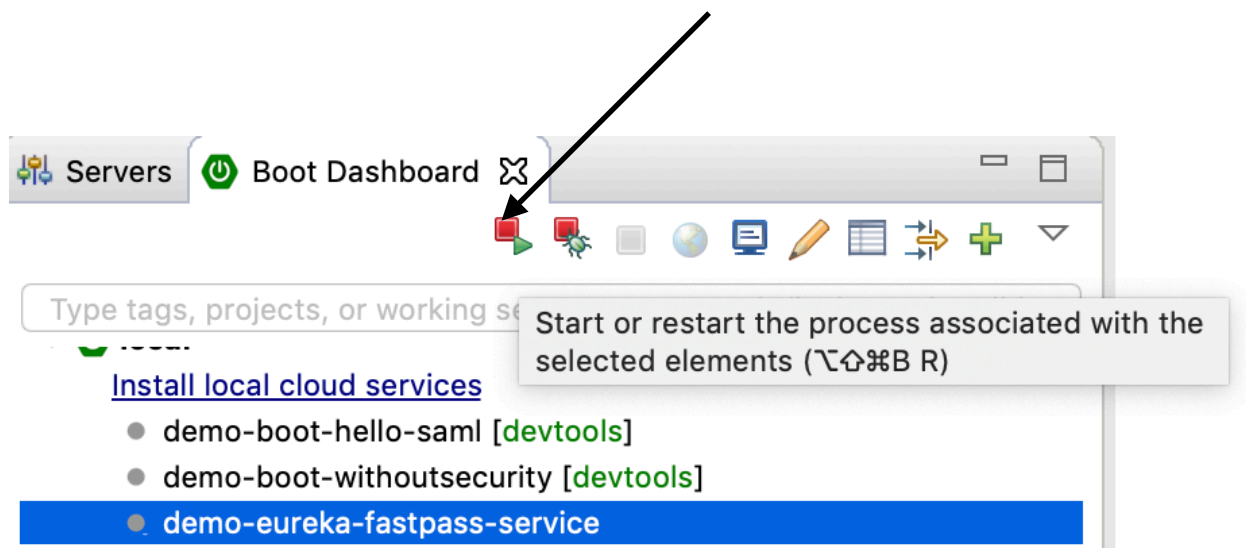


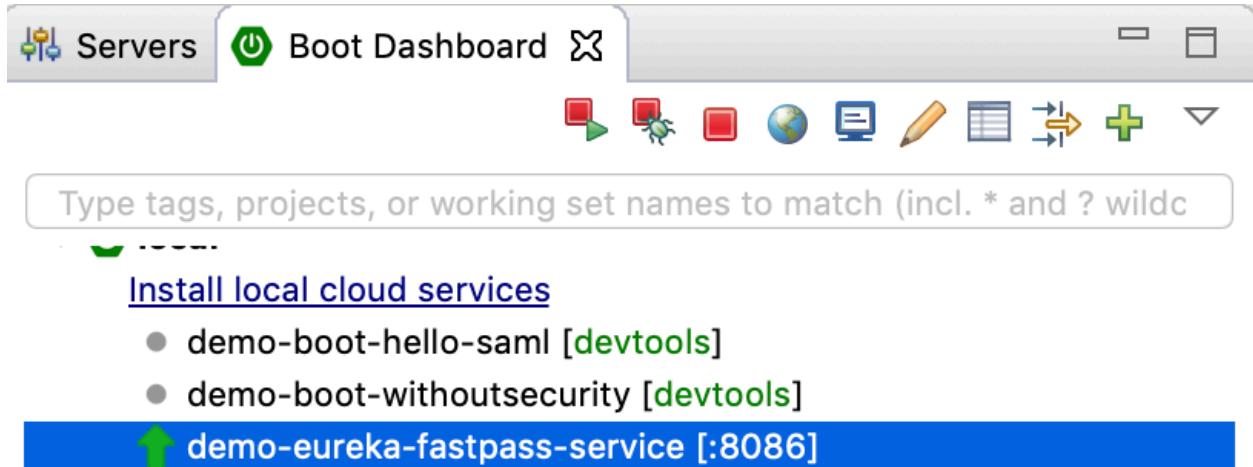
# Registering Multiple Services with Eureka

