

## 实际框架搭建问题汇总

参考([http://blog.csdn.net/qq\\_26562641/article/details/53421507](http://blog.csdn.net/qq_26562641/article/details/53421507))

1. 新创建一个spring-boot工程
- 2.

新建模块化的 maven 项目 ch12, 其 pom.xml 文件的主要部分如下。

(1) 使用<modules>标签来实现模块化:

```
<modules>
  <module>config</module>
  <module>discovery</module>
  <module>ui</module>
  <module>person</module>
  <module>some</module>
  <module>monitor</module>
</modules>
```

(2) 使用 spring-cloud-starter-parent 替代 spring-boot-starter-parent, 其具备 spring-boot-starter-parent 的同样功能并附加了 Spring Cloud 的依赖, 当前最新稳定版为 Angel.SR3:

```
<parent>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-parent</artifactId>
  <version>Angel.SR3</version>
  <relativePath/>
</parent>
```

```
<modelVersion>4.0.0</modelVersion>
<groupId>com.example</groupId>
<artifactId>demo</artifactId>
<version>0.0.1-SNAPSHOT</version>
<packaging>pom</packaging>
```

```
<name>demo</name>
<description>Demo project for Spring Boot</description>
<modules>
  <module>config</module>
  <module>discovery</module>
  <module>ui</module>
  <module>person</module>
  <module>some</module>
  <module>monitor</module>
</modules>
<parent>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-parent</artifactId>
  <version>Angel.SR3</version>
  <relativePath /> <!-- lookup parent from repository -->
</parent>
```

原来是jar的必须改成pom否则报错(TODO至于为什么, 目前尚不明确.)?可能与集成配置有关

<http://edu.51cto.com/course/7348.html>

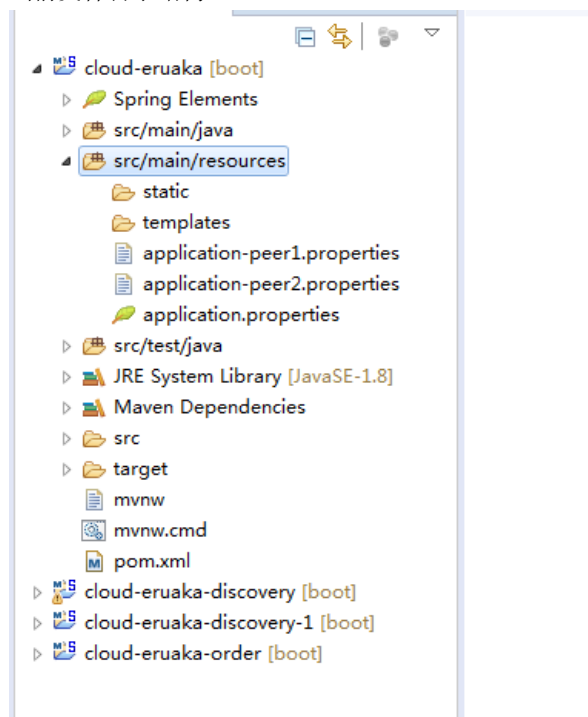
2. 在搭建的每个服务中, 主程序入口必须在顶层包里面, 该包里不能有与主服务并列地位的服务(接口controller)否则无法访问
3. 在该书中是通过Tomcat启动的, 与springboot启动略有不同。
4. 配置高可用注册中心时

