

EXAMEN DE PRUEBAS DE HABILIDADES TÉCNICAS PARA PROCESO DE RECLUTAMIENTO EN GFT

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El código del proyecto desarrollado para el examen que me solicitaron, se encuentra en mi repositorio de **GitHub**: <https://github.com/sebrodval/examenGFTSebastianRodarteValle>

➤ **COMPONENTES:**

○ **gftbank-config**

Contiene la configuración centralizada de cada uno de los componentes mediante **Spring Cloud Config**.

○ **gftbank-eureka**

Componente de **Netflix Eureka** donde se registran los microservicios

○ **gftbank**

Contiene los **servicios REST** para el **CRUD** de los **clientes/cuentas** con **persistencia JPA** y **H2**.

○ **gftbak-feign**

Microservicio que funciona como cliente del componente **“gftbank”** donde consume sus servicios **REST** mediante **feign**

Este componente contiene la exposición del API mediante **Swagger**.

○ **gftbak-zuul**

Componente que funciona como gateway para el acceso a los servicios mediante **Netflix Zuul**

➤ ARCHIVOS DE CONFIGURACIÓN EXTERNOS

Los siguientes archivos de configuración se encuentran localizados en el directorio **/config-data/** el cual está ubicado en el directorio raíz del repositorio en Git Hub

▫ gftbank-eureka.yml

```
server:
  port: 8082

eureka:
  instance:
    hostname: localhost
  client:
    registerWithEureka: false
    fetchRegistry: false
    serviceUrl:
      defaultZone: http://${eureka.instance.hostname}:${server.port}/eureka/
```

▫ gftbank.yml

```
#Application Configuration
server:
  port: 8083

spring:
  h2:
    console:
      enabled: true
    # =====
    # DB
    # =====
  datasource:
    url: jdbc:h2:mem:gftbankDB;DB_CLOSE_DELAY=-1;DB_CLOSE_ON_EXIT=FALSE
    driverClassName: org.h2.Driver
    platform: h2
    username: sa
    password:

    # =====
    # JPA / HIBERNATE
    # =====
  jpa:
    show-sql: true
    hibernate:
      ddl-auto: update
    database-platform: org.hibernate.dialect.H2Dialect
    properties:
      hibernate:
        show_sql: true
        use_sql_comments: false
        format_sql: false
  logging:
    pattern:
      console: "%d{yyyy-MM-dd HH:mm:ss} ${LOG_LEVEL_PATTERN:-%5p} %m%n"
  eureka:
    client:
      serviceUrl:
        defaultZone: http://localhost:8082/eureka/
```

▫ **gftbank-feign.yml**

```
#Application Configuration
server:
  port: 8084

logging:
  pattern:
    console: "%d{yyyy-MM-dd HH:mm:ss} ${LOG_LEVEL_PATTERN:-%5p} %m%n"
eureka:
  client:
    serviceUrl:
      defaultZone: http://localhost:8082/eureka/
```

▫ **gftbank-zuul.yml**

```
#Application Configuration
server:
  port: 8080

eureka:
  client:
    serviceUrl:
      defaultZone: http://localhost:8082/eureka/

zuul:
  routes:
    gftbank:
      path: /gftbank/**
      url: http://localhost:8084/gftbank/
```

➤ Componente **gftbank-config**:

- Archivo de configuración **bootstrap.yml** ubicado dentro de **resources**:

```
server :
  port: 8081

spring:
  cloud:
    config:
      server:
        git:
          uri: https://github.com/sebrodval/examenGFTSebastianRodarteValle.git
          searchPaths: config-data

security:
  user:
    name: root
    password: pass
```

- Compilación con **GRADLE**:

```
Windows PowerShell
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-config> ./gradlew clean

BUILD SUCCESSFUL in 1s
1 actionable task: 1 executed
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-config> ./gradlew build
> Task :test
2020-05-31 15:35:55.328 INFO 24280 --- [extShutdownHook] o.s.s.con
current.ThreadPoolTaskExecutor : Shutting down ExecutorService 'ap
plicationTaskExecutor'

BUILD SUCCESSFUL in 16s
5 actionable tasks: 5 executed
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-config>
```

- Ejecución de SpringBoot:

```
package com.gft.bank.config;

import org.springframework.boot.SpringApplication;

@EnableConfigServer
@SpringBootApplication
public class GftbankConfigApplication {

    public static void main(String[] args) {
        SpringApplication.run(GftbankConfigApplication.class, args);
    }

}
```

```
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-config> ./gradlew bootRun

> Task :bootRun

Spring
:: Spring Boot :: (v2.3.0.RELEASE)

2020-05-31 15:45:33.648 INFO 23228 --- [main] c.g.b.config.GftbankConfigApplication : No active profile set, falling back to default profiles: default
2020-05-31 15:45:34.468 INFO 23228 --- [main] o.s.c.l.c.s.GenericScope : BeanFactory id=b34ce573-0020-3f7a-a8c4-a867b92f909a
2020-05-31 15:45:35.065 INFO 23228 --- [main] o.s.b.w.e.t.TomcatWebServer : Tomcat initialized with port(s): 8081 (http)
2020-05-31 15:45:35.087 INFO 23228 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2020-05-31 15:45:35.087 INFO 23228 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.35]
2020-05-31 15:45:35.209 INFO 23228 --- [main] o.a.c.c.c.[Tomcat].[/] : Initializing Spring embedded WebApplicationContext
2020-05-31 15:45:35.209 INFO 23228 --- [main] o.s.w.c.c.ContextLoader : Root WebApplicationContext: initialization completed in 1547 ms
2020-05-31 15:45:35.449 INFO 23228 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2020-05-31 15:45:36.023 INFO 23228 --- [main] o.s.w.DefaultSecurityFilterChain : Creating filter chain: any request, [org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter@1537e43, org.springframework.security.web.context.SecurityContextPersistenceFilter@19ad75e5, org.springframework.security.web.header.HeaderWriterFilter@11e0c06b, org.springframework.security.web.csrf.CsrfFilter@5866731, org.springframework.security.web.authentication.logout.LogoutFilter@45bbc52f, org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter@88e5e7ae, org.springframework.security.web.authentication.ui.DefaultLoginPageGeneratingFilter@2f8c4fae, org.springframework.security.web.authentication.ui.DefaultLogoutPageGeneratingFilter@573aeab2, org.springframework.security.web.authentication.www.BasicAuthenticationFilter@27da994b, org.springframework.security.web.savedrequest.RequestCacheAwareFilter@19cdc217, org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter@47fb7ec9, org.springframework.security.web.authentication.AnonymousAuthenticationFilter@1304e0d7, org.springframework.security.web.session.SessionManagementFilter@25ce435, org.springframework.security.web.access.ExceptionTranslationFilter@3bb08c16, org.springframework.security.web.access.intercept.FilterSecurityInterceptor@3dlc933]
2020-05-31 15:45:36.383 INFO 23228 --- [main] o.s.b.a.e.w.EndpointLinksResolver : Exposing 2 endpoint(s) beneath base path '/actuator'
2020-05-31 15:45:36.424 INFO 23228 --- [main] o.s.b.w.e.t.TomcatWebServer : Tomcat started on port(s): 8081 (http) with context path ''
2020-05-31 15:45:36.744 INFO 23228 --- [main] c.g.b.config.GftbankConfigApplication : Started GftbankConfigApplication in 4.439 seconds (JVM running for 4.88s)
> bootRun
75% EXECUTING [4m 22s]
```

➤ Componente gftbank-eureka:

- Archivo de configuración **bootstrap.yml** ubicado dentro de **resources**:

```
spring:
  application:
    name: gftbank-eureka
  cloud:
    config:
      uri: http://localhost:8081
      username: root
      password: pass
```

- Compilación con **GRADLE**:

```
Windows PowerShell
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-eureka> ./gradlew clean
Starting a Gradle Daemon, 1 busy Daemon could not be reused, use --status for details

BUILD SUCCESSFUL in 6s
1 actionable task: 1 executed
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-eureka> ./gradlew build
> Task :test
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstream/xstream/1.4.11.1/6c120c45a8c480bb2fea5b56502e3993ddd74fd2/xstream-1.4.11.1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 15:54:03.288 INFO 23428 --- [extShutdownHook] o.s.c.n.e.s.EurekaServiceRegistry : Unregistering application GFTBANK-EUREKA with eureka with status DOWN
2020-05-31 15:54:03.295 INFO 23428 --- [extShutdownHook] c.n.eureka.DefaultEurekaServerContext : Shutting down ...
2020-05-31 15:54:03.331 INFO 23428 --- [extShutdownHook] c.n.eureka.DefaultEurekaServerContext : Shut down
2020-05-31 15:54:03.338 INFO 23428 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTaskExecutor'
2020-05-31 15:54:03.380 INFO 23428 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : Shutting down DiscoveryClient ...
2020-05-31 15:54:03.383 INFO 23428 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : Completed shut down of DiscoveryClient

BUILD SUCCESSFUL in 25s
5 actionable tasks: 5 executed
PS C:\Users\sebro\repositorioGitsRV\examenGFTSebastianRodarteValle\gftbank-eureka>
```

- Ejecución de SpringBoot:

```
package com.gft.bank.eureka;

import org.springframework.boot.SpringApplication;

@EnableEurekaServer
@SpringBootApplication
public class GftbankEurekaApplication {

    public static void main(String[] args) {
        SpringApplication.run(GftbankEurekaApplication.class, args);
    }
}
```

```
Spring
:: Spring Boot :: (v2.3.0.RELEASE)

2020-05-31 15:56:25.533 INFO 25196 --- [main] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at : http://localhost:8081
2020-05-31 15:56:25.533 INFO 25196 --- [main] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=gftbank-eureka, profiles=[default], label=null, version=42a5a10675a97676959061243f0a03729821c1ef, state=null
2020-05-31 15:56:26.460 INFO 25196 --- [main] D.C.PropertySourceBootstrapConfiguration : Located property source: [BootstrapPropertySource (name='bootstrapProperties-2091cg1ent'), BootstrapPropertySource (name='bootstrapProperties-https://github.com/sebroval/examenGFTSebastianRodarteValle.git/Config-data/gftbank-eureka.yml')]
2020-05-31 15:56:26.464 INFO 25196 --- [main] c.g.b.eureka.GftBankEurekaApplication : No active profile set, falling back to default profiles: default
2020-05-31 15:56:27.232 WARN 25196 --- [main] o.s.boot.actuate.endpoint.EndpointId : Endpoint ID 'service-registry' contains invalid character 's', please migrate to a valid format.
2020-05-31 15:56:27.351 INFO 25196 --- [main] o.s.c.cloud.context.scope.GenericScope : BeanFactory id=2b826cfd-3ece-3f90-8b7f-a0beba7e94f7
2020-05-31 15:56:27.848 INFO 25196 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8082 (http)
2020-05-31 15:56:27.888 INFO 25196 --- [main] o.apache.catalina.core.StandardService : Starting service [tomcat]
2020-05-31 15:56:27.898 INFO 25196 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.35]
2020-05-31 15:56:28.024 INFO 25196 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded webApplicationContext
2020-05-31 15:56:28.024 INFO 25196 --- [main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1549 ms
2020-05-31 15:56:28.115 WARN 25196 --- [main] c.n.c.sources.URLConfigurationSource : No URLs will be polled as dynamic configuration sources.
2020-05-31 15:56:28.116 INFO 25196 --- [main] c.n.c.sources.URLConfigurationSource : To enable URLs as dynamic configuration sources, define a system property archaius.configurationSource.additionalUrls or make config.properties available on classpath.
2020-05-31 15:56:28.124 INFO 25196 --- [main] c.netflix.config.DynamicPropertyFactory : DynamicPropertyFactory is initialized with configuration sources: com.netflix.config.ConcurrentCompositeConfiguration@23c767e5
2020-05-31 15:56:28.465 INFO 25196 --- [main] c.s.j.s.i.a.WebApplicationImpl : Initiating Jersey application, version 'Jersey: 1.19.1 03/11/2016 02:08 PM'
2020-05-31 15:56:28.524 INFO 25196 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON encoding codec LegacyJacksonJson
2020-05-31 15:56:28.525 INFO 25196 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON decoding codec LegacyJacksonJson
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstream/xstream/1.4.11.1/6c120c45a8c480bb2feab5b6502e3993dd74fd2/xstream-1.4.11.1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 15:56:28.651 INFO 25196 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using XML encoding codec XStreamXml
2020-05-31 15:56:28.651 INFO 25196 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using XML decoding codec XStreamXml
2020-05-31 15:56:28.651 INFO 25196 --- [main] c.n.c.sources.URLConfigurationSource : No URLs will be polled as dynamic configuration sources.
2020-05-31 15:56:28.652 INFO 25196 --- [main] c.n.c.sources.URLConfigurationSource : To enable URLs as dynamic configuration sources, define a system property archaius.configurationSource.additionalUrls or make config.properties available on classpath.
2020-05-31 15:56:29.061 INFO 25196 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2020-05-31 15:56:30.016 WARN 25196 --- [main] c.k.s.ribbon.loadbalancer.client.ribbonwarnlogger : You already have RibbonLoadBalancerClient on your classpath. It will be used by default. As Spring Cloud Ribbon is in maintenance mode, we recommend switching to BlockingLoadBalancerClient instead. In order to use it, set the value of spring.cloud.loadbalancer.ribbon.enabled to false or remove spring-cloud-starter-netflix-ribbon from your project.
2020-05-31 15:56:30.064 INFO 25196 --- [main] o.s.c.n.e.eureka.instanceinfofactory : Setting initial instance status as: STARTING
2020-05-31 15:56:30.087 INFO 25196 --- [main] com.netflix.discovery.DiscoveryClient : Initializing Eureka in region us-east-1
2020-05-31 15:56:30.087 INFO 25196 --- [main] com.netflix.discovery.DiscoveryClient : Client configured to neither register nor query for data
2020-05-31 15:56:30.093 INFO 25196 --- [main] com.netflix.discovery.DiscoveryClient : Discovery client initialized at timestamp 150958590092 with initial instances count: 0
2020-05-31 15:56:30.125 INFO 25196 --- [main] c.n.eureka.DefaultEurekaServerContext : Initializing ...
2020-05-31 15:56:30.127 INFO 25196 --- [main] c.n.eureka.cluster.PeerEurekaNodes : The replica size seems to be empty. Check the route 53 DN
2020-05-31 15:56:30.171 INFO 25196 --- [main] c.n.e.registry.AbstractInstanceRegistry : Finished initializing remote region registries. All known remote regions: []
2020-05-31 15:56:30.172 INFO 25196 --- [main] c.n.eureka.DefaultEurekaServerContext : Initialized
2020-05-31 15:56:30.183 INFO 25196 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 2 endpoint(s) beneath base path '/actuator'
2020-05-31 15:56:30.214 INFO 25196 --- [main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application GFTBANK-EUR@KA with eureka with status UP
2020-05-31 15:56:30.216 INFO 25196 --- [Thread-383] o.s.c.n.e.server.EurekaServerBootstrap : Setting the eureka configuration.
2020-05-31 15:56:30.217 INFO 25196 --- [Thread-383] o.s.c.n.e.server.EurekaServerBootstrap : Eureka data center value eureka.datacenter is not set, defaulting to default
2020-05-31 15:56:30.217 INFO 25196 --- [Thread-383] o.s.c.n.e.server.EurekaServerBootstrap : Eureka environment value eureka.environment is not set, defaulting to test
2020-05-31 15:56:30.228 INFO 25196 --- [Thread-383] o.s.c.n.e.server.EurekaServerBootstrap : 1saws returned false
2020-05-31 15:56:30.229 INFO 25196 --- [Thread-383] o.s.c.n.e.server.EurekaServerBootstrap : Initialized server context
2020-05-31 15:56:30.229 INFO 25196 --- [Thread-383] c.n.e.r.PeerAwareInstanceRegistryImpl : Set 1 instances from neighboring DS node
2020-05-31 15:56:30.229 INFO 25196 --- [Thread-383] c.n.e.r.PeerAwareInstanceRegistryImpl : Renew threshold is: 1
2020-05-31 15:56:30.229 INFO 25196 --- [Thread-383] c.n.e.r.PeerAwareInstanceRegistryImpl : Changing status to UP
2020-05-31 15:56:30.240 INFO 25196 --- [Thread-383] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
2020-05-31 15:56:30.248 INFO 25196 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8082 (http) with context path '/'
2020-05-31 15:56:30.249 INFO 25196 --- [main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8082
2020-05-31 15:56:30.597 INFO 25196 --- [main] c.g.b.eureka.GftBankEurekaApplication : Started gftbankEurekaApplication in 6.473 seconds (JVM run time for 7.117s)
c:\bootRun
-----> 75% EXECUTING [12s]
```