## Part 1 – Import & Run FastPass Service

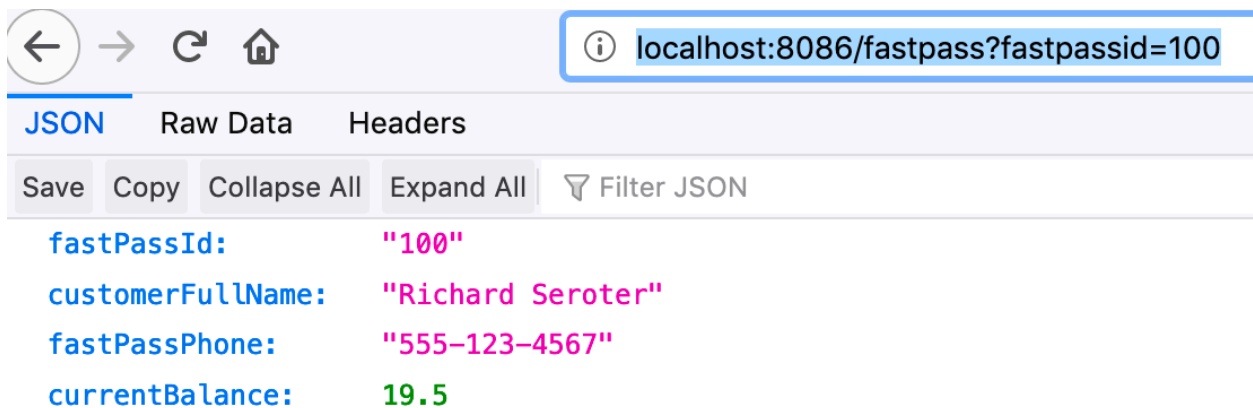
1. Import 2 projects **demo-eureka-fastpass-service** as Maven project
2. Start **demo-eureka-fastpass-service** application



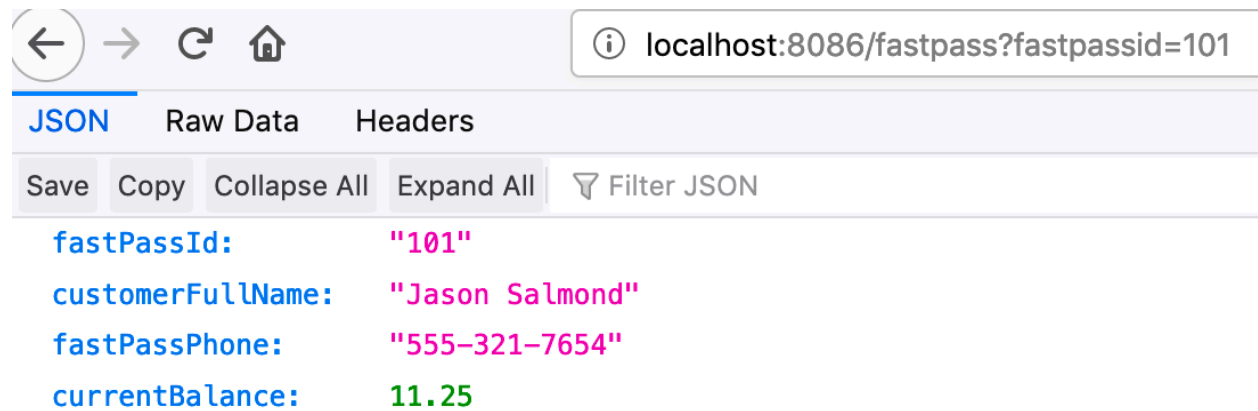
3. It starts on port# 8086



4. Visit **<http://localhost:8086/fastpass?fastpassid=100>**



5. Change param values to 101, 102 and observe the appropriate toll rate



The screenshot shows a web browser interface with the address bar displaying `localhost:8086/fastpass?fastpassid=101`. Below the address bar, there are tabs for **JSON**, **Raw Data**, and **Headers**, with **JSON** being the active tab. A toolbar below the tabs includes buttons for **Save**, **Copy**, **Collapse All**, **Expand All**, and a **Filter JSON** dropdown. The JSON data is displayed in a key-value format:

<code>fastPassId:</code>	<code>"101"</code>
<code>customerFullName:</code>	<code>"Jason Salmond"</code>
<code>fastPassPhone:</code>	<code>"555-321-7654"</code>
<code>currentBalance:</code>	<code>11.25</code>

## Part 2 – Register Fastpass Service with Eureka

6. Add spring-cloud-eureka dependency

**pom.xml**

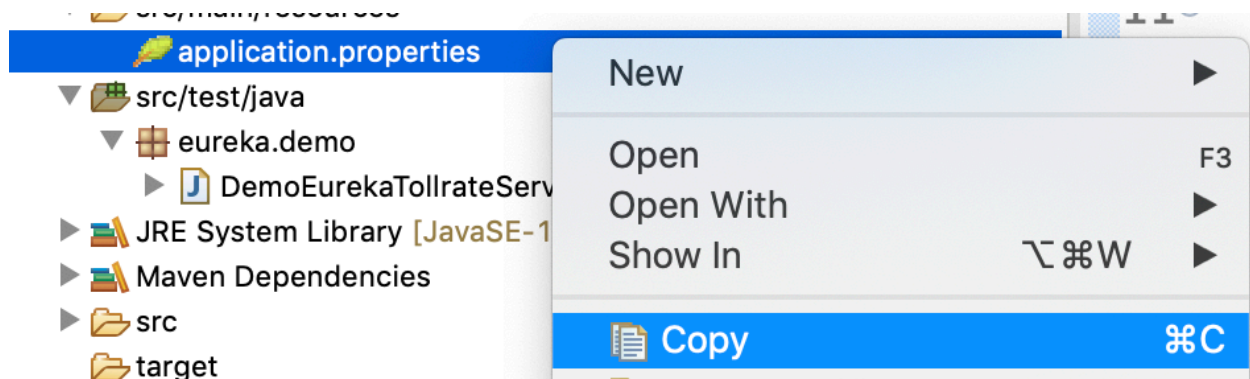
```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-eureka</artifactId>
  <version>1.4.5.RELEASE</version>
</dependency>
```