主要难点：通过项目jar包的配置文件来启动不同的端口好的配置文件的服务（peer1, peer2）

TODO 目前只实现了通过命令行去分别启动不同配置文件的注册中心，并未达到自己注册自己的目的与书中结果不同需继续深挖。

通过命令行启动配置文件的方式启动程序

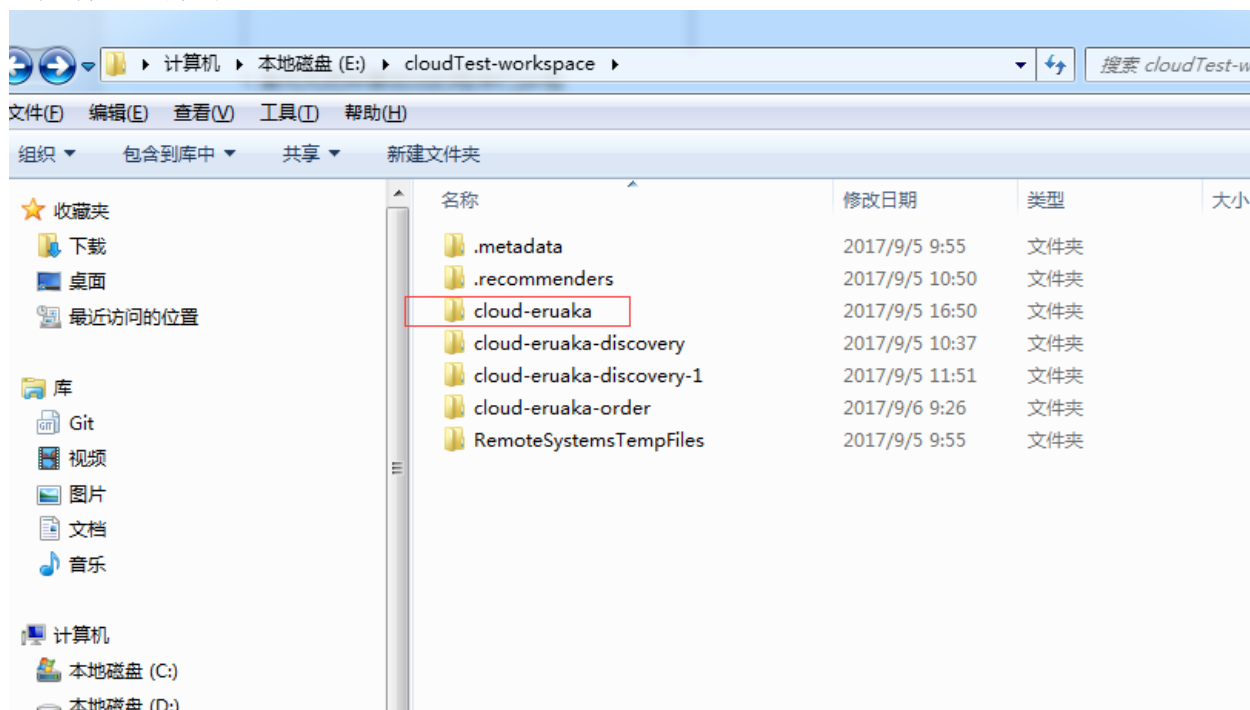
当前文件目录结构



1. 首先先把所要启动的程序打jar包

桌面+R 快捷键 打开运行窗口 输入cmd 打开控制台

切换到项目目录如下，



控制台此时切换到：

```
E:\cloudTest-workspace\cloud-eruaka>
```

根据 pom 的配置打jar

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <groupId>com.example</groupId>
6     <artifactId>cloud-eruka</artifactId>
7     <version>0.0.1-SNAPSHOT</version>
8     <packaging>jar</packaging>
9
10    <name>cloud-eruka</name>
11    <description>Demo project for Spring Boot</description>
12
13    <parent>
14        <groupId>org.springframework.boot</groupId>
15        <artifactId>spring-boot-starter-parent</artifactId>
16        <version>1.5.6.RELEASE</version>
17        <relativePath/> <!-- lookup parent from repository -->
18    </parent>
19
20    <properties>
21        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
22        <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
23        <java.version>1.8</java.version>
24        <spring-cloud.version>Dalston.SR3</spring-cloud.version>
25    </properties>
26
27    <dependencies>
28        <dependency>
29            <groupId>org.springframework.cloud</groupId>
30            <artifactId>spring-cloud-starter-eureka-server</artifactId>
31        </dependency>
32        <dependency>
33            <groupId>org.springframework.boot</groupId>
34            <artifactId>spring-boot-starter-web</artifactId>
35        </dependency>
36        <dependency>
37            <groupId>org.springframework.boot</groupId>
38            <artifactId>spring-boot-starter-test</artifactId>
39            <scope>test</scope>
40        </dependency>
41    </dependencies>
42
43    <dependencyManagement>
44        <dependencies>
45            <dependency>
46                <groupId>org.springframework.cloud</groupId>
47                <artifactId>spring-cloud-dependencies</artifactId>
48                <version>${spring-cloud.version}</version>
49                <type>pom</type>

```

E:\cloudTest-workspace\cloud-eruka>mvn package

成功后显示

```

2017-09-06 09:52:51.439 INFO 3308 --- [Thread-12] c.n.eureka.DefaultEurekaServerContext : Sh
2017-09-06 09:52:51.444 INFO 3308 --- [Thread-12] c.n.eureka.DefaultEurekaServerContext : Sh

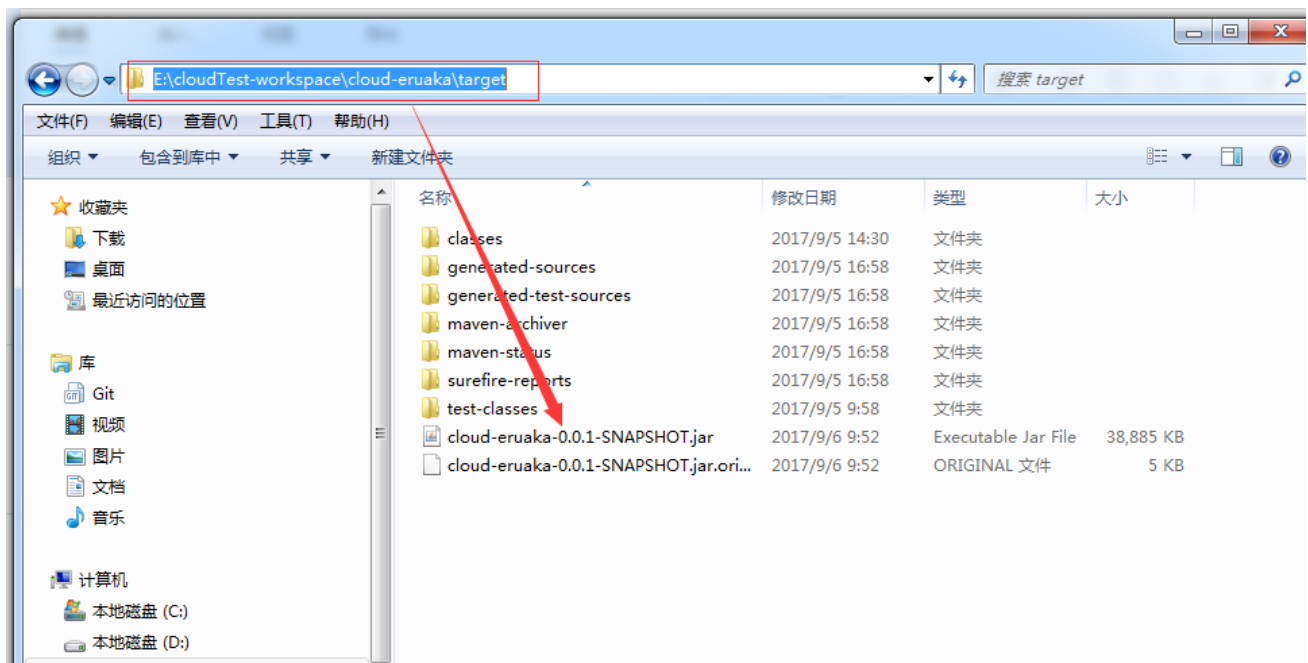
Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- maven-jar-plugin:2.6:jar (default-jar) @ cloud-eruka ---
[INFO] Building jar: E:\cloudTest-workspace\cloud-eruka\target\cloud-eruka-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:1.5.6.RELEASE:repackage (default) @ cloud-eruka ---
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 7.903 s
[INFO] Finished at: 2017-09-06T09:52:52+08:00
[INFO] Final Memory: 27M/376M
[INFO]
E:\cloudTest-workspace\cloud-eruka>

```

这时



target下会生成jar包就是该项目可运行的jar

切换到target目录下

