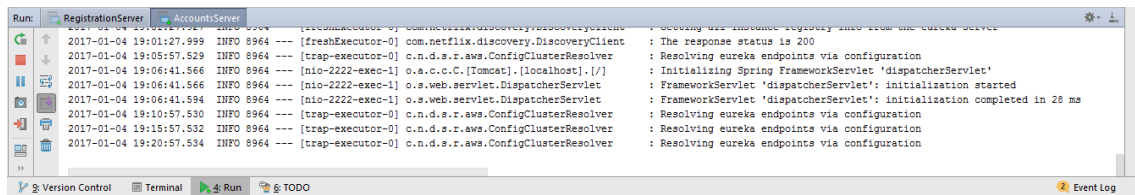


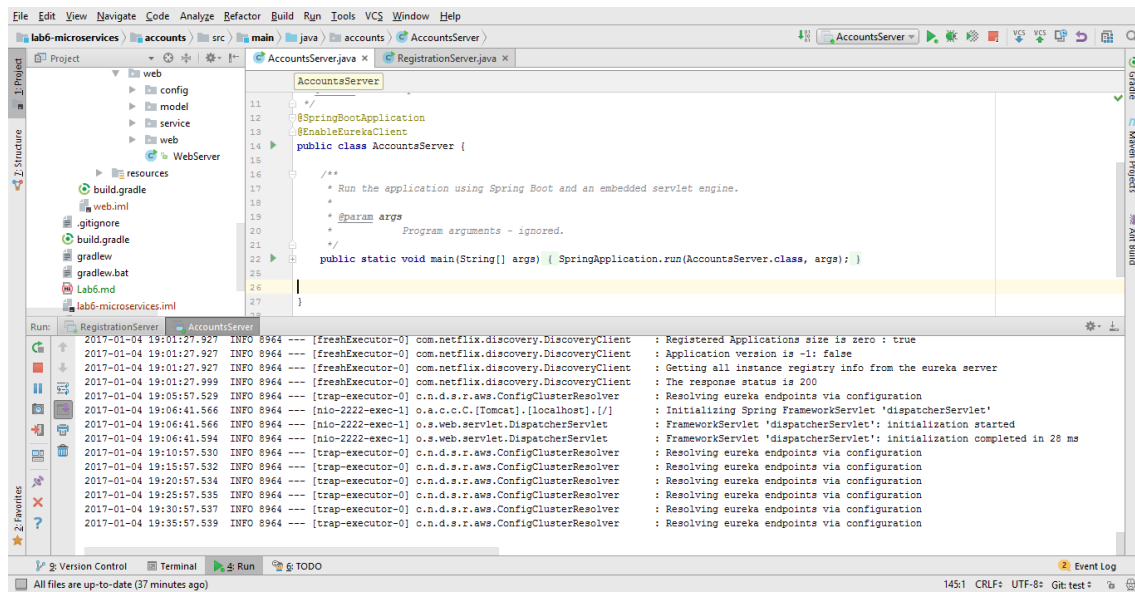
PUNTO 1 ➔ 2 servicios

Vista de los dos servicios corriendo



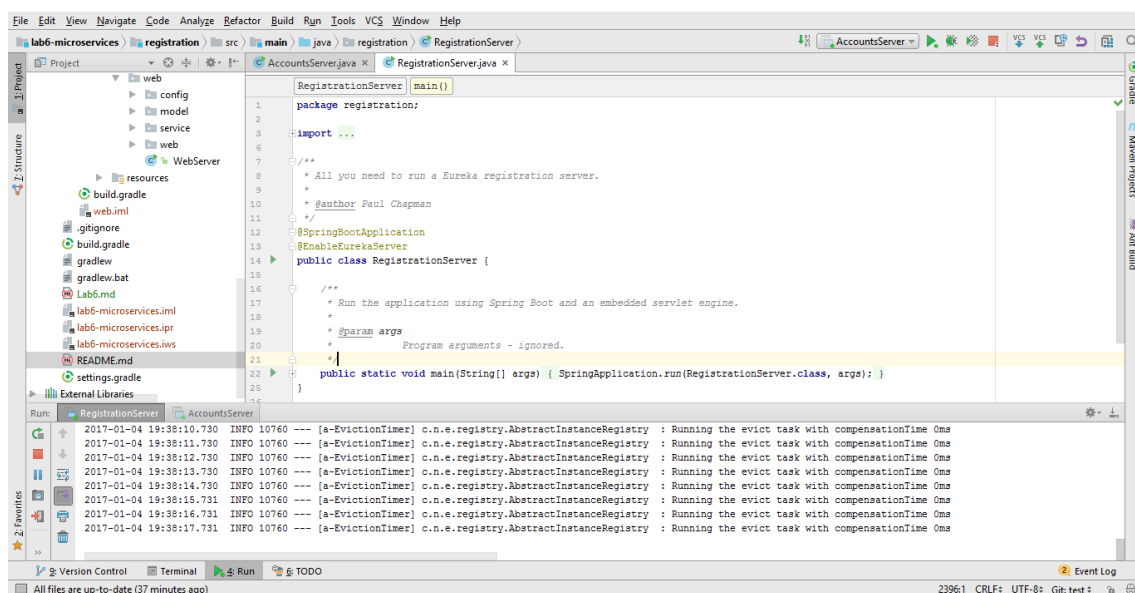
```
Run: RegistrationServer AccountsServer
2017-01-04 19:01:27.999 INFO 8964 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Getting all instance registry info from the eureka server
2017-01-04 19:05:57.529 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : The response status is 200
2017-01-04 19:06:41.566 INFO 8964 --- [nio-2222-exec-1] o.s.web.servlet.DispatcherServlet : Resolving eureka endpoints via configuration
2017-01-04 19:06:41.566 INFO 8964 --- [nio-2222-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Spring FrameworkServlet 'dispatcherServlet'
2017-01-04 19:06:41.594 INFO 8964 --- [nio-2222-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started
2017-01-04 19:10:57.530 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : FrameworkServlet 'dispatcherServlet': initialization completed in 28 ms
2017-01-04 19:15:57.532 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:20:57.533 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:25:57.533 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
```

Vista desde Account



```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
lab6-microservices accounts src main java accounts AccountsServer
AccountsServer.java
11 //
12 @SpringBootApplication
13 @EnableEurekaClient
14 public class AccountsServer {
15
16     /**
17      * Run the application using Spring Boot and an embedded servlet engine.
18      *
19      * @param args
20      * Program arguments - ignored.
21      */
22     public static void main(String[] args) { SpringApplication.run(AccountsServer.class, args); }
23
24 }
25
26
27
Run: RegistrationServer AccountsServer
2017-01-04 19:01:27.927 INFO 8964 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Registered Applications size is zero : true
2017-01-04 19:01:27.927 INFO 8964 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Application version is -1: false
2017-01-04 19:01:27.927 INFO 8964 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Getting all instance registry info from the eureka server
2017-01-04 19:01:27.999 INFO 8964 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : The response status is 200
2017-01-04 19:05:57.529 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:06:41.566 INFO 8964 --- [nio-2222-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Spring FrameworkServlet 'dispatcherServlet'
2017-01-04 19:06:41.566 INFO 8964 --- [nio-2222-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started
2017-01-04 19:10:57.530 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : FrameworkServlet 'dispatcherServlet': initialization completed in 28 ms
2017-01-04 19:15:57.532 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:20:57.533 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:25:57.533 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:30:57.537 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2017-01-04 19:35:57.539 INFO 8964 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
```