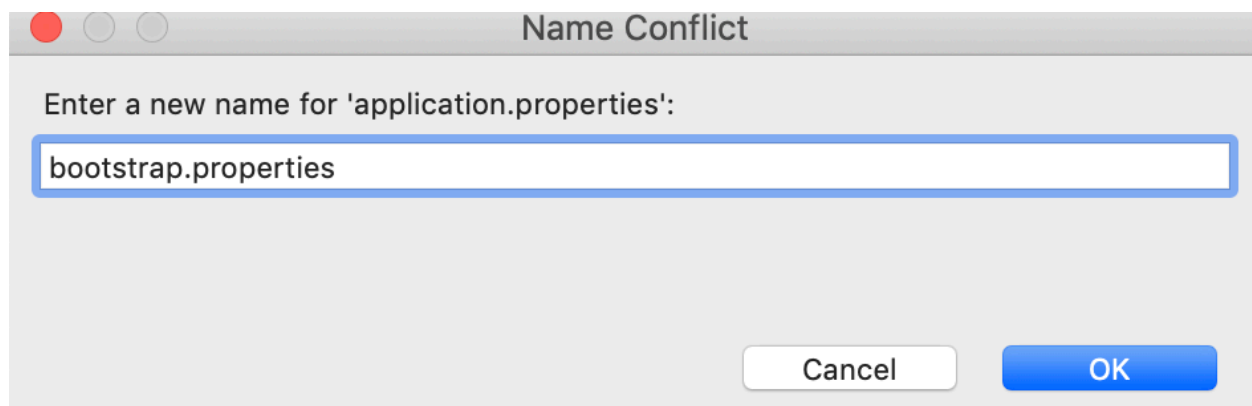
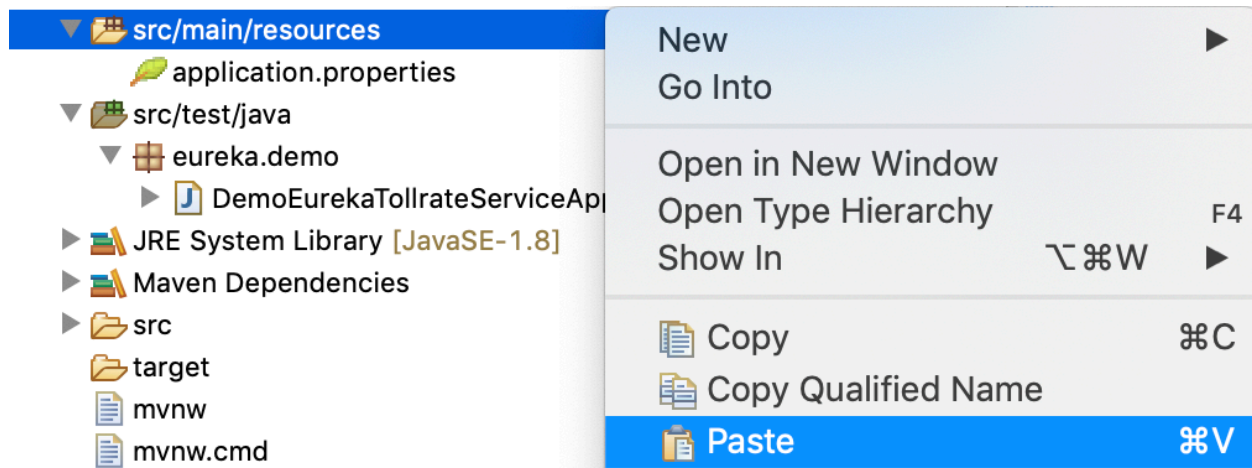
7. Enable Eureka Client for this Micro service to register with Eureka Server using Annotation

**DemoEurekaFastpassServiceApplication.java**

```
@EnableEurekaClient
@SpringBootApplication
public class DemoEurekaFastpassServiceApplication {
```

