

# Report

For setting up everything you need to run following commands in root directory:

```
docker-compose build
```

```
docker-compose up -d
```

After it all needed services will be running in docker

You can access FacadeService via localhost:5000/swagger in your browser

## 1. Simple testing sending messages

- Send message with FacadeService

The screenshot shows the Swagger UI interface for the Facade service. At the top, it displays the URL `POST /api/Facade/send`. Below this, under the `Parameters` section, it says "No parameters". In the `Request body` section, there is a text area containing the following JSON:

```
{ "message": "Message 1" }
```

Below the request body, there are two buttons: `Execute` and `Clear`. Under the `Code` column, there is a table for the `200` response. The `Details` section shows the `Response body` as a JSON object with an `id` field, and the `Response headers` section shows the following headers:

```
content-type: application/json; charset=utf-8
date: Fri, 09 Mar 2025 22:57:50 GMT
server: Kestrel
transfer-encoding: chunked
```

Under the `Responses` section, there is a table with one row for the `200` response, which is described as "Success". The `Links` column for this row indicates "No links".

In docker we got:

```

microservices_messagequeue-facade-service-1
180012a9f54
5000:5000

Logs Inspect Bind mounts Exec Files Stats

2025-05-10 01:56:49 warn: Microsoft.AspNetCore.Hosting.Diagnostics[15]
2025-05-10 01:56:49   Overriding HTTP_PORTS '8080' and HTTPS_PORTS ''. Binding to values defined by URLs instead 'http://0.0.0.0:5000'.
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:49   Now listening on: http://0.0.0.0:5000
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49   Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49   Hosting environment: Development
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49   Content root path: /app
2025-05-10 01:57:48 warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
2025-05-10 01:57:48   Failed to determine the https port for redirect.
2025-05-10 01:57:49 [Facade] Produced to Kafka: Message 1
2025-05-10 01:57:49 info: System.Net.Http.HttpClientServiceDiscovery.LogicalHandler[100]
2025-05-10 01:57:49   Start processing HTTP request GET http://config-server:5001/api/config/LoggingService
2025-05-10 01:57:49 info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[100]
2025-05-10 01:57:49   Sending HTTP request GET http://config-server:5001/api/config/LoggingService
2025-05-10 01:57:49 info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[101]
2025-05-10 01:57:49   Received HTTP response headers after 71.537ms - 200
2025-05-10 01:57:49 info: System.Net.Http.HttpClient.ServiceDiscovery.LogicalHandler[101]
2025-05-10 01:57:49   End processing HTTP request after 90.347ms - 200
2025-05-10 01:57:49 [FacadeService] Attempting to send message to http://logging-service-2:5004: Message 1
2025-05-10 01:57:49 info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[100]
2025-05-10 01:57:49   Start processing HTTP request POST http://logging-service-2:5004/api/logging/log
2025-05-10 01:57:49 info: System.Net.Http.HttpClient.LoggingServiceClient.ClientHandler[100]
2025-05-10 01:57:49   Sending HTTP request POST http://logging-service-2:5004/api/logging/log
2025-05-10 01:57:50 info: System.Net.Http.HttpClient.LoggingServiceClient.ClientHandler[101]
2025-05-10 01:57:50   Received HTTP response headers after 316.919ms - 200
2025-05-10 01:57:50 info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[101]
2025-05-10 01:57:50   End processing HTTP request after 326.064ms - 200
2025-05-10 01:57:50 [FacadeService] Success with endpoint http://logging-service-2:5004

```

### - Check LoggingService 2:

```

microservices_messagequeue-logging-service-2-1
9d8056063b17
5004:5003

Logs Inspect Bind mounts Exec Files Stats

2025-05-10 01:56:52 [LoggingService] Registered at http://logging-service-2:5004 with ConfigServer.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:53   Now listening on: http://[::]:5004
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53   Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53   Hosting environment: Production
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53   Content root path: /app
2025-05-10 01:57:50 warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
2025-05-10 01:57:50   Failed to determine the https port for redirect.
2025-05-10 01:57:50 [LoggingService] New log received. ID: 69635cac-b510-4779-af0f-e122a4377c44, Message: Message 1

```

### - Check MessagesService:

```

microservices_messagequeue-messages-service-1-1
76ed029377d8
5002:5002

Logs Inspect Bind mounts Exec Files Stats

2025-05-10 01:56:49 [3] 1746831409.017[FAIL]rdkafka#consumer-1 [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] 1746831409.034[ERROR]rdkafka#consumer-1 [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] 1746831409.956[FAIL]rdkafka#consumer-1 [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] 1746831409.956[ERROR]rdkafka#consumer-1 [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:48 [MessagesService] Registered at http://messages-service-1:5002 with ConfigServer.
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:49   Now listening on: http://[::]:5002
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49   Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49   Hosting environment: Production
2025-05-10 01:56:49 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49   Content root path: /app
2025-05-10 01:56:50 [3] 1746831410.007[FAIL]rdkafka#consumer-1 [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:56:50 [3] 1746831410.007[ERROR]rdkafka#consumer-1 [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:56:50 [3] 1746831410.057[FAIL]rdkafka#consumer-1 [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] 1746831410.057[ERROR]rdkafka#consumer-1 [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] 1746831410.108[FAIL]rdkafka#consumer-1 [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] 1746831410.109[ERROR]rdkafka#consumer-1 [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] 1746831410.161[FAIL]rdkafka#consumer-1 [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] 1746831410.161[ERROR]rdkafka#consumer-1 [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:57:49 [MessagesService] Consumed: {"Id": "69635cac-b510-4779-af0f-e122a4377c44", "Message": "Message 1"}

```

We got the message in MessagesService 1 for this time

P.s. We got some error logs here, cause the MessagesService from the start is trying to access Kafka, but Kafka needs some time to be set up.

- Let's send 9 more messages and see which MessageServices/LogginServices will consume them:

### MessageService 1:

The screenshot shows the Docker container interface for the first message service. The container name is `microservices_messagequeue-messages-service-1-1`. The status is `Running (1 hour ago)`. The logs tab is selected, displaying the following log entries:

```

2025-05-10 01:56:49 [3] | 1746831409.017 | FAIL | rdkafka#consumer-1 | [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.034 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.956 | FAIL | rdkafka#consumer-1 | [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.956 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:50 [3] | 1746831409.007 | FAIL | rdkafka#consumer-1 | [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:56:50 [3] | 1746831409.007 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: 3/3 brokers are down
2025-05-10 01:56:50 [3] | 1746831409.007 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:56:50 [3] | 1746831409.057 | FAIL | rdkafka#consumer-1 | [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] | 1746831409.057 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] | 1746831409.108 | FAIL | rdkafka#consumer-1 | [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:56:50 [3] | 1746831409.109 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:56:50 [3] | 1746831409.161 | FAIL | rdkafka#consumer-1 | [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] | 1746831409.161 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [4] | [MessagesService] Registered at http://messages-service-1:5002 with ConfigServer.
2025-05-10 01:56:49 [Info] Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:49 Now listening on: http://[::]:5002
2025-05-10 01:56:49 [Info] Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49 Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:49 [Info] Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49 Hosting environment: Production
2025-05-10 01:56:49 [Info] Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:49 Content root path: /app
2025-05-10 01:57:49 [MessagesSvc] Consumed: {"Id": "69635cac-b510-4779-af0f-e122a4377c44", "Message": "Message 1"}
2025-05-10 01:59:43 [MessagesSvc] Consumed: {"Id": "72adada6-6c98-4029-a276-ba3905c44520", "Message": "Message 2"}
2025-05-10 02:59:57 [MessagesSvc] Consumed: {"Id": "3971bbaf-5492-44bf-bdbe-5f9be2dd04f6", "Message": "Message 3"}
2025-05-10 02:59:43 [MessagesSvc] Consumed: {"Id": "5679ec0e-b9d1-4569-a740-044b47e99f89", "Message": "Message 6"}
2025-05-10 03:00:25 [MessagesSvc] Consumed: {"Id": "28dfc3a8-0748-42ed-86c0-e1e85bd04e2ba", "Message": "Message 7"}
2025-05-10 03:00:30 [MessagesSvc] Consumed: {"Id": "d46028d9-32e7-4e3d-9313-e80521af962", "Message": "Message 8"}
2025-05-10 03:00:38 [MessagesSvc] Consumed: {"Id": "fedb4114-f558-437c-9ceb-77b406f26ce7", "Message": "Message 10"}