➤ Componente gftbank:

- Archivo de configuración **bootstrap.yml** ubicado dentro de **resources**:

```
spring:
  application:
    name: gftbank
  cloud:
    config:
      uri: http://localhost:8081
      username: root
      password: pass
```

- Estructura de clases Java (Controladores con servicios REST, Servicios con sus respectivas interfaces y Persistencia con sus mapeos a las tablas tb_clientes y tb_cuentas):

```
▼ gftbank [boot] [examenGFTSebastianRodar]
  ▼ src/main/java
    ▼ com.gftbank
      ▼ controller
        > ClienteController.java
        > CuentaController.java
      ▼ entity
        > Cliente.java
        > Cuenta.java
      ▼ repository
        > ClienteRepository.java
        > CuentaRepository.java
      ▼ services
        > ClienteService.java
        > ClienteServiceImpl.java
        > CuentaService.java
        > CuentaServiceImpl.java
        > GftbankApplication.java
```

- Compilación con **GRADLE**:

```
Windows PowerShell
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank> ./gradlew clean
Starting a Gradle Daemon, 2 busy Daemons could not be reused, use -status for details

BUILD SUCCESSFUL in 6s
1 actionable task: 1 executed
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank> ./gradlew build
> Task :test
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstream/xstream/1.4.11.1/6c120c45a8c480bb2fea5b56502e3993ddd74fd2/xstream-1.4.11.1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 16:00:56 - INFO Unregistering application GFTBANK with eureka with status DOWN
2020-05-31 16:00:56 - WARN Saw local status change event StatusChangeEvent [timestamp=1590958856993, current=DOWN, previous=UP]
2020-05-31 16:00:56 - INFO DiscoveryClient_GFTBANK/host.docker.internal:gftbank:8083: registering service...
2020-05-31 16:00:57 - INFO Closing JPA EntityManagerFactory for persistence unit 'default'
2020-05-31 16:00:57 - INFO DiscoveryClient_GFTBANK/host.docker.internal:gftbank:8083 - registration status: 204
2020-05-31 16:00:57 - INFO Shutting down ExecutorService 'applicationTaskExecutor'
2020-05-31 16:00:57 - INFO HikariPool-1 - Shutdown initiated...
2020-05-31 16:00:57 - INFO HikariPool-1 - Shutdown completed.
2020-05-31 16:00:57 - INFO Shutting down DiscoveryClient ...
2020-05-31 16:01:00 - INFO Unregistering ...
2020-05-31 16:01:00 - INFO DiscoveryClient_GFTBANK/host.docker.internal:gftbank:8083 - deregister status: 200
2020-05-31 16:01:00 - INFO Completed shut down of DiscoveryClient

BUILD SUCCESSFUL in 28s
5 actionable tasks: 5 executed
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank>
```

- Ejecución de SpringBoot:

```
package com.gft.bank;

import org.springframework.boot.SpringApplication;

@SpringBootApplication
@EnableEurekaClient
public class GftbankApplication {

    public static void main(String[] args) {
        SpringApplication.run(GftbankApplication.class, args);
    }
}
```



```
Spring
:: Spring Boot :: (v2.3.0.RELEASE)

2020-05-31 16:06:41.417 INFO 6324 --- [ main] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at : http://localhost:8081
2020-05-31 16:06:42.374 INFO 6324 --- [ main] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=gftbank, profiles=[default], lab
el=null, version=42aa510675a97676959061243f0a03729821c1ef, state=null
2020-05-31 16:06:42.375 INFO 6324 --- [ main] b.c.PropertySourceBootstrapConfiguration : Located property source: [BootstrapPropertySource {name='b
ootstrapProperties-configClient'}, BootstrapPropertySource {name='bootstrapProperties-https://github.com/sebrodval/examengFTSebastianRodarteValle.git/config-d
ata/gftbank.yml'}]
2020-05-31 16:06:42 --- INFO No active profile set, falling back to default profiles: default
2020-05-31 16:06:43 --- INFO Bootstrapping Spring Data JPA repositories in DEFERRED mode.
2020-05-31 16:06:43 --- INFO Finished Spring Data repository scanning in 72ms. Found 2 JPA repository interfaces.
2020-05-31 16:06:43 --- INFO BeanFactory id=f4bb11fc-3021-3c00-8f26-df038c7c56ed
2020-05-31 16:06:43 --- INFO Tomcat initialized with port(s): 8083 (http)
2020-05-31 16:06:43 --- INFO Starting service [Tomcat]
2020-05-31 16:06:43 --- INFO Starting Servlet engine: [Apache Tomcat/9.0.35]
2020-05-31 16:06:44 --- INFO Initializing Spring embedded WebApplicationContext
2020-05-31 16:06:44 --- INFO Root WebApplicationContext: initialization completed in 1609 ms
2020-05-31 16:06:44 --- INFO HikariPool-1 - Starting...
2020-05-31 16:06:44 --- INFO HikariPool-1 - Start completed.
2020-05-31 16:06:44 --- INFO H2 console available at '/h2-console'. Database available at 'jdbc:h2:mem:gftbankDB'
2020-05-31 16:06:44 --- INFO Initializing ExecutorService 'applicationTaskExecutor'
2020-05-31 16:06:44 --- INFO HHH000204: Processing PersistenceUnitInfo [name: default]
2020-05-31 16:06:44 --- WARN No URLs will be polled as dynamic configuration sources.
2020-05-31 16:06:44 --- INFO To enable URLs as dynamic configuration sources, define System property archaius.configurationSource.additionalUrls or make config.
properties available on classpath.
2020-05-31 16:06:44 --- WARN No URLs will be polled as dynamic configuration sources.
2020-05-31 16:06:44 --- INFO To enable URLs as dynamic configuration sources, define System property archaius.configurationSource.additionalUrls or make config.
properties available on classpath.
2020-05-31 16:06:44 --- INFO HHH000412: Hibernate ORM core version 5.4.15.Final
2020-05-31 16:06:44 --- WARN spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly confi
gure spring.jpa.open-in-view to disable this warning
2020-05-31 16:06:44 --- INFO HCANN000001: Hibernate Commons Annotations {5.1.0.Final}
2020-05-31 16:06:45 --- INFO HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2020-05-31 16:06:45 --- INFO Initialized JPA EntityManagerFactory for persistence unit 'default'
2020-05-31 16:06:46 --- WARN You already have RibbonLoadBalancerClient on your classpath. It will be used by default. As Spring Cloud Ribbon is in maintenance m
ode, we recommend switching to BlockingLoadBalancerClient instead. In order to use it, set the value of 'spring.cloud.loadbalancer.ribbon.enabled' to false
or remove spring-cloud-starter-netflix-ribbon from your project.
2020-05-31 16:06:46 --- INFO Setting initial instance status as: STARTING
2020-05-31 16:06:46 --- INFO Initializing Eureka in region us-east-1
2020-05-31 16:06:46 --- INFO Using JSON encoding codec LegacyJacksonJson
2020-05-31 16:06:46 --- INFO Using JSON decoding codec LegacyJacksonJson
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstr
eam/xstream/1.4.11.1/6c120c45a8c480bb2fe5b56502e3993ddd74fd2/xstream-1.4.11.1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 16:06:46 --- INFO Using XML encoding codec XStreamXml
2020-05-31 16:06:46 --- INFO Using XML decoding codec XStreamXml
2020-05-31 16:06:46 --- INFO Resolving eureka endpoints via configuration
2020-05-31 16:06:47 --- INFO Disable delta property : false
2020-05-31 16:06:47 --- INFO Single vip registry refresh property : null
2020-05-31 16:06:47 --- INFO Force full registry fetch : false
2020-05-31 16:06:47 --- INFO Application is null : false
2020-05-31 16:06:47 --- INFO EXECUTING [205]ed Applications size is zero : true
2020-05-31 16:06:47 --- INFO Application version is -1: true
2020-05-31 16:06:47 --- INFO Getting all instance registry info from the eureka server
2020-05-31 16:06:47 --- INFO The response status is 200
2020-05-31 16:06:47 --- INFO Starting heartbeat executor: renew interval is: 30
2020-05-31 16:06:47 --- INFO InstanceInfoReplicator ondemand update allowed rate per min is 4
2020-05-31 16:06:47 --- INFO EXECUTING [195]y client initialized at timestamp 1590959207277 with initial instances count: 0
2020-05-31 16:06:47 --- INFO Registering application GFTBANK with eureka with status UP
2020-05-31 16:06:47 --- INFO Saw local status change event StatusChangeEvent [timestamp=1590959207282, current=UP, previous=STARTING]
2020-05-31 16:06:47 --- INFO DiscoveryClient_GFTBANK/host.docker.internal:gftbank:8083: registering service...
2020-05-31 16:06:47 --- INFO Tomcat started on port(s): 8083 (http) with context path '/'
2020-05-31 16:06:47 --- INFO Updating port to 8083
2020-05-31 16:06:47 --- INFO DiscoveryClient_GFTBANK/host.docker.internal:gftbank:8083 - registration status: 204
2020-05-31 16:06:47 --- INFO Triggering deferred initialization of Spring Data repositories
2020-05-31 16:06:47 --- INFO Spring Data repositories initialized!
2020-05-31 16:06:47 --- INFO Started gftbankApplication in 7.92 seconds (JVM running for 8.506)
<-----> 75% EXECUTING [135]
> bootRun
```

➤ Componente **gftbank-feign**:

- Archivo de configuración **bootstrap.yml** ubicado dentro de **resources**:

```
spring:
  application:
    name: gftbank-feign
cloud:
  config:
    uri: http://localhost:8081
    username: root
    password: pass
```


- Estructura de clases Java (Cliente de microservicio gftbank mediante feign, configuración de swagger, controlador para exponer API, capas de modelo y servicios):

```

v gftbank-feign [boot] [examenGFTSebastian]
v src/main/java
  v com.gft.bank.feign
    v client
      > GFTBankClient.java
    v configuration
      > SwaggerConfig.java
    v controller
      > GFTBankRest.java
    v model
      > Cliente.java
      > Cuenta.java
    v services
      > GFTBankService.java
      > GFTBankServiceImpl.java
      > GftbankFeignApplication.java

```

- Compilación con **GRADLE**:

```

Windows PowerShell
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank-feign> ./gradlew clean
Starting a Gradle Daemon, 3 busy Daemons could not be reused, use --status for details

Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.3/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 6s
1 actionable task: 1 executed
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank-feign> ./gradlew build

> Task :test
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstream/xstream/1.4.11.1/6c120c45a8c480b2fea5b56502e3993ddd74fd2/xstream-1.4.11.1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 16:18:26 - INFO Unregistering application GFTBANK-FEIGN with eureka with status DOWN
2020-05-31 16:18:26 - WARN Saw local status change event StatusChangeEvent [timestamp=1590959906420, current=DOWN, previous=UP]
2020-05-31 16:18:26 - INFO DiscoveryClient_GFTBANK-FEIGN/host.docker.internal:gftbank-feign:8084: registering service...
2020-05-31 16:18:26 - INFO Shutting down ExecutorService 'applicationTaskExecutor'
2020-05-31 16:18:26 - INFO DiscoveryClient_GFTBANK-FEIGN/host.docker.internal:gftbank-feign:8084 - registration status: 204
2020-05-31 16:18:26 - INFO Shutting down DiscoveryClient ...
2020-05-31 16:18:29 - INFO Unregistering ...
2020-05-31 16:18:29 - INFO DiscoveryClient_GFTBANK-FEIGN/host.docker.internal:gftbank-feign:8084 - deregister status: 200
2020-05-31 16:18:29 - INFO Completed shut down of DiscoveryClient

Deprecated Gradle features were used in this build, making it incompatible with Gradle 7.0.
Use '--warning-mode all' to show the individual deprecation warnings.
See https://docs.gradle.org/6.3/userguide/command_line_interface.html#sec:command_line_warnings

BUILD SUCCESSFUL in 26s
5 actionable tasks: 5 executed
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank-feign>

```


○ Ejecución de SpringBoot:

```
package com.gft.bank.feign;

import org.springframework.boot.SpringApplication;

@SpringBootApplication
@EnableEurekaClient
@EnableFeignClients
public class GftbankFeignApplication {

    public static void main(String[] args) {
        SpringApplication.run(GftbankFeignApplication.class, args);
    }
}
```



```

:: Spring Boot ::
(V2.3.0.RELEASE)

2020-05-31 16:21:03.421 INFO 17868 --- [main] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at : http://localhost:8081
2020-05-31 16:21:04.365 INFO 17868 --- [main] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=gftbank-feign, profiles=[default], label=null, version=42aa510675a97676959061243f0a03729821c1ef, state=null
2020-05-31 16:21:04.366 INFO 17868 --- [main] b.c.PropertySourceBootstrapConfiguration : Located property source: [BootstrapPropertySource {name='bootstrapProperties-configClient'}, BootstrapPropertySource {name='bootstrapProperties-https://github.com/sebrodval/examenGFTSebastianRodarteValle.git/config-data/gftbank-feign.yml'}]
2020-05-31 16:21:04 INFO No active profile set, falling back to default profiles: default
2020-05-31 16:21:05 INFO BeanFactory id=ccf71691-48d7-3fd7-b9c6-f1ff3d2af048
2020-05-31 16:21:05 INFO Bean 'com.gft.bank.feign.client.GftBankClient' of type [org.springframework.cloud.openfeign.FeignClientFactoryBean] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)
2020-05-31 16:21:05 INFO Tomcat initialized with port(s): 8084 (http)
2020-05-31 16:21:05 INFO Starting service [Tomcat]
2020-05-31 16:21:05 INFO Starting Servlet engine: [Apache Tomcat/9.0.35]
2020-05-31 16:21:05 INFO Initializing Spring embedded WebApplicationContext
2020-05-31 16:21:05 INFO Root WebApplicationContext: initialization completed in 1557 ms
2020-05-31 16:21:06 INFO Mapped URL path [/v2/api-docs] onto method [springfox.documentation.swagger2.web.Swagger2Controller#getDocumentation(String, HttpServletRequest)]
2020-05-31 16:21:06 WARN No URLs will be polled as dynamic configuration sources.
2020-05-31 16:21:06 INFO To enable URLs as dynamic configuration sources, define System property archaius.configurationSource.additionalUrls or make config.properties available on classpath.
2020-05-31 16:21:06 WARN No URLs will be polled as dynamic configuration sources.
2020-05-31 16:21:06 INFO To enable URLs as dynamic configuration sources, define System property archaius.configurationSource.additionalUrls or make config.properties available on classpath.
2020-05-31 16:21:06 INFO Initializing ExecutorService 'applicationTaskExecutor'
2020-05-31 16:21:07 WARN You already have RibbonLoadBalancerClient on your classpath. It will be used by default. As Spring Cloud Ribbon is in maintenance mode, we recommend switching to BlockingLoadBalancerClient instead. In order to use it, set the value of spring.cloud.loadbalancer.ribbon.enabled to false or remove spring-cloud-starter-netflix-ribbon from your project.
2020-05-31 16:21:07 INFO Setting initial instance status as: STARTING
2020-05-31 16:21:07 INFO Initializing Eureka in region us-east-1
2020-05-31 16:21:07 INFO Using JSON encoding codec LegacyJacksonJson
2020-05-31 16:21:07 INFO Using JSON decoding codec LegacyJacksonJson
2020-05-31 16:21:07 INFO Using XML encoding codec XStreamXml
2020-05-31 16:21:07 INFO Using XML decoding codec XStreamXml
2020-05-31 16:21:07 INFO Resolving eureka endpoints via configuration
2020-05-31 16:21:08 INFO Disable delta property : false
2020-05-31 16:21:08 INFO Single vip registry refresh property : null
2020-05-31 16:21:08 INFO Force full registry fetch : false
2020-05-31 16:21:08 INFO Application is null : false
2020-05-31 16:21:08 INFO Registered Applications size is zero : true
2020-05-31 16:21:08 INFO Application version is -1: true
2020-05-31 16:21:08 INFO Getting all instance registry info from the eureka server
2020-05-31 16:21:08 INFO The response status is 200
2020-05-31 16:21:08 INFO Starting heartbeat executor: renew interval is: 30
2020-05-31 16:21:08 INFO InstanceInfoReplicator onDemand update allowed rate per min is 4
2020-05-31 16:21:08 INFO DiscoveryClient initialized at timestamp 1590960068190 with initial instances count: 1
2020-05-31 16:21:08 INFO Registering application GFTBANK-FEIGN with eureka with status UP
2020-05-31 16:21:08 INFO Saw local status change event StatusChangeEvent [timestamp=1590960068194, current=UP, previous=STARTING]
2020-05-31 16:21:08 INFO DiscoveryClient_GFTBANK-FEIGN/host.docker.internal:gftbank-feign:8084: registering service...
2020-05-31 16:21:08 INFO Tomcat started on port(s): 8084 (http) with context path ''
2020-05-31 16:21:08 INFO Updating port to 8084
2020-05-31 16:21:08 INFO DiscoveryClient_GFTBANK-FEIGN/host.docker.internal:gftbank-feign:8084 - registration status: 204
<-----> 75% EXECUTING [12s]refreshed
2020-05-31 16:21:08 INFO Found 1 custom documentation plugin(s)
2020-05-31 16:21:08 INFO Scanning for api listing references
2020-05-31 16:21:08 INFO Started GftbankFeignApplication in 6.763 seconds (JVM running for 7.47)
<-----> 75% EXECUTING [11s]
<-----> 75% EXECUTING [11s]
> :bootRun
```

○ Swagger:

```
package com.gft.bank.feign.configuration;

import org.springframework.context.annotation.Bean;

@Configuration
@EnableSwagger2
public class SwaggerConfig {

    @Bean
    public Docket api() {
        return new Docket(DocumentationType.SWAGGER_2).select()
            .apis(RequestHandlerSelectors.basePackage("com.gft.bank.feign"))
            .paths(PathSelectors.any()).build()
            .tags(new Tag("GFTBank", "El controlador GFT Bank Rest expone provee todos los serv
    });
}
```



Api Documentation

Api Documentation

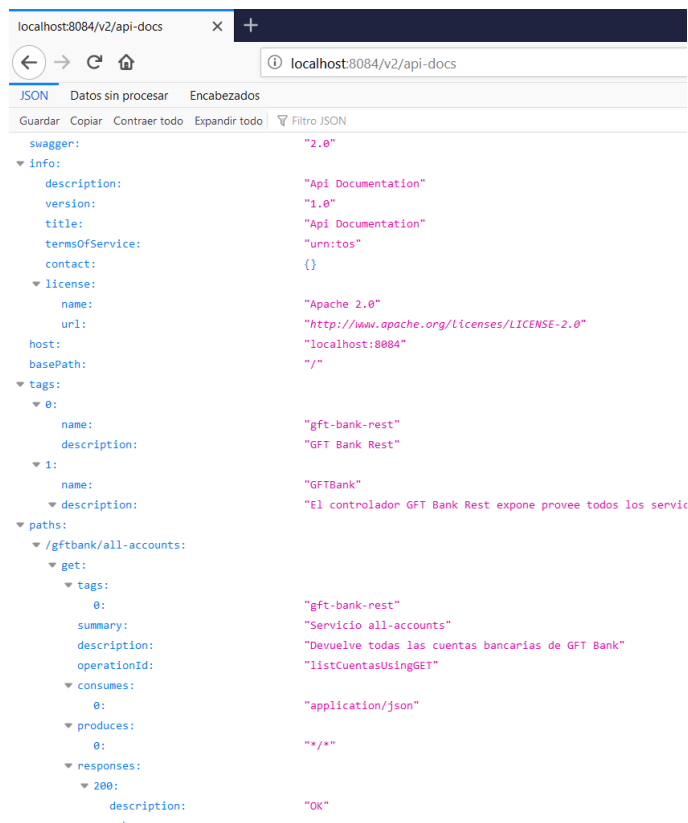
[Apache 2.0](#)

gft-bank-rest : GFT Bank Rest

Show/Hide | List Operations | Expand Operations

GET	/gftbank/all-accounts	Servicio all-accounts
GET	/gftbank/all-customers	Servicio all-customers
POST	/gftbank/create-account	Servicio create-account
POST	/gftbank/create-customer	Servicio create-customer
DELETE	/gftbank/delete-account/{id}	Servicio delete-account
DELETE	/gftbank/delete-customer/{id}	Servicio delete-customer
GET	/gftbank/read-account/{id}	Servicio read-account
GET	/gftbank/read-accounts-customer/{id}	Servicio read-accounts-customer
GET	/gftbank/read-customer/{id}	Servicio read-customer
PUT	/gftbank/update-account/{id}	Servicio update-account
PUT	/gftbank/update-customer/{id}	Servicio update-customer

[BASE URL: / , API VERSION: 1.0]

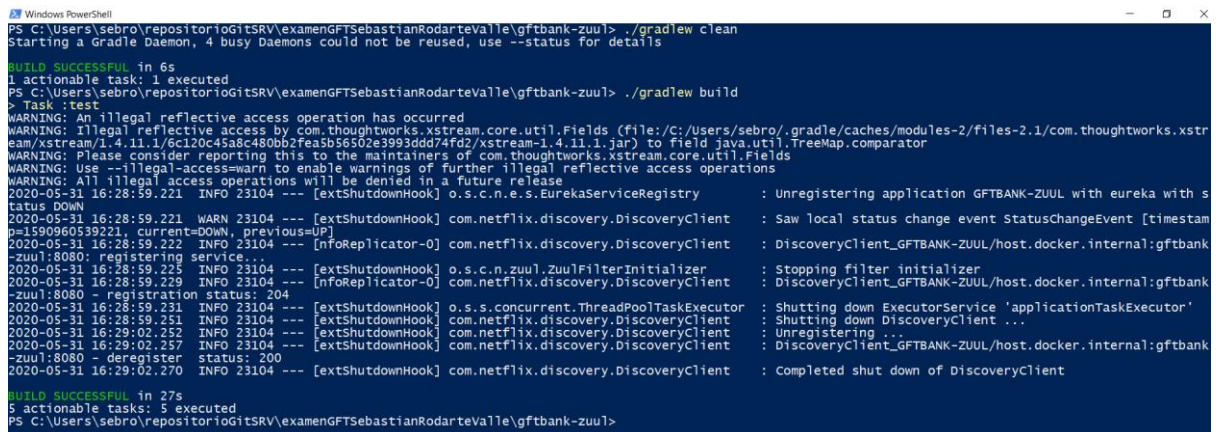


➤ Componente gftbank-zuul:

- Archivo de configuración **bootstrap.yml** ubicado dentro de **resources**:

```
spring:
  application:
    name: gftbank-zuul
  cloud:
    config:
      uri: http://localhost:8081
      username: root
      password: pass
```

- Compilación con **GRADLE**:



```
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank-zuul> ./gradlew clean
Starting a Gradle Daemon, 4 busy Daemons could not be reused, use --status for details

BUILD SUCCESSFUL in 6s
1 actionable task: 1 executed
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank-zuul> ./gradlew build
> Task :test
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstream/xstream/1.4.11.1/6c120c45a8c480bb2feab5b6502e3993ddd74fd2/xstream-1.4.11.1.jar) to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 16:28:59.221 INFO 23104 --- [extShutdownHook] o.s.c.n.e.s.EurekaServiceRegistry : Unregistering application GFTBANK-ZUUL with eureka with status DOWN
2020-05-31 16:28:59.221 WARN 23104 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : Saw local status change event StatusChangeEvent [timestamp=1590960539221, current=DOWN, previous=UP]
2020-05-31 16:28:59.222 INFO 23104 --- [nfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GFTBANK-ZUUL/host.docker.internal:gftbank
-zuul:8080: registering service...
2020-05-31 16:28:59.225 INFO 23104 --- [extShutdownHook] o.s.c.n.zuul.ZuulFilterInitializer : Stopping filter initializer
2020-05-31 16:28:59.229 INFO 23104 --- [nfoReplicator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GFTBANK-ZUUL/host.docker.internal:gftbank
-zuul:8080 - registration status: 204
2020-05-31 16:28:59.231 INFO 23104 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTaskExecutor'
2020-05-31 16:28:59.251 INFO 23104 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : Shutting down DiscoveryClient ...
2020-05-31 16:29:02.252 INFO 23104 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : Unregistering ...
2020-05-31 16:29:02.257 INFO 23104 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GFTBANK-ZUUL/host.docker.internal:gftbank
-zuul:8080 - deregister status: 200
2020-05-31 16:29:02.270 INFO 23104 --- [extShutdownHook] com.netflix.discovery.DiscoveryClient : completed shut down of DiscoveryClient

BUILD SUCCESSFUL in 27s
5 actionable tasks: 5 executed
PS C:\Users\sebro\repositorioGitSRV\examenGFTSebastianRodarteValle\gftbank-zuul>
```

