

Adding a Circuit Breaker to Microservices

1. Open **demo-eureka-fastpass-console** Application
2. Add a dependency for Hystrix

pom.xml

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

3. Add annotation for Circuit Breaker

```
@EnableCircuitBreaker
@EnableEurekaClient
@SpringBootApplication
public class DemoEurekaFastpassConsoleApplication {
```

4. Add a Fallback method for an API call using **@HystircCommand** annotation

FastPassController.java

```
@HystrixCommand(fallbackMethod =  
    "getFastPassCustomerDetailsBackup")  
    @RequestMapping(path="/customerdetails",  
        params={"fastpassid"})  
    public String getFastPassCustomerDetails(@RequestParam  
        String fastpassid, Model m) {
```

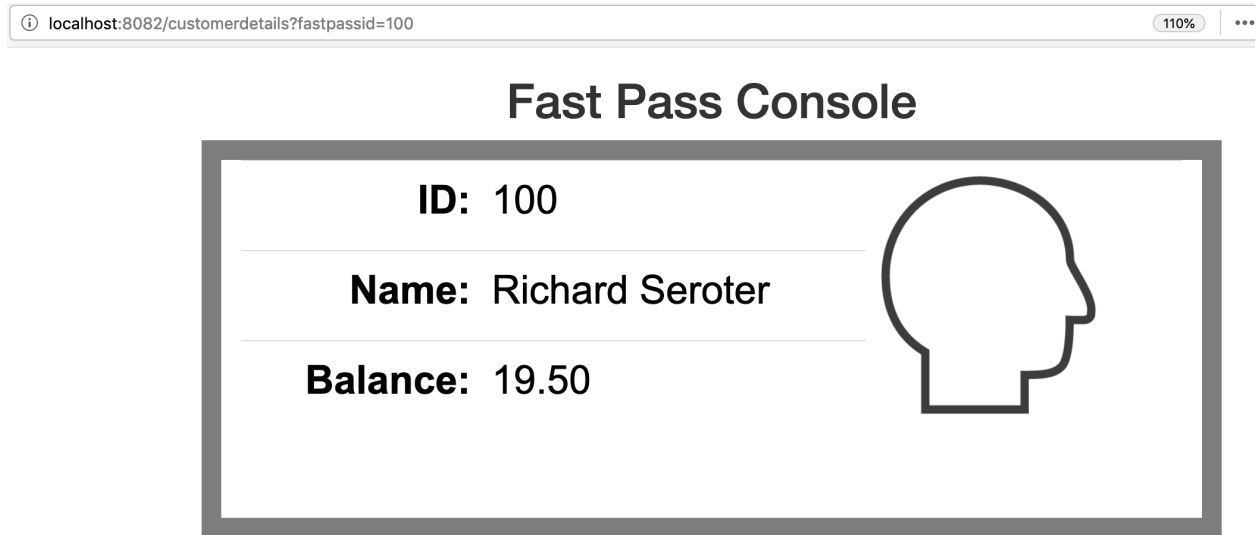
Create a fallback method with the same name

```
public String getFastPassCustomerDetailsBackup(@RequestParam  
    String fastPassId, Model m) {  
  
        System.out.println("Fallback operation Called!");  
  
        FastPassCustomer c = new FastPassCustomer();  
        c.setFastPassId(fastPassId);  
        m.addAttribute("customer", c);  
  
        return "console";  
    }
```

5. Start Eureka Server
6. Start fastpass-service
7. Start fastpass-console

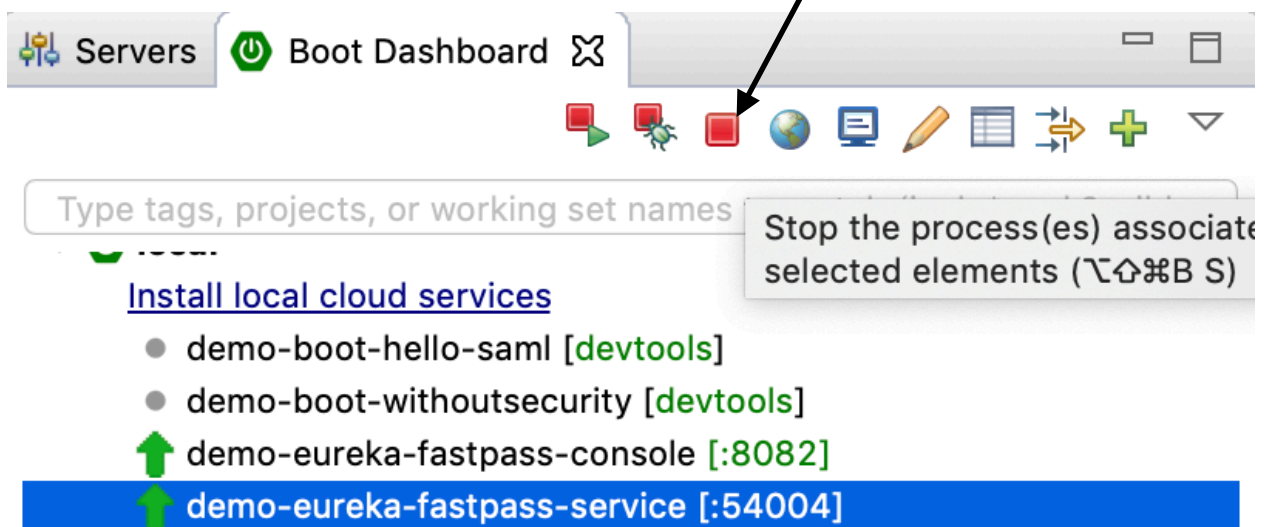
8. OUTPUT

Visit ***http://localhost:8082/customerdetails?fastpassid=100***



9. Shutdown fastpass-service

Select **demo-eureka-fastpass-service** and click STOP



10. Go back to browser and send a new request
Visit **<http://localhost:8082/customerdetails?fastpassid=101>**

localhost:8082/customerdetails?fastpassid=101

110%

Fast Pass Console

ID: 101

Name:

Balance:



