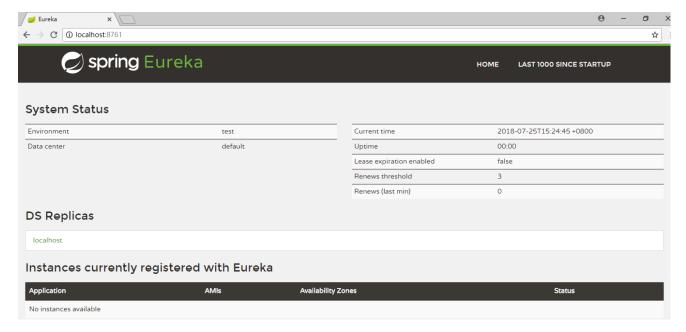
```
package com.emest;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;

@EnableEurekaServer
@SpringBootApplication
public class EurekaServerApplication {

   public static void main(String[] args) {

        SpringApplication.run(EurekaServerApplication.class, args);
    }
}
```

4. 访问 http://localhost:8761/, 如下图所示:



将微服务注册到 Eureka Server 上

1. 在 IDEA 中创建一个 Spring Cloud 工程, pom 文件整体如下:

```
<?xml version="1.0" encoding="UTF-8"?>
instance"
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.eureka
   <artifactId>application-service</artifactId>
   <version>0.0.1-SNAPSHOT</version>
   <packaging>jar</packaging>
   <name>service</name>
   <description>Demo project for Spring Boot</description>
   <parent>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-parent</artifactId>
       <version>1.5.3.RELEASE
       <relativePath/> <!-- lookup parent from repository -->
   </parent>
   cproperties>
       c.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
       <java.version>1.8</java.version>
   </properties>
   <dependencies>
       <dependency>
          <groupId>org.springframework.cloud
          <artifactId>spring-cloud-starter-eureka</artifactId>
       </dependency>
   </dependencies>
   <dependencyManagement>
       <dependencies>
          <dependency>
```

```
<groupId>org.springframework.cloud
                <artifactId>spring-cloud-dependencies</artifactId>
                <version>Camden.SR7
                <type>pom</type>
                <scope>import</scope>
            </dependency>
        </dependencies>
    </dependencyManagement>
    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>
```

2. application.yml 配置

```
# HTTP (Tomcat) port

server:
    port: 8082

spring:
    application:
    name: micro-service

eureka:
    client:
    service-url:
    defaultZone: http://localhost:8761/eureka/
```

3. 编写启动类,在启动类上添加@SpringBootApplication @EnableDiscoveryClient 注解,声明这

是一个 Eureka Client。

```
package com.eureka;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

@SpringBootApplication
```

```
@EnableDiscoveryClient
public class ServiceApplication {

   public static void main(String[] args) {

       SpringApplication.run(ServiceApplication.class, args);
   }
}
```

4. 启动后,重新访问 http://localhost:8761/,如下图所示,我们可以看到刚刚启动的服务已经注册到我们的服务注册中心中。