8. Create bootstrap.properties





9. App Name in

**bootstrap.properties**

```
spring.application.name = demo-fastpass-service
```

10. Add these properties and change port number

To be able to start multiple instances, port# can be random for every instance

### application.properties

```
# eureka.client.serviceUrl.defaultZone = http://localhost:8761/eureka

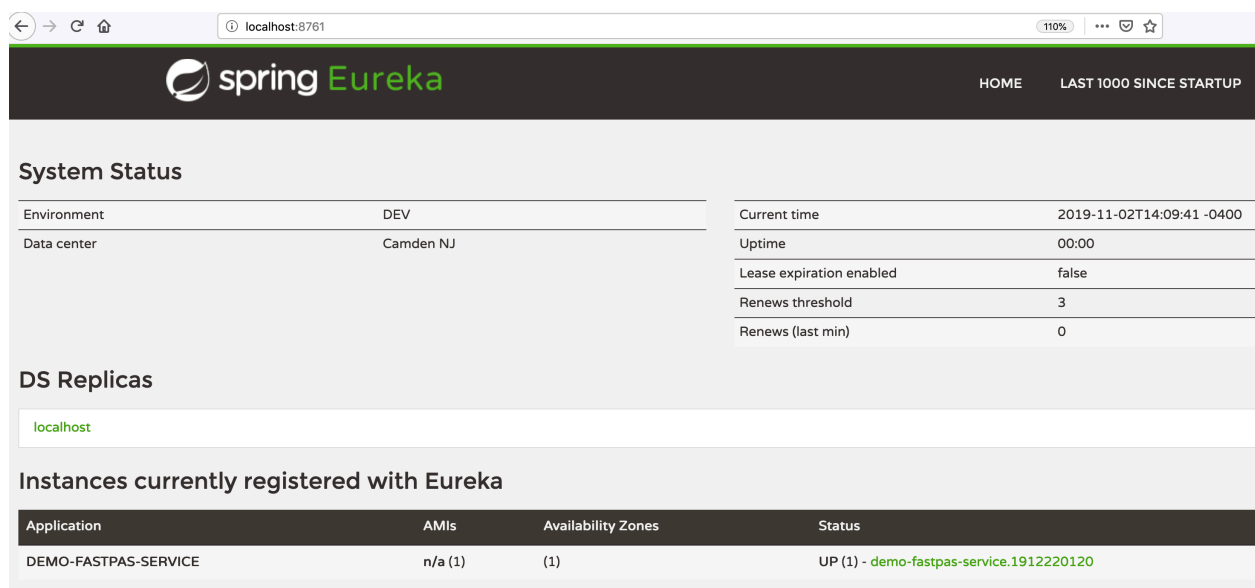
eureka.client.register-with-eureka = true
eureka.client.fetch-registry = true
eureka.client.healthcheck.enabled = true

eureka.instance.instance-id = ${spring.application.name}.${random.int}

server.port = 0
```

11. RUN the APP

12. Visit ***<http://localhost:8761/>***



The screenshot shows the Spring Eureka dashboard in a web browser. The address bar shows 'localhost:8761'. The dashboard has a dark header with the 'spring Eureka' logo and navigation links for 'HOME' and 'LAST 1000 SINCE STARTUP'. Below the header, there's a 'System Status' section with two tables. The first table shows 'Environment' as 'DEV' and 'Data center' as 'Camden NJ'. The second table shows 'Current time' as '2019-11-02T14:09:41 -0400', 'Uptime' as '00:00', 'Lease expiration enabled' as 'false', 'Renews threshold' as '3', and 'Renews (last min)' as '0'. Below this is a 'DS Replicas' section showing 'localhost'. At the bottom is a section titled 'Instances currently registered with Eureka' containing a table with one instance: 'DEMO-FASTPAS-SERVICE' with 'n/a (1)' AMIs, '(1)' Availability Zones, and a status of 'UP (1) - demo-fastpas-service.1912220120'.


Application	AMIs	Availability Zones	Status
DEMO-FASTPAS-SERVICE	n/a (1)	(1)	UP (1) - demo-fastpas-service.1912220120

## 12. Start Tollrate service as well

← → ↺ 🏠

localhost:8761

110% ... 📄 ☆

HOMELAST 1000 SINCE STARTUP

### System Status

Environment	DEV	Current time	2019-11-02T14:13:44 -0400
Data center	Camden NJ	Uptime	00:04
		Lease expiration enabled	false
		Renews threshold	5
		Renews (last min)	4