```

### MessageService 2:

The screenshot shows the Docker container interface for the second message service. The container name is `microservices_messagequeue-messages-service-2-1`. The status is `Running (1 hour ago)`. The logs tab is selected, displaying the following log entries:

```

2025-05-10 01:56:48 [3] | 1746831408.527 | FAIL | rdkafka#consumer-1 | [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:48 [3] | 1746831408.547 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.430 | FAIL | rdkafka#consumer-1 | [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.430 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.482 | FAIL | rdkafka#consumer-1 | [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 2ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.483 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 2ms in state CONNECT)
2025-05-10 01:56:49 [3] | 1746831409.531 | FAIL | rdkafka#consumer-1 | [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3] | 1746831409.531 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3] | 1746831409.685 | FAIL | rdkafka#consumer-1 | [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3] | 1746831409.685 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3] | 1746831409.097 | FAIL | rdkafka#consumer-1 | [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3] | 1746831409.097 | ERROR | rdkafka#consumer-1 | [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:48 [4] | [MessagesService] Registered at http://messages-service-2:5006 with ConfigServer.
2025-05-10 01:56:48 [Info] Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:48 Now listening on: http://[::]:5006
2025-05-10 01:56:48 [Info] Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:48 Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:48 [Info] Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:48 Hosting environment: Production
2025-05-10 01:56:48 [Info] Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:48 Content root path: /app
2025-05-10 03:00:03 [MessagesSvc] Consumed: {"Id": "ba037d79-c179-4631-89d9-c4d862693f8", "Message": "Message 4"}
2025-05-10 03:00:16 [MessagesSvc] Consumed: {"Id": "f489be29-9941-40b1-9da5-fb90c27e8af0", "Message": "Message 5"}
2025-05-10 03:00:34 [MessagesSvc] Consumed: {"Id": "78f1a093-d07b-4751-8cb6-edca30874fb7", "Message": "Message 9"}

```

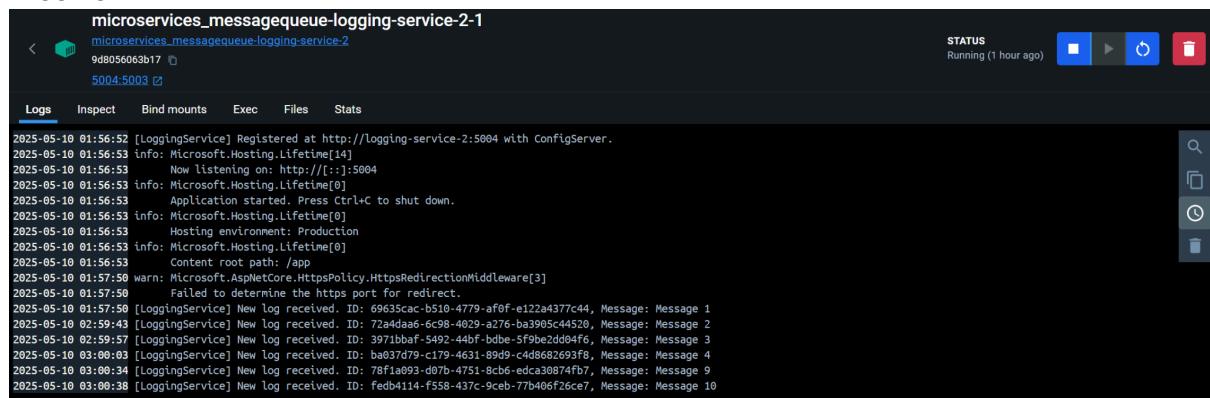
## LoggingService 1:



The screenshot shows the Docker container details for 'microservices\_messagequeue-logging-service-1-1'. The container ID is 55a29535984f, port 5003 is mapped to 5003, and it is running. The logs tab is selected, showing the following log output:

```
2025-05-10 01:56:52 [LoggingService] Registered at http://Logging-service-1:5003 with ConfigServer.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:53 Now listening on: http://[::]:5003
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Hosting environment: Production
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Content root path: /app
2025-05-10 03:00:16 warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
2025-05-10 03:00:16 Failed to determine the https port for redirect.
2025-05-10 03:00:19 [LoggingService] New log received. ID: f489be29-9941-40b1-9da5-fb90c27e8af0, Message: Message 5
2025-05-10 03:00:19 [LoggingService] New log received. ID: 5679ec0e-b9d1-4569-a740-044b47e99f89, Message: Message 6
```

## LoggingService 2:



The screenshot shows the Docker container details for 'microservices\_messagequeue-logging-service-2-1'. The container ID is 9d8056063b17, port 5004 is mapped to 5003, and it is running. The logs tab is selected, showing the following log output:

```
2025-05-10 01:56:52 [LoggingService] Registered at http://Logging-service-2:5004 with ConfigServer.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:53 Now listening on: http://[::]:5004
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Hosting environment: Production
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Content root path: /app
2025-05-10 01:57:50 warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
2025-05-10 01:57:50 Failed to determine the https port for redirect.
2025-05-10 01:57:50 [LoggingService] New log received. ID: 6963cac-b510-4779-e122a4377c44, Message: Message 1
2025-05-10 02:59:43 [LoggingService] New log received. ID: 724daa6-6c98-4029-a276-ba3905c44520, Message: Message 2
2025-05-10 02:59:57 [LoggingService] New log received. ID: 3971bbaf-5492-440f-bdbe-5f9be2dd04f6, Message: Message 3
2025-05-10 03:00:03 [LoggingService] New log received. ID: ba037d79-c179-4631-89d9-c4d6862693f8, Message: Message 4
2025-05-10 03:00:34 [LoggingService] New log received. ID: 78f1a093-d07b-4751-8cb6-edca30874fb7, Message: Message 9
2025-05-10 03:00:38 [LoggingService] New log received. ID: fedba114-f558-437c-9ceb-77b406f26ce7, Message: Message 10
```

## LoggingService 3:



The screenshot shows the Docker container details for 'microservices\_messagequeue-logging-service-3-1'. The container ID is 9934a5ab97e1, port 5005 is mapped to 5003, and it is running. The logs tab is selected, showing the following log output:

```
2025-05-10 01:56:52 [LoggingService] Registered at http://Logging-service-3:5005 with ConfigServer.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[14]
2025-05-10 01:56:53 Now listening on: http://[::]:5005
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Application started. Press Ctrl+C to shut down.
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Hosting environment: Production
2025-05-10 01:56:53 info: Microsoft.Hosting.Lifetime[0]
2025-05-10 01:56:53 Content root path: /app
2025-05-10 03:00:25 warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
2025-05-10 03:00:25 Failed to determine the https port for redirect.
2025-05-10 03:00:25 [LoggingService] New log received. ID: 28dfc3a8-0748-42ed-86c0-ee185b04e2ba, Message: Message 7
2025-05-10 03:00:30 [LoggingService] New log received. ID: d46028d9-32e7-4e3d-9313-e80521adf962, Message: Message 8
```

- Fetch messages from FacadeService:

**Responses**

Curl

```
curl -X 'GET' \
  'http://localhost:5000/api/Facade/fetch' \
  -H "Accept: */*
```

Request URL

```
http://localhost:5000/api/Facade/fetch
```

Server response

| Code      | Details  | Links                    |
|-----------|--|--------------------------|
| 200       | <p>Response body</p> <pre>{   "logs": [     "Message 3",     "Message 8",     "Message 7",     "Message 4",     "Message 2",     "Message 9",     "Message 5",     "Message 6",     "Message 10",     "Message 1"   ],   "nextMessage": "[{"Id":":":f7d86491-40ae-4690-823b-41daf3407590"}, {"Message":":Message 1"}, {"Id":":79ef109c-e378-4bae-837f-a9a419cce23}, {"Message":":Message 2}, {"Id":":87b4d65-ebf6-4698-b637-689593e7fc5f}, {"Message":":Message 3}, {"Id":":3d95cc90-d5f8-43a0-947f-a62bd6d08027}, {"Message":":Message 4}, {"Id":":5928beb8-6119-422e-bf81-7f266f02c0c1}, {"Message":":Message 5}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 6}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 7}, {"Id":":5928beb8-6119-422e-bf81-7f266f02c0c1}, {"Message":":Message 8}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 9}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 10}]"}</pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8 date: Sat, 10 May 2025 12:57:08 GMT server: Kestrel transfer-encoding: chunked</pre> | <a href="#">Download</a> |
| Responses |  |                          |
| Code      | Description  | Links                    |
| 200       | Success  | No links                 |

2025-05-10 15:57:08 [FacadeService] Received logs from http://logging-service-1:5003: Message 3  
2025-05-10 15:57:08 Message 8  
2025-05-10 15:57:08 Message 7  
2025-05-10 15:57:08 Message 4  
2025-05-10 15:57:08 Message 2  
2025-05-10 15:57:08 Message 9  
2025-05-10 15:57:08 Message 5  
2025-05-10 15:57:08 Message 6  
2025-05-10 15:57:08 Message 10  
2025-05-10 15:57:08 Message 1  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.ServiceDiscovery.LogicalHandler[100]  
2025-05-10 15:57:08 Start processing HTTP request GET http://config-server:5001/api/config/MessagesService  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[100]  
2025-05-10 15:57:08 Sending HTTP request GET http://config-server:5001/api/config/MessagesService  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[101]  
2025-05-10 15:57:08 Received HTTP response headers after 2.2092ms - 200  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.HttpClientDiscovery.LogicalHandler[101]  
2025-05-10 15:57:08 End processing HTTP request after 2.4043ms - 200  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.LoggingServiceclient.LogicalHandler[100]  
2025-05-10 15:57:08 Start processing HTTP request GET http://messages-service-1:5002/api/Messages/message  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.LoggingServiceclient.ClientHandler[100]  
2025-05-10 15:57:08 Sending HTTP request GET http://messages-service-1:5002/api/Messages/message  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.LoggingServiceclient.ClientHandler[101]  
2025-05-10 15:57:08 Received HTTP response headers after 405.5428ms - 200  
2025-05-10 15:57:08 Info: System.Net.Http.HttpClient.LoggingServiceclient.LogicalHandler[101]  
2025-05-10 15:57:08 End processing HTTP request after 405.8183ms - 200  
2025-05-10 15:57:08 [FacadeService] Received message from http://messages-service-1:5002: [{"Id":":f7d86491-40ae-4690-823b-41daf3407590}, {"Message":":Message 1}, {"Id":":79ef109c-e378-4bae-837f-a9a419cce23}, {"Message":":Message 2}, {"Id":":87b4d65-ebf6-4698-b637-689593e7fc5f}, {"Message":":Message 3}, {"Id":":3d95cc90-d5f8-43a0-947f-a62bd6d08027}, {"Message":":Message 4}, {"Id":":5928beb8-6119-422e-bf81-7f266f02c0c1}, {"Message":":Message 5}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 6}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 7}, {"Id":":5928beb8-6119-422e-bf81-7f266f02c0c1}, {"Message":":Message 8}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 9}, {"Id":":135cf9ba-832d-4095-b2c7-92da392e0b41}, {"Message":":Message 10}]"}

## 2. Checking the fault tolerance of the message queue

- Find out who is a leader:

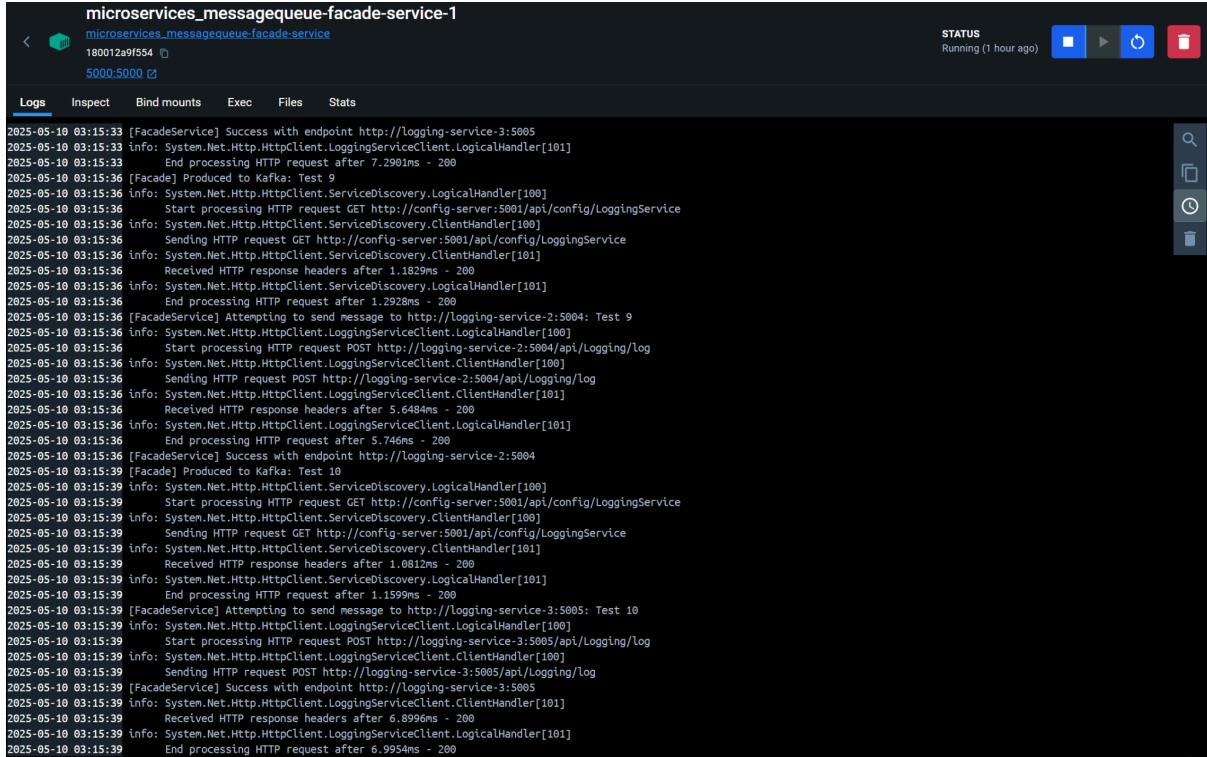
```
[Admin@DESKTOP-IC64Q6P] [~\..\..\..\..\microservices_messagequeue]-(#) (9.0.203)(0)-[ 100%]-[ 10,03:10]
└─[ master • ?1]- docker-compose exec kafka-1 kafka-topics --bootstrap-server kafka-1:9092 --describe --topic messages | Select-String "Partition: 0"
time="2025-05-10T03:11:37+03:00" level=warning msg="C:\\Users\\Admin\\source\\repos\\MicroserviceSolution\\microservices_messagequeue\\docker-compose.yml: `version` is obsolete"

Topic: messages Partition: 0 Leader: 1 Replicas: 1,2,3 Isr: 1,2,3 Elr: N/A LastKnownElr: N/A
```

- Shutdown MessageServices:

|  |              |   |         |           |       |            |   |
|--|--------------|---|---------|-----------|-------|------------|---|
|  config-server-1      | 5e9babbf4031 | microservices_messagequeue-config-server      | Running | 5001:5001 | 0.07% | 1 hour ago |  |
|  messages-service-1-1 | 76ed029377d8 | microservices_messagequeue-messages-service-1 | Exited  | 5002:5002 | 0%    | 1 hour ago |  |
|  logging-service-3-1  | 9934a5a897e1 | microservices_messagequeue-logging-service-3  | Running | 5005:5003 | 0.22% | 1 hour ago |  |
|  messages-service-2-1 | 4b60f52590bd | microservices_messagequeue-messages-service-2 | Exited  | 5006:5002 | 0%    | 1 hour ago |  |