Vista desde el Server



```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
lab6-microservices registration src main java registration RegistrationServer
RegistrationServer.java
1 package registration;
2
3 import ...
4
5 /**
6  * All you need to run a Eureka registration server.
7  *
8  * @author Paul Chapman
9  */
10
11 @SpringBootApplication
12 @EnableEurekaServer
13 public class RegistrationServer {
14
15     /**
16      * Run the application using Spring Boot and an embedded servlet engine.
17      *
18      * @param args
19      * Program arguments - ignored.
20      */
21     public static void main(String[] args) { SpringApplication.run(RegistrationServer.class, args); }
22
23 }
24
25
26
Run: RegistrationServer AccountsServer
2017-01-04 19:38:10.730 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:11.730 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:12.730 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:13.730 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:14.730 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:15.731 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:16.731 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2017-01-04 19:38:17.731 INFO 10760 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
```

La vista desde la interfaz grafica

La del servidor Eureka, la del puerto 1111

System Status

Environment	test	Current time	2017-01-04T20:02:06 +0100
Data center	default	Uptime	00:00
		Lease expiration enabled	false
		Renews threshold	3
		Renews (last min)	0

DS Replicas

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
WEB-SERVICE	n/a (1)	(1)	UP (1) - 192.168.1.39:web-service:3333

General Info

Name	Value
total-avail-memory	324mb
environment	test
num-of-cpus	4
current-memory-usage	224mb (69%)

Y la del puerto 2222, la de accounts

Microservices Demo - Accounts Server

Accounts Server Microservice is running.

Spring Boot URLs

For those interested, Spring Boot provides RESTful URLs for interrogating your application (they return JSON format data):

- [The beans](#)
- [The environment](#)
- [Application health](#)
- [Application metrics](#)
- [Request call trace](#)

Pivotal Software, Inc. - July 2015

Aquí se aprecian los tres servicios

```

10  *
11  * @author Paul Chapman
12  */
13  @SpringBootApplication
14  @EnableEurekaClient
15  public class WebServer {
16
17      /**
18       * Run the application using Spring Boot and an embedded servlet engine.
19       *
20       * @param args
21       *      Program arguments - ignored.
22       */
23      public static void main(String[] args) { SpringApplication.run(WebServer.class, args); }
24
25  }