### DS Replicas

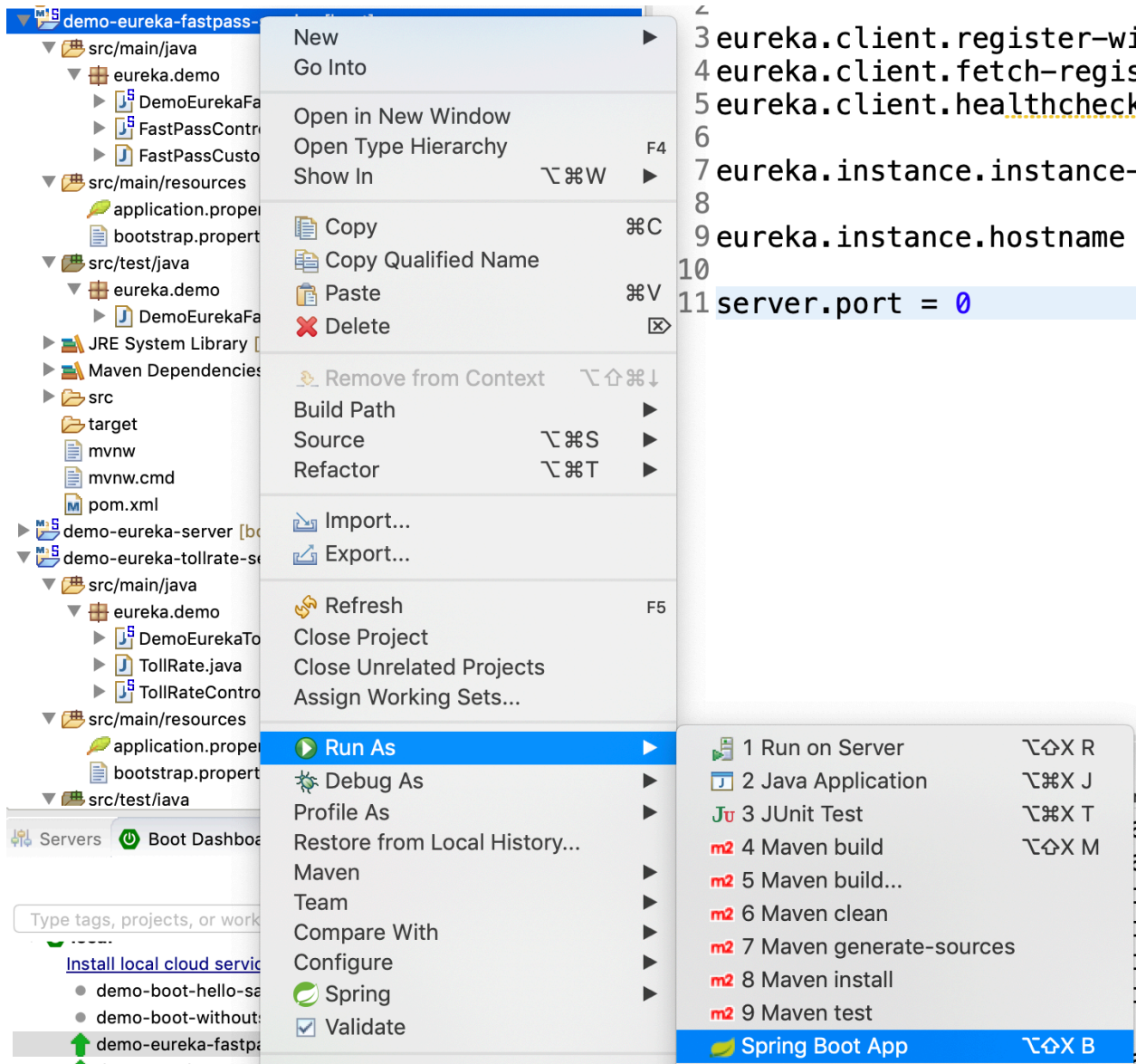
localhost

### Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
DEMO-FASTPAS-SERVICE	n/a (1)	(1)	UP (1) - demo-fastpas-service.1912220120
DEMO-TOLL-SERVICE	n/a (1)	(1)	UP (1) - demo-toll-service.1268009555

13. Start another instance of fastness service

Select **demo-eureka-fastpass-service** and click on **Run → Run**





## System Status

Environment	DEV	Current time	2019-11-02T14:20:24 -0400
Data center	Camden NJ	Uptime	00:02
		Lease expiration enabled	true
		Renews threshold	8
		Renews (last min)	12

## DS Replicas

localhost

## Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
DEMO-FASTPASS-SERVICE	n/a (2)	(2)	UP (2) - demo-fastpass-service.-1056399624 , demo-fastpass-service.883346994
DEMO-TOLL-SERVICE	n/a (2)	(2)	UP (2) - demo-toll-service.1368046516 , demo-toll-service.790954457