```
E:\cloudTest-workspace\cloud-eruaka>cd target
E:\cloudTest-workspace\cloud-eruaka\target>java -jar cloud-eruaka-0.0.1-SNAPSHOT.jar
```

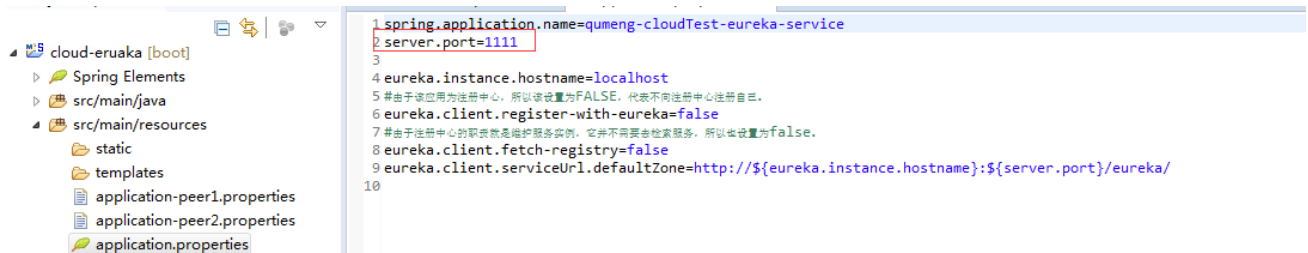
通过命令行 java 空格 -jar 空格 artifactId-version.jar 运行

即: java -jar cloud-eruaka-0.0.1-SNAPSHOT.jar

运行后:

```
2017-09-06 09:58:07.263 INFO 1512 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Located managed bean 'refreshScope': registering with JMX server as MBean [org.springframework.cloud
2017-09-06 09:58:07.272 INFO 1512 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Located managed bean 'configurationPropertiesRebinder': registering with JMX server as MBean [org.s
2017-09-06 09:58:07.276 INFO 1512 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Located managed bean 'refreshEndpoint': registering with JMX server as MBean [org.springframework.c
2017-09-06 09:58:07.384 INFO 1512 --- [main] o.s.c.support.DefaultLifecycleProcessor : Starting beans in phase 0
2017-09-06 09:58:07.385 INFO 1512 --- [main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application qumeng-cloudTest-eureka-service with eureka with status UP
2017-09-06 09:58:07.414 INFO 1512 --- [Thread-11] o.s.c.n.e.s.server.EurekaServerBootstrap : Setting the eureka configuration..
2017-09-06 09:58:07.414 INFO 1512 --- [Thread-11] o.s.c.n.e.s.server.EurekaServerBootstrap : Eureka data center value eureka.datacenter is not set, defaulting to default
2017-09-06 09:58:07.415 INFO 1512 --- [Thread-11] o.s.c.n.e.s.server.EurekaServerBootstrap : Eureka environment value eureka.environment is not set, defaulting to test
2017-09-06 09:58:07.424 INFO 1512 --- [Thread-11] o.s.c.n.e.s.server.EurekaServerBootstrap : isIdus returned false
2017-09-06 09:58:07.424 INFO 1512 --- [Thread-11] o.s.c.n.e.s.server.EurekaServerBootstrap : Initialized server context
2017-09-06 09:58:07.425 INFO 1512 --- [Thread-11] c.n.e.r.PeerAwareInstanceRegistryImpl : Got 1 instances from neighboring DS node
2017-09-06 09:58:07.425 INFO 1512 --- [Thread-11] c.n.e.r.PeerAwareInstanceRegistryImpl : Renew threshold is: 1
2017-09-06 09:58:07.425 INFO 1512 --- [Thread-11] c.n.e.r.PeerAwareInstanceRegistryImpl : Changing status to UP
2017-09-06 09:58:07.431 INFO 1512 --- [Thread-11] o.s.c.n.e.s.EurekaServerInitializerConfiguration : Started Eureka Server
2017-09-06 09:58:07.474 INFO 1512 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 1111 (http)
2017-09-06 09:58:07.475 INFO 1512 --- [main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 1111
2017-09-06 09:58:07.477 INFO 1512 --- [main] com.example.demo.CloudEruakaApplication : Started CloudEruakaApplication in 5.512 seconds (JVM running for 5.946)
```

默认运行的是



切换配置文件运行则需要停止服务

在控制台通过ctrl+c停止