```

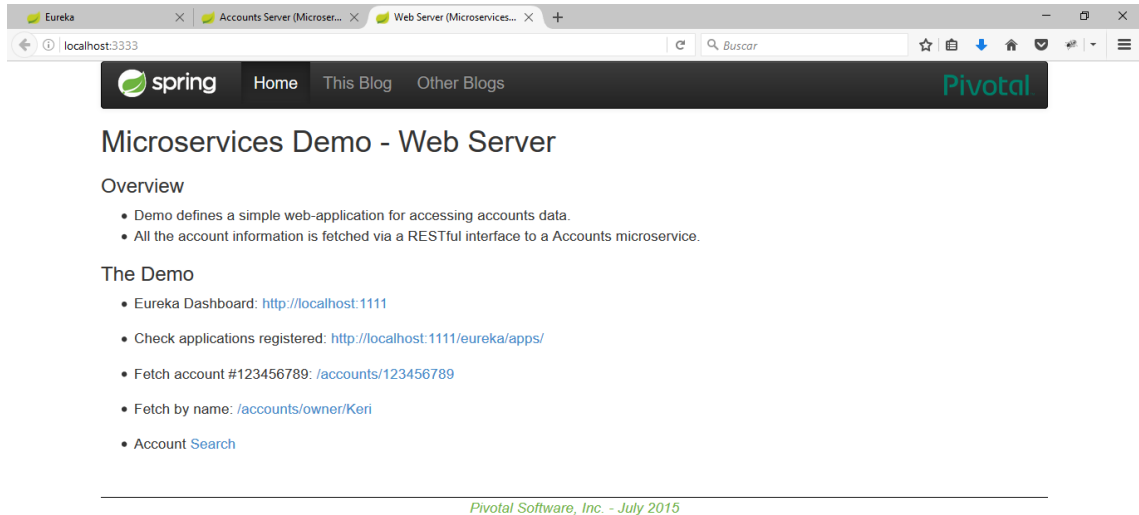
Run:

```

2017-01-04 19:47:09.846 INFO 9980 --- [main] com.netflix.discovery.DiscoveryClient : Starting nearcast executor: renew interval 19: 30
2017-01-04 19:47:09.849 INFO 9980 --- [main] c.n.d.discovery.InstanceInfoReplicator : InstanceInfoReplicator onDemand update allowed rate per min is 4
2017-01-04 19:47:09.852 INFO 9980 --- [main] com.netflix.discovery.DiscoveryClient : Discovery Client initialized at timestamp 148355629851 with initial instances
2017-01-04 19:47:09.854 INFO 9980 --- [main] c.n.e.EurekaDiscoveryClientConfiguration : Registering application web-service with eureka with status UP
2017-01-04 19:47:09.855 INFO 9980 --- [main] com.netflix.discovery.DiscoveryClient : Saw local status change event StatusChangeEvent [timestamp=14835562985, curre
2017-01-04 19:47:09.856 INFO 9980 --- [InfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_WEB-SERVICE/192.168.1.39:web-service:3333: registering service.
2017-01-04 19:47:09.858 INFO 9980 --- [InfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_WEB-SERVICE/192.168.1.39:web-service:3333: registration status
2017-01-04 19:47:10.020 INFO 9980 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 3333 (http)
2017-01-04 19:47:10.022 INFO 9980 --- [main] c.n.e.EurekaDiscoveryClientConfiguration : Updating port to 3333
2017-01-04 19:47:10.026 INFO 9980 --- [main] web.WebServer : Started WebServer in 9.264 seconds (JVM running for 9.947)
2017-01-04 19:47:22.916 INFO 9980 --- [nio-3333-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring FrameworkServlet 'dispatcherServlet'
2017-01-04 19:47:22.916 INFO 9980 --- [nio-3333-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization started
2017-01-04 19:47:22.940 INFO 9980 --- [nio-3333-exec-1] o.s.web.servlet.DispatcherServlet : FrameworkServlet 'dispatcherServlet': initialization completed in 24 ms

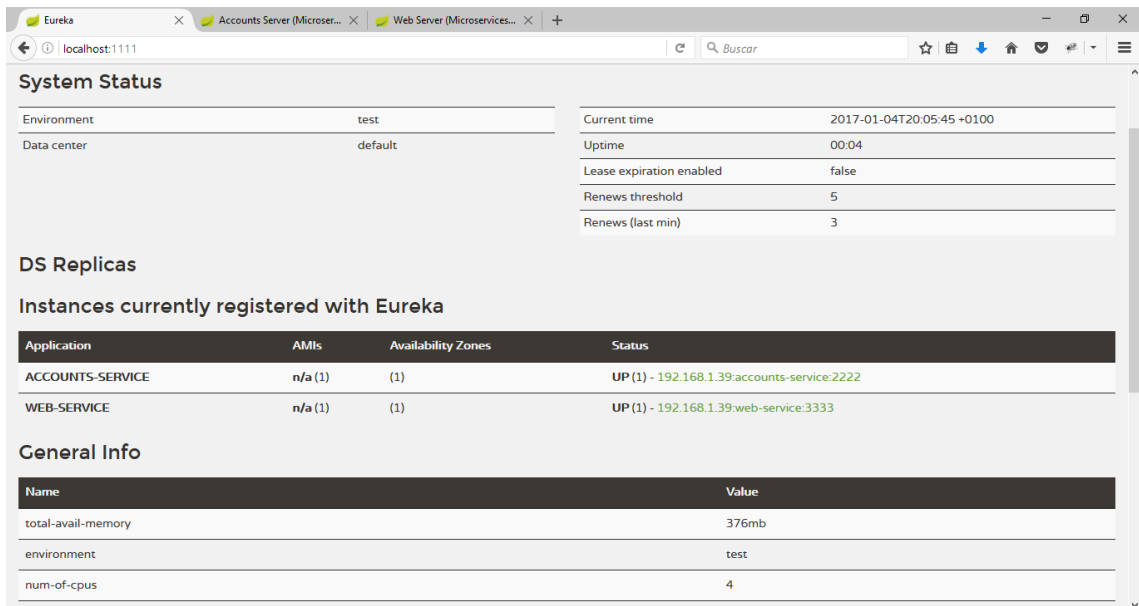
```