- Produce 10 messages “Test N” using FacadeService:



```

microservices_messagequeue-facade-service-1
microservices_messagequeue-facade-service
180012a9f554
5000:5000

Logs Inspect Bind mounts Exec Files Stats
STATUS Running (1 hour ago) 
2025-05-10 03:15:33 [FacadeService] Success with endpoint http://logging-service-3:5005
2025-05-10 03:15:33 Info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[101]
2025-05-10 03:15:33 End processing HTTP request after 7.2901ms - 200
2025-05-10 03:15:36 [Facade] Produced to Kafka: Test 9
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.ServiceDiscovery.LogicalHandler[100]
2025-05-10 03:15:36 Start processing HTTP request GET http://config-server:5001/api/config/LoggingService
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[100]
2025-05-10 03:15:36 Sending HTTP request GET http://config-server:5001/api/config/LoggingService
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[101]
2025-05-10 03:15:36 Received HTTP response headers after 1.1829ms - 200
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.ServiceDiscovery.LogicalHandler[101]
2025-05-10 03:15:36 End processing HTTP request after 1.2928ms - 200
2025-05-10 03:15:36 [FacadeService] Attempting to send message to http://logging-service-2:5004: Test 9
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[100]
2025-05-10 03:15:36 Start processing HTTP request POST http://logging-service-2:5004/api/logging/log
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.LoggingServiceClient.ClientHandler[100]
2025-05-10 03:15:36 Sending HTTP request POST http://logging-service-2:5004/api/logging/log
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.LoggingServiceClient.ClientHandler[101]
2025-05-10 03:15:36 Received HTTP response headers after 5.6484ms - 200
2025-05-10 03:15:36 Info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[101]
2025-05-10 03:15:36 End processing HTTP request after 5.746ms - 200
2025-05-10 03:15:36 [FacadeService] Success with endpoint http://logging-service-2:5004
2025-05-10 03:15:39 [Facade] Produced to Kafka: Test 10
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.ServiceDiscovery.LogicalHandler[100]
2025-05-10 03:15:39 Start processing HTTP request GET http://config-server:5001/api/config/LoggingService
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[100]
2025-05-10 03:15:39 Sending HTTP request GET http://config-server:5001/api/config/LoggingService
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.ServiceDiscovery.ClientHandler[101]
2025-05-10 03:15:39 Received HTTP response headers after 1.0812ms - 200
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.ServiceDiscovery.LogicalHandler[101]
2025-05-10 03:15:39 End processing HTTP request after 1.1599ms - 200
2025-05-10 03:15:39 [FacadeService] Attempting to send message to http://logging-service-3:5005: Test 10
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[100]
2025-05-10 03:15:39 Start processing HTTP request POST http://logging-service-3:5005/api/logging/log
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.LoggingServiceClient.ClientHandler[100]
2025-05-10 03:15:39 Sending HTTP request POST http://logging-service-3:5005/api/logging/log
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.LoggingServiceClient.ClientHandler[101]
2025-05-10 03:15:39 Received HTTP response headers after 6.8996ms - 200
2025-05-10 03:15:39 Info: System.Net.Http.HttpClient.LoggingServiceClient.LogicalHandler[101]
2025-05-10 03:15:39 End processing HTTP request after 6.9954ms - 200

```

- Shutdown leader Kafka 1:

|   |              |                              |              |           |       |            |   |
|---|--------------|------------------------------|--------------|-----------|-------|------------|---|
|  kafka-3-1 | efdc32a18881 | confluentinc/cp-kafka:latest | Running      | 9094:9092 | 6.19% | 1 hour ago |  |
|  kafka-1-1 | 66d018b5b4dd | confluentinc/cp-kafka:latest | Exited (143) | 9092:9092 | 0%    | 1 hour ago |  |
|  kafka-2-1 | 4992:4992    | confluentinc/cp-kafka:latest | Running      | 9093:9092 | 6.11% | 1 hour ago |  |

- Start MessagesServices and see what we get:

MessagesService 1:

**microservices\_messagequeue-messages-service-1-1**

microservices\_messagequeue-messages-service-1-1  
76ed029377d8  
5002-5002

**Logs** **Inspect** **Bind mounts** **Exec** **Files** **Stats**

```
state CONNECT)
2025-05-10 01:56:50 [3|1746831410.007|ERROR|rdkafka#consumer-1| [thrd:kafka-2:9092/bootstrap]: 3/3 brokers are down
2025-05-10 01:56:50 [3|1746831410.007|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT)
2025-05-10 01:57:49 [MessagesSvc] Consumed: ["Id": "6963c5ac-b510-4779-af0f-e122a377c44", "Message": "Message 1"]
2025-05-10 01:59:43 [MessagesSvc] Consumed: ["Id": "72ad0aa6-6c98-4029-a276-ba3905c44520", "Message": "Message 2"]
2025-05-10 02:59:57 [MessagesSvc] Consumed: ["Id": "3971bbaf-5492-44bf-bdb8-5fbbe2d04f6", "Message": "Message 3"]
2025-05-10 03:00:19 [MessagesSvc] Consumed: ["Id": "5679ec0e-bd11-4569-a740-04ab7e99f89", "Message": "Message 6"]
2025-05-10 03:00:49 [MessagesSvc] Consumed: ["Id": "28dfc3a8-0748-42e0-86c0-e185b04e2ba", "Message": "Message 7"]
2025-05-10 03:00:50 [MessagesSvc] Consumed: ["Id": "d46628d9-32e7-4e3d-9313-e8b521af962", "Message": "Message 8"]
2025-05-10 03:00:50 [MessagesSvc] Consumed: ["Id": "fedb4114-f588-437c-9ceb-77b406f26ce7", "Message": "Message 10"]
2025-05-10 03:14:48 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:14:48 Application is shutting down...
2025-05-10 03:14:48 [MessagesService] Unregistered http://messages-service-1:5002 from ConfigServer.
2025-05-10 03:14:49 [MessagesSvc] Consumer error: The operation was canceled.. Retrying in is...
2025-05-10 03:17:50 [MessagesService] Registered at http://messages-service-1:5002 with ConfigServer.
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[14]
2025-05-10 03:17:51 Now listening on: http://[::]:5002
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:17:51 Application started. Press Ctrl+C to shut down.
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:17:51 Hosting environment: Production
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:17:51 Content root path: /app
2025-05-10 01:56:50 [3|1746831410.057|FAIL|rdkafka#consumer-1| [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.057|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.108|FAIL|rdkafka#consumer-1| [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.109|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.161|FAIL|rdkafka#consumer-1| [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.161|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "91e8993-4821-4f20-9f75-969be8de22b", "Message": "Test 1"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "5e39bd048-be93-4c5b-bf25-13b349803e12", "Message": "Test 2"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "31c23138-fa0a-43de-bb60-247f073d2f2b", "Message": "Test 5"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "97c22077-d45d-4c44-93da-5d4cd415bcac", "Message": "Test 8"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "cd593996f-89c6-4ba4-b359-ce06572e3244", "Message": "Test 10"]
```

## MessagesService 2:

**microservices\_messagequeue-messages-service-2-1**

microservices\_messagequeue-messages-service-2-1  
4b60f5259098d  
5006-5006

**Logs** **Inspect** **Bind mounts** **Exec** **Files** **Stats**

```
2025-05-10 03:14:47 [MessagesService] Unregistered http://messages-service-2:5006 from ConfigServer.
2025-05-10 01:56:48 [3|1746831408.527|FAIL|rdkafka#consumer-1| [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:48 [3|1746831409.547|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3|1746831409.430|FAIL|rdkafka#consumer-1| [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3|1746831409.430|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 1ms in state CONNECT)
2025-05-10 01:56:49 [3|1746831409.482|FAIL|rdkafka#consumer-1| [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 2ms in state CONNECT)
2025-05-10 01:56:49 [3|1746831409.483|ERROR|rdkafka#consumer-1| [thrd:kafka-1:9092/bootstrap]: 3/3 brokers are down
2025-05-10 01:56:49 [3|1746831409.483|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 2ms in state CONNECT)
2025-05-10 01:56:49 [3|1746831409.531|FAIL|rdkafka#consumer-1| [thrd:kafka-1:9092/bootstrap]: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3|1746831409.531|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-1:9092/bootstrap: Connect to ipv4#172.20.0.6:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3|1746831409.685|FAIL|rdkafka#consumer-1| [thrd:kafka-3:9092/bootstrap]: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:49 [3|1746831409.685|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-3:9092/bootstrap: Connect to ipv4#172.20.0.7:9092 failed: Connection refused (after 0ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.097|FAIL|rdkafka#consumer-1| [thrd:kafka-2:9092/bootstrap]: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 01:56:50 [3|1746831410.097|ERROR|rdkafka#consumer-1| [thrd:app]: rdkafka#consumer-1: kafka-2:9092/bootstrap: Connect to ipv4#172.20.0.4:9092 failed: Connection refused (after 1ms in state CONNECT, 1 identical error(s) suppressed)
2025-05-10 03:14:47 [MessagesService] Consumer error: The operation was canceled.. Retrying in is...
2025-05-10 03:17:50 [MessagesService] Registered at http://messages-service-2:5006 with ConfigServer.
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[14]
2025-05-10 03:17:51 Now listening on: http://[::]:5006
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:17:51 Application started. Press Ctrl+C to shut down.
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:17:51 Hosting environment: Production
2025-05-10 03:17:51 [Info: Microsoft.Hosting.Lifetime[0]
2025-05-10 03:17:51 Content root path: /app
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "1107dbe5-2d64-40a8-a56c-831ae78f1c6b", "Message": "Test 3"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "da217b2c-78de-4cb8-8a7c-d3572bfe6e5f", "Message": "Test 4"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "40aaebd-bc28-4fce-8b20-fe73bdaa910", "Message": "Test 5"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "98c299f7-b051-485b-b101-0f7b64964b72", "Message": "Test 7"]
2025-05-10 03:17:54 [MessagesSvc] Consumed: ["Id": "cb8305f2-2655-49ac-a868-5ff4fe4446e3", "Message": "Test 9"]
```

As we see everything works now!