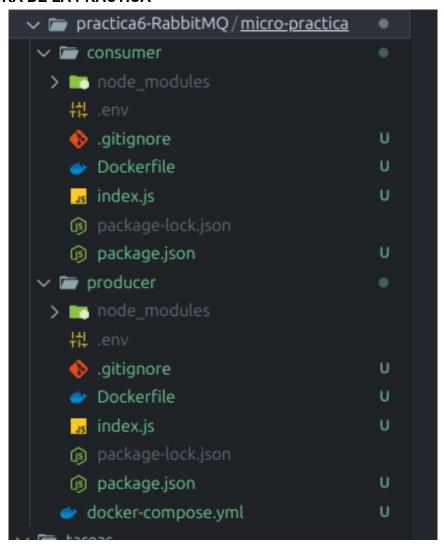
# Práctica guiada microservicios con RabbitMQ (Docker) microservicios en Node.js:

Nombre: Gonzales Suyo Franz Reinaldo

**C.U.** 111-500 - 35-5335

PROBAR PRUEBAS DE LAS PRÁCTICAS ESTRUCTURA DE LA PRÁCTICA



#### 1. Asegúrate RabbitMQ levantado

```
₽ main ? ) 005:44
rabbitmq-1 | 2025-10-02 09:41:41.373496+00:00 [info] <0.283.0> ra: meta data store initialised for system coordination. 0 record(s) recovered
rabbitmq-1 | 2025-10-02 09:41:41.373603+00:00 [notice] <0.288.0> WAL: ra_coordination_log_wal init, open tbls: ra_coordination_log_open_mem_tables,
closed tbls: ra_coordination_log_closed_mem_tables
rabbitmg-1 | 2025-10-02 09:41:41.374868+00:00 [info] <0.254.0> ra: starting system coordination
rabbitmq-1 | 2025-10-02 09:41:41.374917+00:00 [info] <0.254.0> starting Ra system: coordination in directory: /var/lib/rabbitmq/mnesia/rabbit@3fcb4
ea28f9c/coordination/rabbit@3fcb4ea28f9c
rabbitmq-1 | 2025-10-02 09:41:41.454148+00:00 [info] <0.254.0> Waiting for Khepri leader for 30000 ms, 9 retries left
rabbitmq-1 | 2025-10-02 09:41:41.458165+00:00 [notice] <0.292.8> RabbitmQ metadata store: candidate -> leader in term: 1 machine version: 1 rabbitmq-1 | 2025-10-02 09:41:41.467185+00:00 [info] <0.254.0> Khepri leader elected rabbitmq-1 | 2025-10-02 09:41:41.467271+00:00 [info] <0.254.0> Waiting for Khepri projections for 30000 ms, 9 retries left
rabbitmq-1 | 2025-10-02 09:41:41.642195+00:00 [info] <0.254.0>
             | 2025-10-02 09:41:41.642195+00:00 [info] <0.254.0> Starting RabbitMQ 3.13.7 on Erlang 26.2.5.15 [jit]
rabbitmq-1
             | 2025-10-02 09:41:41.642195+00:00 [info] <0.254.0> Copyright (c) 2007-2024 Broadcom Inc and/or its subsidiaries
rabbitmg-1
             | 2025-10-02 09:41:41.642195+00:00 [info] <0.254.0> Licensed under the MPL 2.0. Website: https://rabbitmg.com
rabbitmg-1
                              RabbitMQ 3.13.7
rabbitmq-1
                 ## ##
rabbitmq-1
                 ## ##
rabbitmq-1
                 ######### Copyright (c) 2007-2024 Broadcom Inc and/or its subsidiaries
                 ###### ##
rabbitmq-1
                 ######### Licensed under the MPL 2.0. Website: https://rabbitmg.com
rabbitmq-1
rabbitmq-1
rabbitmq-1
                 Erlang:
                               26.2.5.15 [jit]
rabbitmq-1
                 TLS Library: OpenSSL - OpenSSL 3.1.8 11 Feb 2025
rabbitmq-1
                 Release series support status: see https://www.rabbitmq.com/release-information
rabbitmq-1
rabbitmg-1
                 Doc guides: https://www.rabbitmg.com/docs
                               https://www.rabbitmq.com/docs/contact
rabbitmq-1
                 Support:
                 Tutorials:
rabbitmq-1
                               https://www.rabbitmq.com/tutorials
rabbitmq-1
                               https://www.rabbitmq.com/docs/monitoring
rabbitmq-1
                 Upgrading:
                               https://www.rabbitmq.com/docs/upgrade
rabbitmq-1
```

#### 2. En producer/: npm start (o npm run dev).

#### 3. En consumer/: npm start (o npm run dev).

#### 4. Registrar un usuario (ejemplo curl):

```
Offiniz Oscide ourl X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:01.103 2"}

Offiniz Oscide ourl X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:02.062 2"}

Offiniz Oscide ourl X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:02.062 2")}

Offiniz Oscide ourl X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:02.062 2")}

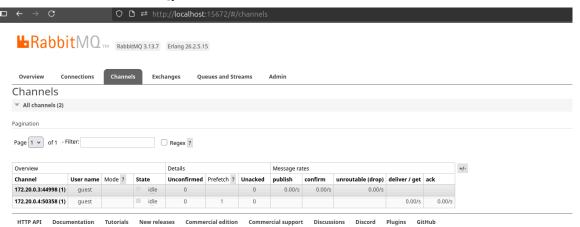
Offiniz Oscide ourl X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:02.662 2")}

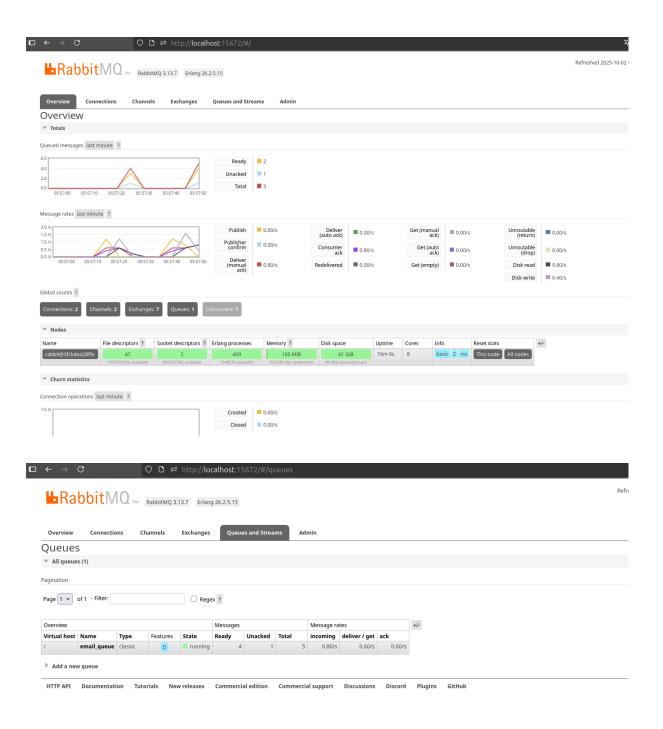
Offiniz Oscide ourl X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:03.565 0url X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:03.505 0url X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:03.505 0url X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"2025-10-02T09:45:03.505 0url X POST http://localhost:3000/register -H "Content-Type: application/json" -d '{"name":"Carlitos2","email":"juan.carlitos@example.com","cell":"781133000","createdAt":"20
```

```
₽ main ? • v24.7.0 • 05:52
 docker compose logs -f producer
producer-1 | Esperando 5000ms antes del siguiente intento...
producer-1 | Intento 2/10 de conexión a RabbitMQ...
producer-1 | Conectado a RabbitMQ exitosamente
producer-1 | Cola asegurada: email_queue
producer-1 | Producer API en http://localhost:3000
producer-1 | Health check: http://localhost:3000/health
producer-1 | Mensaje enviado a la cola: {
producer-1 | type: 'NEW_USER',
producer-1 | user: {
producer-1 | id: 1759398299430,
producer-1 | name: 'Carlitos2',
               email: 'juan.carlitos@example.com',
producer-1 |
producer-1 |
               cell: '781133000',
                createdAt: '2025-10-02T09:44:59.430Z'
producer-1
producer-1 | }
producer-1 | }
producer-1 | Mensaje enviado a la cola: {
producer-1 | type: 'NEW_USER',
producer-1 | user: {
producer-1
               id: 1759398301103,
producer-1 |
               name: 'Carlitos2',
producer-1 |
               email: 'juan.carlitos@example.com',
producer-1 | cell: '781133000',
                createdAt: '2025-10-02T09:45:01.103Z'
producer-1 |
producer-1 | }
producer-1 | }
producer-1 | Mensaje enviado a la cola: {
producer-1 | type: 'NEW_USER',
producer-1 |
             user: {
producer-1 |
               id: 1759398302062,
               name: 'Carlitos2',
producer-1
producer-1
               email: 'juan.carlitos@example.com',
               cell: '781133000',
producer-1
                createdAt: '2025-10-02T09:45:02.062Z'
producer-1
producer-1 | }
producer-1 | }
```

```
₽ main ? • v24.7.0 • 05:33
 → docker compose logs -f consumer
consumer-1 | Esperando mensajes en la cola: email_queue
consumer-1 | Mensaje recibido: {
consumer-1 | type: 'NEW_USER',
consumer-1
                user: {
consumer-1 |
                  id: 1759398299430,
consumer-1 |
                  name: 'Carlitos2',
consumer-1 |
                   email: 'juan.carlitos@example.com',
consumer-1 | consumer-1 |
                   cell: '781133000',
                   createdAt: '2025-10-02T09:44:59.430Z'
consumer-1 | }
consumer-1 | }
consumer-1 | Simulando envío de correo a: juan.carlitos@example.com (nombre: Carlitos2)
consumer-1 | Correo "enviado" a juan.carlitos@example.com (simulado)
consumer-1 | Mensaje recibido: {
consumer-1 | type: 'NEW_USER',
consumer-1
                 user: {
                  id: 1759398301103,
consumer-1 |
consumer-1
                  name: 'Carlitos2',
consumer-1 |
                email: 'juan.carlitos@example.com',
consumer-1 | cell: '781133000',
consumer-1 | createdAt: '2025-1
                   createdAt: '2025-10-02T09:45:01.103Z'
consumer-1 | consumer-1 | }
consumer-1 | Simulando envío de correo a: juan.carlitos@example.com (nombre: Carlitos2)
consumer-1 | Correo "enviado" a juan.carlitos@example.com (simulado)
consumer-1 | Mensaje recibido: {
consumer-1 | type: 'NEW_USER',
consumer-1 | user: {
consumer-1 | id: 175939830206
consumer-1 | name: 'Carlitos2
                  id: 1759398302062,
                   name: 'Carlitos2',
consumer-1
                  email: 'juan.carlitos@example.com',
consumer-1
                  cell: '781133000',
consumer-1 |
                    createdAt: '2025-10-02T09:45:02.062Z'
consumer-1 | }
consumer-1 | }
consumer-1 | Simulando envío de correo a: juan.carlitos@example.com (nombre: Carlitos2)
```

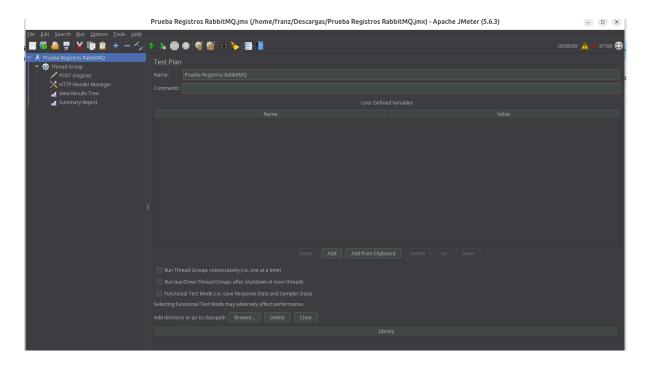
#### **INTERFAZ DE RABBITMQ**



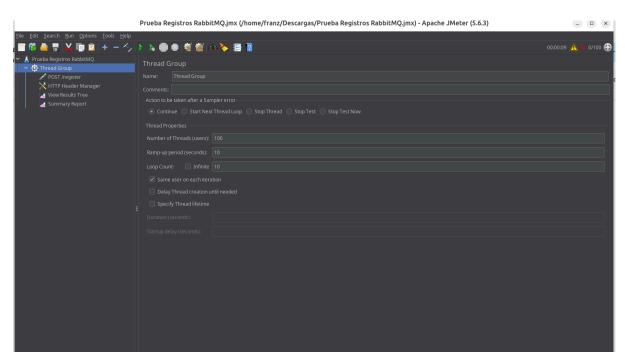


#### PRUEBAS CON 1000 REGISTROS CON JMETER

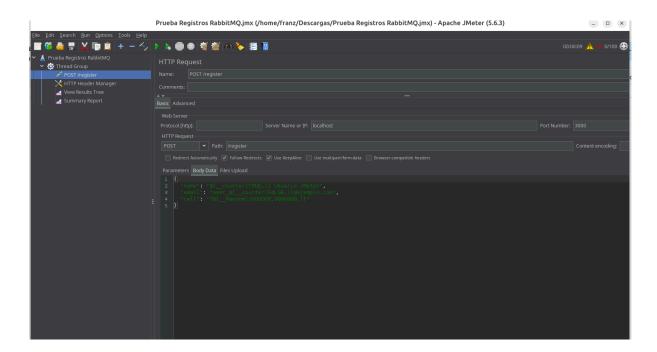
#### 1: Crear un Nuevo Test Plan en JMeter