- Ejecución de SpringBoot:

```
package com.gft.bank.zuul;

import org.springframework.boot.SpringApplication;

@SpringBootApplication
@EnableDiscoveryClient
@EnableZuulProxy
public class GftbankZuulApplication {

    public static void main(String[] args) {
        SpringApplication.run(GftbankZuulApplication.class, args);
    }
}
```



```
Spring Boot (v2.3.0.RELEASE)
2020-05-31 16:31:01.211 INFO 21880 --- [main] c.c.c.ConfigServicePropertySourceLocator : Fetching config from server at : http://localhost:8081
2020-05-31 16:31:02.175 INFO 21880 --- [main] c.c.c.ConfigServicePropertySourceLocator : Located environment: name=gftbank-zuul, profiles=[default], label=null, version=42aa510675a97676959061243f0a03729821c1ef, state=null
2020-05-31 16:31:02.176 INFO 21880 --- [main] b.c.PropertySourceBootstrapConfiguration : Located property source: [BootstrapPropertySource {name='bootstrapProperties-configClient'}, BootstrapPropertySource {name='bootstrapProperties-https://github.com/sebroadval/examenOfSebastianRodarteValle.git/config-data/gftbank-zuul.yml'}]
2020-05-31 16:31:02.180 INFO 21880 --- [main] c.gft.bank.zuul.GftbankZuulApplication : No active profile set, falling back to default profiles: default
2020-05-31 16:31:02.950 WARN 21880 --- [main] o.s.boot.actuate.endpoint.EndpointId : Endpoint ID 'service-registry' contains invalid character s, please migrate to a valid format.
2020-05-31 16:31:02.965 WARN 21880 --- [main] o.s.boot.actuate.endpoint.EndpointId : Endpoint ID 'hystrix.stream' contains invalid characters, please migrate to a valid format.
2020-05-31 16:31:03.086 INFO 21880 --- [main] o.s.cloud.context.scope.GenericScope : BeanFactory id=cf05cc28-4fa5-3d99-89d7-cde4bb5cbfb5
2020-05-31 16:31:03.805 INFO 21880 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2020-05-31 16:31:03.815 INFO 21880 --- [main] org.apache.catalina.core.StandardEngine : Starting service [Tomcat]
2020-05-31 16:31:03.815 INFO 21880 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.35]
2020-05-31 16:31:03.952 INFO 21880 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2020-05-31 16:31:03.952 INFO 21880 --- [main] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1757 ms
2020-05-31 16:31:04.047 WARN 21880 --- [main] c.n.c.sources.URLConfigurationSource : No URLs will be polled as dynamic configuration sources.
2020-05-31 16:31:04.047 INFO 21880 --- [main] c.n.c.sources.URLConfigurationSource : To enable URLs as dynamic configuration sources, define System property archaius.configurationSource.additionalUrls or make config.properties available on classpath.
2020-05-31 16:31:04.056 INFO 21880 --- [main] c.netflix.config.DynamicPropertyFactory : DynamicPropertyFactory is initialized with configuration sources: com.netflix.config.ConcurrentCompositeConfiguration@4d8e132
2020-05-31 16:31:04.612 WARN 21880 --- [main] c.n.c.sources.URLConfigurationSource : No URLs will be polled as dynamic configuration sources.
2020-05-31 16:31:04.612 INFO 21880 --- [main] c.n.c.sources.URLConfigurationSource : To enable URLs as dynamic configuration sources, define System property archaius.configurationSource.additionalUrls or make config.properties available on classpath.
2020-05-31 16:31:04.779 INFO 21880 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2020-05-31 16:31:05.411 WARN 21880 --- [main] o.s.c.n.zuul.ZuulFilterInitializer : You already have RibbonLoadBalancerClient on your classpath. It will be used by default. As Spring Cloud Ribbon is in maintenance mode, we recommend switching to BlockingLoadBalancerClient instead. In order to use it, set the value of spring.cloud.loadbalancer.ribbon.enabled to false or remove spring-cloud-starter-netflix-ribbon from your project.
2020-05-31 16:31:05.631 INFO 21880 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 2 endpoint(s) beneath base path '/actuator'
2020-05-31 16:31:05.667 INFO 21880 --- [main] o.s.c.n.eureka.InstanceInfoFactory : Setting initial instance status as: STARTING
2020-05-31 16:31:05.736 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Initializing Eureka in region us-east-1
2020-05-31 16:31:05.777 INFO 21880 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON encoding codec LegacyJacksonJson
2020-05-31 16:31:05.777 INFO 21880 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using JSON decoding codec LegacyJacksonJson
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields (file:/C:/Users/sebro/.gradle/caches/modules-2/files-2.1/com.thoughtworks.xstream/xstream/1.4.11.1/6c120c458c480bb2feab56502e3993dd74fd2/7fd2/7fd2.jar) to field java.util.TreeMap.comparator
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2020-05-31 16:31:05.915 INFO 21880 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using XML encoding codec XStreamXml
2020-05-31 16:31:05.916 INFO 21880 --- [main] c.n.d.provider.DiscoveryJerseyProvider : Using XML decoding codec XStreamXml
2020-05-31 16:31:06.063 INFO 21880 --- [main] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration
2020-05-31 16:31:06.280 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Disable delta property : false
2020-05-31 16:31:06.280 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Single vip registry refresh property : null
2020-05-31 16:31:06.280 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Force full registry fetch : false
2020-05-31 16:31:06.280 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Application is null : false
2020-05-31 16:31:06.281 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Registered Applications size is zero : true
2020-05-31 16:31:06.281 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Application version is -1: true
2020-05-31 16:31:06.281 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Getting all instance registry info from the eureka server
2020-05-31 16:31:06.374 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : The response status is 200
2020-05-31 16:31:06.376 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Starting heartbeat executor: renew interval is: 30
2020-05-31 16:31:06.379 INFO 21880 --- [main] c.n.discovery.InstanceInfoReplicator : InstanceInfoReplicator onDemand update allowed rate per m
in is 4
2020-05-31 16:31:06.383 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : Discovery Client initialized at timestamp 1590960666382 w
ith initial instances count: 2
2020-05-31 16:31:06.385 INFO 21880 --- [main] o.s.c.n.e.s.EurekaServiceRegistry : Registering application GFTBANK-ZUUL with eureka with sta
tus UP
2020-05-31 16:31:06.386 INFO 21880 --- [main] com.netflix.discovery.DiscoveryClient : saw local status change event StatusChangeEvent [timestam
p=1590960666386, current=UP, previous=STARTING]
2020-05-31 16:31:06.388 INFO 21880 --- [nfoRepliator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GFTBANK-ZUUL/host.docker.internal:gftbank
-zuul:8080: registering service...
2020-05-31 16:31:06.426 INFO 21880 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path
/
2020-05-31 16:31:06.427 INFO 21880 --- [nfoRepliator-0] s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8080
2020-05-31 16:31:06.427 INFO 21880 --- [nfoRepliator-0] com.netflix.discovery.DiscoveryClient : DiscoveryClient_GFTBANK-ZUUL/host.docker.internal:gftbank
-zuul:8080 - registration status: 204
2020-05-31 16:31:06.781 INFO 21880 --- [main] c.gft.bank.zuul.GftbankZuulApplication : Started GftbankZuulApplication in 7.031 seconds (JVM runn
ing)
<-----> 75% EXECUTING [26s]
<-----> 75% EXECUTING [23s]
> .bootRun
```

➤ PRUEBAS

○ CLIENTES:

▪ CREATE:

POST

http://localhost:8080/gftbank/create-customer

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

{

2

"nombre": "Alaril",

3

"apellidos": "Valle Méndez",

4

"fechaNacimiento": "1934-08-13",

5

"sexo": "M"

6

}

Body

Cookies (1)

Headers (5)

Test Results

Status: 201 Created

Time: 22 ms

Size: 284 B

San

Pretty

Raw

Preview

Visualize

JSON

1

{

2

"id": 2,

3

"nombre": "Alaril",

4

"apellidos": "Valle Méndez",

5

"fechaNacimiento": "1934-08-13T00:00:00+00:00",

6

"sexo": "M"

7

}

▪ READ-ALL:

GET http://localhost:8080/gftbank/all-customers

Params Authorization Headers (7) Body Pre-request Script Test Results

Query Params

KEY	VALUE
Key	Value

Body Cookies (1) Headers (5) Test Results

Pretty Raw Preview Visualize JSON ↺

```
1 [
2   {
3     "id": 1,
4     "nombre": "Sebastián",
5     "apellidos": "Rodarte Valle",
6     "fechaNacimiento": "1986-06-15T00:00:00.000+00:00",
7     "sexo": "M"
8   },
9   {
10    "id": 2,
11    "nombre": "Alarii",
12    "apellidos": "Valle Méndez",
13    "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
14    "sexo": "M"
15  }
16 ]
```

▪ READ-ONE:

GET http://localhost:8080/gftbank/read-customer/1

Params Authorization Headers (7) Body Pre-request Script Test Results

Query Params

KEY	VALUE
Key	Value

Body Cookies (1) Headers (5) Test Results

Pretty Raw Preview Visualize JSON ↺

```
1 {
2   "id": 1,
3   "nombre": "Sebastián",
4   "apellidos": "Rodarte Valle",
5   "fechaNacimiento": "1986-06-15T00:00:00.000+00:00",
6   "sexo": "M"
7 }
```


■ UPDATE:

PUT

http://localhost:8080/gftbank/update-customer/1

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

{

2

"nombre": "Ana Guillermina",

3

"apellidos": "Valle Patiño",

4

"fechaNacimiento": "1959-06-19",

5

"sexo": "F"

6

}

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OK

Time: 39 ms

Size: 288 B

Pretty

Raw

Preview

Visualize

JSON

1

{

2

"id": 1,

3

"nombre": "Ana Guillermina",

4

"apellidos": "Valle Patiño",

5

"fechaNacimiento": "1959-06-19T00:00:00.000+00:00",

6

"sexo": "F"

7

}

■ DELETE:

DELETE

http://localhost:8080/gftbank/delete-customer/1

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OK

Time: 38 ms

Size: 288 B

Pretty

Raw

Preview

Visualize

JSON

1

{

2

"id": 1,

3

"nombre": "Ana Guillermina",

4

"apellidos": "Valle Patiño",

5

"fechaNacimiento": "1959-06-19T00:00:00.000+00:00",

6

"sexo": "F"

7

}

GET

http://localhost:8080/gftbank/all-customers

Params

Authorization

Headers (7)

Body

Pre-request Script

Query Params

KEY	VALUE
Key	Va

Body

Cookies (1)

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

JSON

1

[

2

{

3

"id": 2,

4

"nombre": "Alaraii",

5

"apellidos": "Valle Méndez",

6

"fechaNacimiento": "1934-08-13T00:00:00.000+00:00",

7

"sexo": "M"

8

}

9

]

○ **CUENTAS:**

- **CREATE:**

POST

http://localhost:8080/gftbank/create-account

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

{

2

"numeroCuenta": "00002",

3

"saldo": 4700.00,

4

"tipoProducto": "Normal",

5

"clienteId": {

6

"id": 2,

7

"nombre": "Alarii",

8

"apellidos": "Valle Méndez",

9

"fechaNacimiento": "1934-08-13",

10

"sexo": "M"

11

}

12

}

Body

Cookies (1)

Headers (5)

Test Results

Status: 201 Created

Time: 20 ms

Size: 367 B

Pretty

Raw

Preview

Visualize

JSON

1

[

2

{

3

"id": 2,

4

"numeroCuenta": "00002",

5

"saldo": 4700.0,

6

"tipoProducto": "Normal",

7

"clienteId": {

8

"id": 2,

9

"nombre": "Alarii",

10

"apellidos": "Valle Méndez",

11

"fechaNacimiento": "1934-08-13T00:00:00.000+00:00",

12

"sexo": "M"

13

}

14

}

15

]

- **READ-ALL:**

GET

http://localhost:8080/gftbank/all-accounts

Params

Authorization

Headers (7)

Body

Pre-request Script

Te

Query Params

	KEY	VALUE
	Key	Value

Body

Cookies (1)

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

JSON

1

[

2

{

3

"id": 1,

4

"numeroCuenta": "00001",

5

"saldo": 800.5,

6

"tipoProducto": "Premium",

7

"clienteId": {

8

"id": 2,

9

"nombre": "Alarii",

10

"apellidos": "Valle Méndez",

11

"fechaNacimiento": "1934-08-13T00:00:00.000+00:00",

12

"sexo": "M"

13

}

14

},

15

{

16

"id": 2,

17

"numeroCuenta": "00002",

18

"saldo": 4700.0,

19

"tipoProducto": "Normal",

20

"clienteId": {

21

"id": 2,

■ READ-ONE:

GET

http://localhost:8080/gftbank/read-account/1

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Query Params

	KEY	VALUE
	Key	Value

Body

Cookies (1)

Headers (5)

Test Results

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "id": 1,
3   "numeroCuenta": "00001",
4   "saldo": 800.5,
5   "tipoProducto": "Premium",
6   "clienteId": {
7     "id": 2,
8     "nombre": "Alarii",
9     "apellidos": "Valle Méndez",
10    "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
11    "sexo": "M"
12  }
13 }
```

■ UPDATE:

PUT

http://localhost:8080/gftbank/update-account/1

Send

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

```
1 {
2   "numeroCuenta": "00003",
3   "saldo": 3333.50,
4   "tipoProducto": "Preferente",
5   "clienteId": {
6     "id": 2,
7     "nombre": "Alarii",
8     "apellidos": "Valle Méndez",
9     "fechaNacimiento": "1934-08-13",
10    "sexo": "M"
11  }
12 }
```

Body

Cookies (1)

Headers (5)

Test Results

Status: 200 OKTime: 45 msSize: 366 B

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "id": 1,
3   "numeroCuenta": "00003",
4   "saldo": 3333.5,
5   "tipoProducto": "Preferente",
6   "clienteId": {
7     "id": 2,
8     "nombre": "Alarii",
9     "apellidos": "Valle Méndez",
10    "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
11    "sexo": "M"
12  }
13 }
```

■ DELETE:

GET

http://localhost:8080/gftbank/all-accounts

KEY	VALUE
Key	Value

BodyCookies (1)Headers (5)Test Results

PrettyRawPreviewVisualizeJSON

```
1 [{
2   {
3     "id": 1,
4     "numeroCuenta": "00003",
5     "saldo": 3333.5,
6     "tipoProducto": "Preferente",
7     "clienteId": {
8       "id": 2,
9       "nombre": "Alarii",
10      "apellidos": "Valle Méndez",
11      "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
12      "sexo": "M"
13    }
14  },
15  {
16    "id": 2,
17    "numeroCuenta": "00002",
18    "saldo": 4700.0,
19    "tipoProducto": "Normal",
20    "clienteId": {
21      "id": 2,
22      "nombre": "Alarii",
23      "apellidos": "Valle Méndez",
24      "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
25      "sexo": "M"
26    }
27  }
28 }]
```

DELETE

http://localhost:8080/gftbank/delete-account/1

Send

ParamsAuthorizationHeaders (7)BodyPre-request ScriptTestsSettings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

BodyCookies (1)Headers (5)Test Results

PrettyRawPreviewVisualizeJSON

```
1 [{
2   "id": 1,
3   "numeroCuenta": "00003",
4   "saldo": 3333.5,
5   "tipoProducto": "Preferente",
6   "clienteId": {
7     "id": 2,
8     "nombre": "Alarii",
9     "apellidos": "Valle Méndez",
10    "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
11    "sexo": "M"
12  }
13 }]
```

GET

http://localhost:8080/gftbank/all-accounts

KEY	VALUE
Key	Value

BodyCookies (1)Headers (5)Test Results

PrettyRawPreviewVisualizeJSON

```
1 [
2   {
3     "id": 2,
4     "numeroCuenta": "00002",
5     "saldo": 4700.0,
6     "tipoProducto": "Normal",
7     "clienteId": {
8       "id": 2,
9       "nombre": "Alarii",
10      "apellidos": "Valle Méndez",
11      "fechaNacimiento": "1934-08-13T00:00:00.000+00:00",
12      "sexo": "M"
13    }
14  }
15 ]
```