Y aquí se ve la web



PUNTO 2 ➔ Registrar 2 microservicios

Aquí se pueden ver dos servicios, el Accounts-service y Web-service



PUNTO 3 ➔ Correr otro servicio del puerto 4444

Eureka

Accounts Server (Microser...Web Server (Microservices...Accounts Server (Microser...+localhost:1111

Buscar

Lease expiration enabledfalse

Renews threshold6

Renews (last min)0

DS Replicas

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
ACCOUNTS-SERVICE	n/a (2)	(2)	UP (2) - 10.1.57.6:accounts-service:2222, 10.1.57.6:accounts-service:4444
WEB-SERVICE	n/a (1)	(1)	UP (1) - 10.1.57.6:web-service:3333

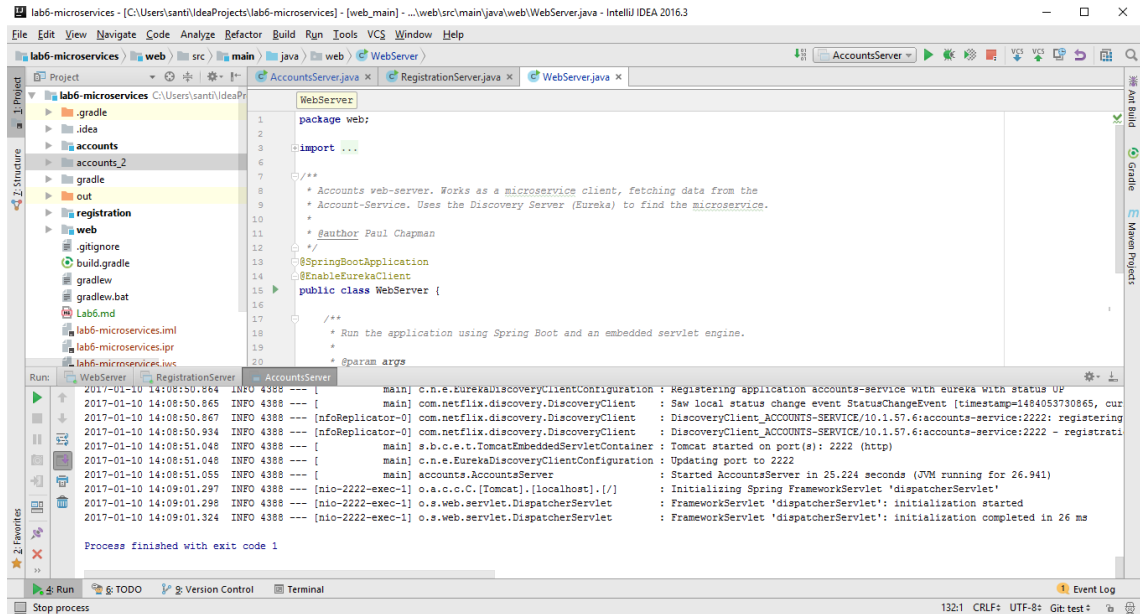
General Info

Name	Value
total-avail-memory	437mb
environment	test
num-of-cpus	4
current-memory-usage	120mb (27%)
server-uptime	00:00
registered-replicas	

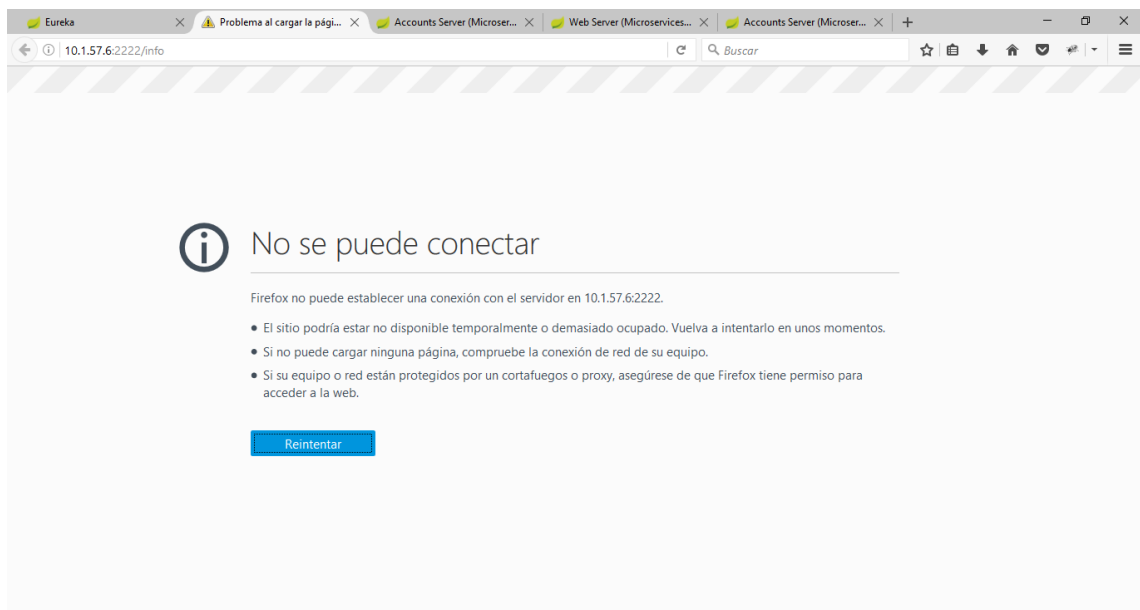
```
C:\WINDOWS\system32\cmd.exe - gradle bootrun
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:617) [na:1.8.0_101]
at java.lang.Thread.run(Thread.java:745) [na:1.8.0_101]
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Disable delta proper
ty : false
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Single vip registry
refresh property : null
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Force full registry
fetch : false
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Application is null
: false
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Registered Applicati
ons size is zero : true
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Application version
is -1: true
2017-01-10 14:08:46.224 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : Getting all instance
registry info from the eureka server
2017-01-10 14:08:46.229 INFO 5200 --- [tbeatExecutor-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_ACCO
UNTS-SERVICE/10.1.57.6:accounts-service:4444 - Re-registering apps/ACCOUNTS-SERVICE
2017-01-10 14:08:46.230 INFO 5200 --- [tbeatExecutor-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_ACCO
UNTS-SERVICE/10.1.57.6:accounts-service:4444: registering service...
2017-01-10 14:08:46.327 INFO 5200 --- [tbeatExecutor-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_ACCO
UNTS-SERVICE/10.1.57.6:accounts-service:4444 - registration status: 204
2017-01-10 14:08:46.438 INFO 5200 --- [freshExecutor-0] com.netflix.discovery.DiscoveryClient : The response status
is 200
2017-01-10 14:08:48.392 INFO 5200 --- [nfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_ACCO
UNTS-SERVICE/10.1.57.6:accounts-service:4444: registering service...
2017-01-10 14:08:48.433 INFO 5200 --- [nfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_ACCO
UNTS-SERVICE/10.1.57.6:accounts-service:4444 - registration status: 204
> Building 80% > :accounts 2:bootRun
```

PUNTO 4 ➡

Se elimina el Account del puerto 2222



Se elimina y se ve que o tiene respuesta



Lo que sucede es que realiza un cambio de account en caliente

Demostrándolo