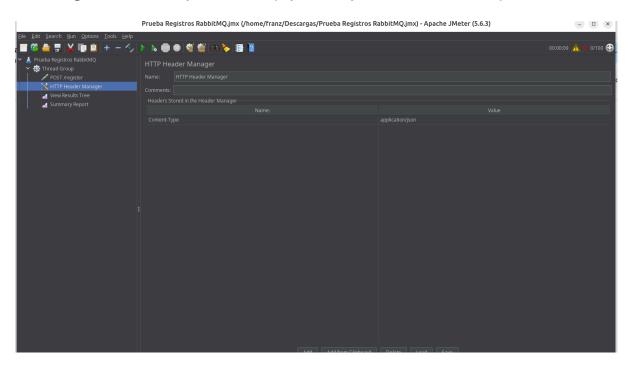
# 2: Configurar el Thread Group (Simulación de Usuarios)



## 3: Agregar un HTTP Request Sampler (La Solicitud POST)



## 4: Configurar Headers para JSON (Opcional pero Recomendado)



## 5: Agregar Listeners para Ver Resultados

Los listeners muestran métricas en tiempo real y al final.

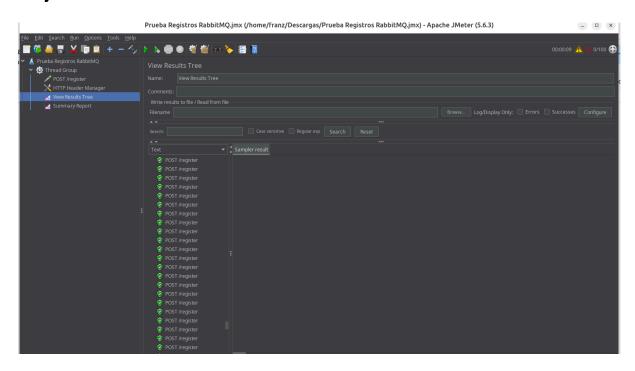
- 1. Haz clic derecho en **Thread Group > Add > Listener > View Results Tree** (para ver detalles de cada solicitud, como respuesta JSON del producer).
  - Útil para debug: Verás el body de respuesta (e.g., { "ok": true, "user": {...} }).

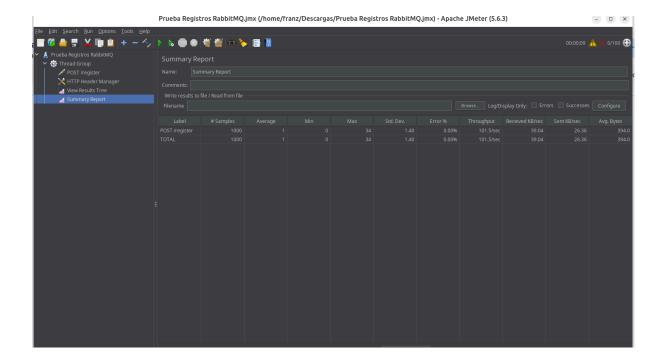
- 2. Haz clic derecho en **Thread Group > Add > Listener > Summary Report** (resumen simple: # Samples, Average time, Error %, Throughput).
- 3. Opcional: **Aggregate Report** para métricas detalladas (90% Line, Min/Max time, etc.).
  - Haz clic derecho en Thread Group > Add > Listener > Aggregate Report.

## 6: Configuraciones Adicionales del Test Plan

- 1. En Test Plan (nivel raíz):
  - Marca "Run Thread Groups consecutively" si quieres pruebas secuenciales, pero déjalo off para concurrente.
  - o User Defined Variables: No necesario aquí.
- 2. Guarda el plan: **File > Save** como prueba-1000-registros-rabbitmq.jmx.

## 7: Ejecutar la Prueba





# Muestras de las pruebas en RabbitMQ

