

## EVIDENCIAS FINAL BACKEND MICROSERVICIOS

### RABBITMQ

- Evidencia de mensajes listados en la cola **MovieQueue** sin que el servicio Movie lo haya leído.

Overview Connections Channels Exchanges **Queues and Streams** Admin

Ack Mode:

Encoding:  ?

Messages:

**Get Message(s)**

Message 1

The server reported 0 messages remaining.

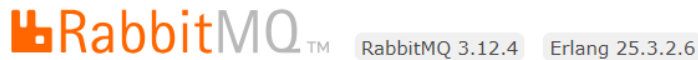
Exchange	(AMQP default)
Routing Key	MovieQueue
Redelivered	•
Properties	priority: 0 delivery_mode: 2 headers: __TypeId__: com.dh.catalogservice.model.Movie b3: 3a5c4e9590a1b507-2931fb205cdf3e44-1 content_encoding: UTF-8 content_type: application/json
Payload 90 bytes Encoding: string	{"id":5,"name":"Donde estan las rubias 2","genre":"Comedia","urlStream":"www.netflix.com"}

▼ Move messages

To move messages, the shovel plugin must be enabled, try:

```
$ rabbitmq-plugins enable rabbitmq_shovel rabbitmq_shovel_management
```

### Colas de servicios Movie y Series



Overview Connections Channels Exchanges **Queues and Streams** Admin

## Queues

▼ All queues (2)

Pagination



Page  of 1 - Filter:  ☐ Regex ?


Overview					Messages			Message rates	
Virtual host	Name	Type	Features	State	Ready	Unacked	Total	incoming	deli
/	MovieQueue	classic	<span>D</span>	idle	0	0	0	0.00/s	
/	SerieQueue	classic	<span>D</span>	idle	0	0	0	0.00/s	

▼ Add a new queue

## ZIPKIN

- Consulta por género desde el servicio de **Catalog**

FinalMicroservicios / Catalog Genre  


GET  http://localhost:56869/catalog/terror

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE
Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON 

```
1 {
2   "movie": [
3     {
4       "id": 1,
5       "name": "Película 1",
6       "genre": "Terror",
7       "urlStream": "www.netflix.com"
8     },
9     {
10      "id": 2,
11      "name": "Película 2",
12      "genre": "Terror",
13      "urlStream": "www.netflix.com"
14    }
15  ],
16  "serie": [
17    {
18      "id": "55010530-a1f7-46cb-9879-d3b4ecfd62b6",
19      "name": "Serie A",
20      "urlStream": "www.netflix.com"
21    }
22  ]
23 }
```

## Trazabilidad Dashboard

### Raíz

^ catalog-service: get /catalog/{genre}

catalog-service (3)

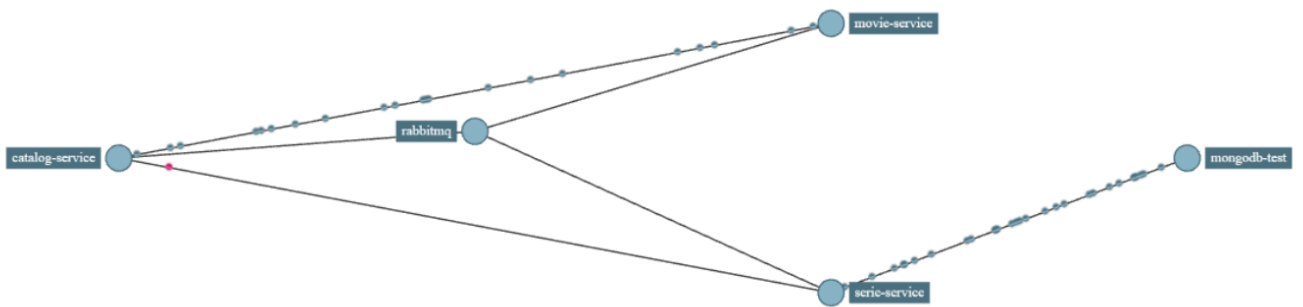
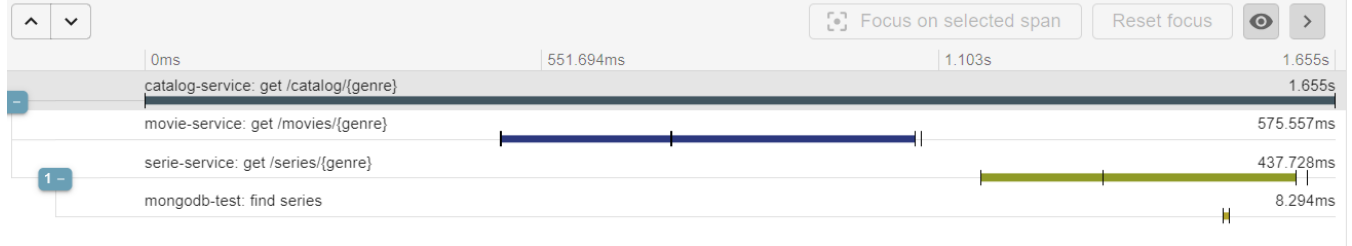
serie-service (2)

movie-service (1)

mongodb-test (1)

catalog-service: get /catalog/{genre}

Duración 1.655s | Servicios 4 | Tramos Totales 4 | ID de Trazo d7612f6f072a1e6c





- Consulta por género de Movie desde el Gateway



## RESILIENCE4J

Se toma el servicio de Movies para realizarle la configuración de Circuit Breaker, con su Retry y Método de Fallback. Se toma este debido a que si Catalogo quiere consultar tanto películas como por genero a nivel general se puede dar el escenario en el que el servicio Movie del cual depende Catalogo se caiga y genere fallo en la aplicación, por tal razón se simula y se responde en caso de falla con información vacía para que así no se afecte la operación de la aplicación.