```
2017-09-06 10:01:50.529 INFO 1512 --- [Thread-13] o.s.c.n.e.s.EurekaServiceRegistry : Unregistering application qumeng-cloudTest-eureka-ser
2017-09-06 10:01:50.530 INFO 1512 --- [Thread-13] com.netflix.discovery.DiscoveryClient : Shutting down DiscoveryClient ...
2017-09-06 10:01:50.530 INFO 1512 --- [Thread-13] com.netflix.discovery.DiscoveryClient : Completed shut down of DiscoveryClient
2017-09-06 10:01:50.535 INFO 1512 --- [Thread-13] o.s.c.support.DefaultLifecycleProcessor : Stopping beans in phase 0
2017-09-06 10:01:50.540 INFO 1512 --- [Thread-13] c.n.eureka.DefaultEurekaServerContext : Shutting down ...
2017-09-06 10:01:50.554 INFO 1512 --- [Thread-13] c.n.eureka.DefaultEurekaServerContext : Shut down
2017-09-06 10:01:50.560 INFO 1512 --- [Thread-13] o.s.j.e.a.AnnotationMBeanExporter : Unregistering JMX-exposed beans on shutdown
2017-09-06 10:01:50.562 INFO 1512 --- [Thread-13] o.s.j.e.a.AnnotationMBeanExporter : Unregistering JMX-exposed beans
```

然后运行

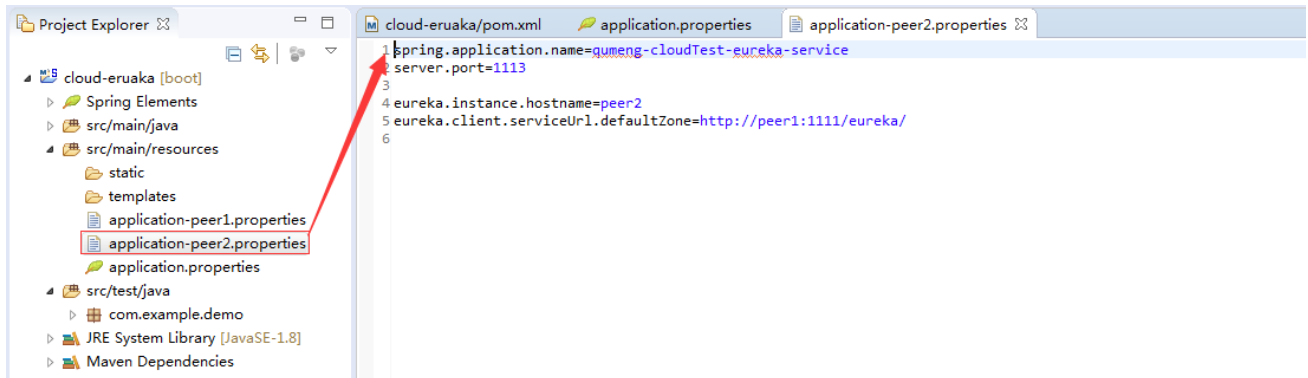
```
java -jar cloud-eruaka-0.0.1-SNAPSHOT.jar --spring.profiles.active=peer2
```

```
E:\cloudTest-workspace\cloud-eruaka\target> java -jar cloud-eruaka-0.0.1-SNAPSHOT.jar --spring.profiles.active=peer2.
结果
```