[FinalMicroservicios](#) / **Catalog Movie**  

GET



http://localhost:61791/catalog/movie/comedia

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Setting



none



form-data



x-www-form-urlencoded



raw



binary



GraphQL

This request does no

Body

Cookies

Headers (4)

Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1 {
2   "timestamp": "2023-09-15T00:03:11.512+00:00",
3   "status": 500,
4   "error": "Internal Server Error",
5   "trace": "feign.FeignException$InternalServerError: [500] during
    [IMovieClient#getMovieByGenre(String,Boolean)]: [{\"timestamp
    \\\"error\\\":\\\"Internal Server Error\\\",\\\"path\\\":\\\"/movies/comed
    (FeignException.java:250)\\r\\n\\tat feign.FeignException.error
    errorStatus(FeignException.java:185)\\r\\n\\tat feign.codec.Err
    AsyncResponseHandler.handleResponse(AsyncResponseHandler.jav
    (SynchronousMethodHandler.java:141)\\r\\n\\tat feign.Synchronou
    feign.ReflectiveFeign$FeignInvocationHandler.invoke(Reflecti
    getMovieByGenre(Unknown Source)\\r\\n\\tat com.dh.catalogservic
```

GET



http://localhost:61791/catalog/movie/comedia

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

☒ none ☐ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

This request

Body

Cookies

Headers (4)

Test Results

Pretty

Raw

Preview

Visualize

JSON



1



```
2023-09-14 18:59:38.400 INFO [catalog-service,fcblc2fe1e024bdd,fcblc2fe1e024bdd] 34168 --- [-auto-1-exec-10] c.d.c.controller.CatalogController : Calling movie service...
2023-09-14 18:59:39.424 INFO [catalog-service,fcblc2fe1e024bdd,fcblc2fe1e024bdd] 34168 --- [-auto-1-exec-10] c.d.c.controller.CatalogController : Calling movie service...
2023-09-14 18:59:40.436 INFO [catalog-service,fcblc2fe1e024bdd,fcblc2fe1e024bdd] 34168 --- [-auto-1-exec-10] c.d.c.controller.CatalogController : Calling movie service...
```

```

1 // 20230914185514
2 // http://192.168.10.189:61791/actuator/health
3
4 {
5   "status": "UP",
6   "components": {
7     "circuitBreakers": {
8       "status": "UP",
9       "details": {
10        "movies": {
11          "status": "UP",
12          "details": {
13            "failureRate": "-1.0%",
14            "failureRateThreshold": "50.0%",
15            "slowCallRate": "-1.0%",
16            "slowCallRateThreshold": "100.0%",
17            "bufferedCalls": 0,
18            "slowCalls": 0,
19            "slowFailedCalls": 0,
20            "failedCalls": 0,
21            "notPermittedCalls": 0,
22            "state": "CLOSED"
23          }
24        }
25      }
26    },
27    "clientConfigServer": {
28      "status": "UP",
29      "details": {

```

```

1 // 20230914185957
2 // http://192.168.10.189:61791/actuator/health
3
4 {
5   "status": "UP",
6   "components": {
7     "circuitBreakers": {
8       "status": "UNKNOWN",
9       "details": {
10        "movies": {
11          "status": "CIRCUIT_HALF_OPEN",
12          "details": {
13            "failureRate": "-1.0%",
14            "failureRateThreshold": "50.0%",
15            "slowCallRate": "-1.0%",
16            "slowCallRateThreshold": "100.0%",
17            "bufferedCalls": 0,
18            "slowCalls": 0,
19            "slowFailedCalls": 0,
20            "failedCalls": 0,
21            "notPermittedCalls": 0,
22            "state": "HALF_OPEN"
23          }
24        }
25      }
26    },
27    "clientConfigServer": {
28      "status": "UP",

```

```
1 // 20230914185722
2 // http://192.168.10.189:61791/actuator/health
3
4 {
5   "status": "UP",
6   "components": {
7     "circuitBreakers": {
8       "status": "UNKNOWN",
9       "details": {
10        "movies": {
11          "status": "CIRCUIT_OPEN",
12          "details": {
13            "failureRate": "100.0%",
14            "failureRateThreshold": "50.0%",
15            "slowCallRate": "0.0%",
16            "slowCallRateThreshold": "100.0%",
17            "bufferedCalls": 5,
18            "slowCalls": 0,
19            "slowFailedCalls": 0,
20            "failedCalls": 5,
21            "notPermittedCalls": 1,
22            "state": "OPEN"
23          }
24        }
25      }
26    },
27    "clientConfigServer": {
28      "status": "UP"
```