```

2017-09-06 10:03:37.555 INFO 6308 --- [main] o.s.j.e.a.AnnotationMBeanExporter : Located managed bean 'refreshEndpoint': registering with JMX server as MBean [org.springframework.jmx.support.DefaultLifecycleProcessor]
2017-09-06 10:03:37.700 INFO 6308 --- [main] o.s.c.support.DefaultLifecycleProcessor : Starting beans in phase 0
2017-09-06 10:03:37.701 INFO 6308 --- [main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application qumeng-cloudTest-eureka-service with eureka with status UP
2017-09-06 10:03:37.730 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Setting the eureka configuration...
2017-09-06 10:03:37.730 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Eureka data center value eureka.datacenter is not set, defaulting to default
2017-09-06 10:03:37.731 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Eureka environment value eureka.environment is not set, defaulting to test
2017-09-06 10:03:37.741 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : isAsus returned false
2017-09-06 10:03:37.742 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Initialized server context
2017-09-06 10:03:37.742 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Got 1 instances from neighboring DS node
2017-09-06 10:03:37.742 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Renew threshold is: 1
2017-09-06 10:03:37.742 INFO 6308 --- [Thread-11] o.s.c.n.e.s.EurekaServerBootstrap : Changing status to UP
2017-09-06 10:03:37.746 INFO 6308 --- [Thread-11] o.s.EurekaServerInitializerConfiguration : Started Eureka Server
2017-09-06 10:03:37.790 INFO 6308 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 1113 (http)
2017-09-06 10:03:37.791 INFO 6308 --- [main] o.s.c.n.e.s.EurekaServiceRegistry : Updating port to 1113
2017-09-06 10:03:37.795 INFO 6308 --- [main] com.example.demo.CloudEurekaApplication : Started CloudEurekaApplication in 6.104 seconds (JVM running for 6.538)

```

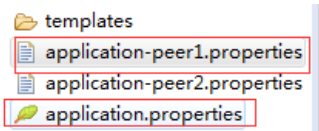


注意:

在通过运行 jar 来运行项目时，默认启动的配置文件是有顺序的

参考<http://www.leftso.com/blog/111.html>

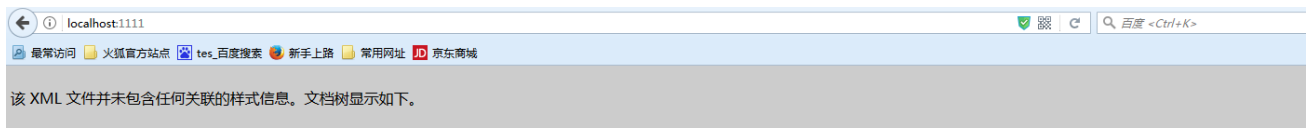
5. 在配置多个配置文件时端口号不要相同，否则，会出现未知的错误，比如样式丢失:



这两个标志的配置文件都用的端口号为 1111 (Eureka server)

此时访问 localhost:1111

则偶尔会出现:



```

- <com.netflix.eureka.util.StatusInfo>
- <generalStats>
  <environment>test</environment>
  <num-of-cpus>8</num-of-cpus>
  <total-avail-memory>592mb</total-avail-memory>
  <current-memory-usage>261mb (44%)</current-memory-usage>
  <server-upptime>00:00</server-upptime>
</generalStats>
- <applicationStats>
  <registered-replicas/>
  <available-replicas/>
  <unavailable-replicas/>
</applicationStats>
- <instanceInfo>
  <instanceId>pc-PC:qumeng-cloudTest-eureka-service:1111</instanceId>
  <hostname>localhost</hostname>
  <app>QUMENG-CLOUDTEST-EUREKA-SERVICE</app>
  <ipAddr>192.168.1.44</ipAddr>
  <status>UP</status>
  <overriddenstatus>UNKNOWN</overriddenstatus>
  <port enabled="true">1111</port>
  <securePort enabled="false">443</securePort>
  <countryId>1</countryId>
- <dataCenterInfo class="com.netflix.appinfo.InstanceInfo$DefaultDataCenterInfo">
  <name>MyOwn</name>
</dataCenterInfo>
- <leaseInfo>
  <renewalIntervalInSecs>30</renewalIntervalInSecs>
  <durationInSecs>90</durationInSecs>
  <registrationTimestamp>0</registrationTimestamp>
  <lastRenewalTimestamp>0</lastRenewalTimestamp>
  <evictionTimestamp>0</evictionTimestamp>
  <serviceUpTimestamp>0</serviceUpTimestamp>
</leaseInfo>
<metadata class="java.util.Collections$EmptyMap"/>
<homePageUrl>http://localhost:1111/</homePageUrl>
<statusPageUrl>http://localhost:1111/info</statusPageUrl>
<healthCheckUrl>http://localhost:1111/health</healthCheckUrl>

```

