# Async by Message or Events

## in Microservices Architecture

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# What is a Message?

# Message Example

Message 2

The server reported 0 messages remaining.

| | |
|---|---|
| Exchange | (AMQP default) |
| Routing Key | ms.email |
| Redelivered | ○ |
| Properties | delivery_mode: 1 |
| | headers: |

Payload
220 bytes
Encoding: string

```
{
    "ownerRef": "Michelli",

    "emailFrom": "nina@gmail.com",

    "emailTo": "michellidibrito@gmail.com",

    "subject": "Segundo envio",

    "text": "Para fazer o download gratuitamente basta acessar o link."

}
```

Examples of Message Brokers

#DECODERPROJECT

# Producer and Consumer / Publish and Subscribe



PRODUCER — Message → Broker [ Message Channel ] ⇢ CONSUMER

PUBLISHER — Event → Broker [ Event Channel ] ⇢ SUBSCRIBE / SUBSCRIBE

*#DECODERPROJECT*
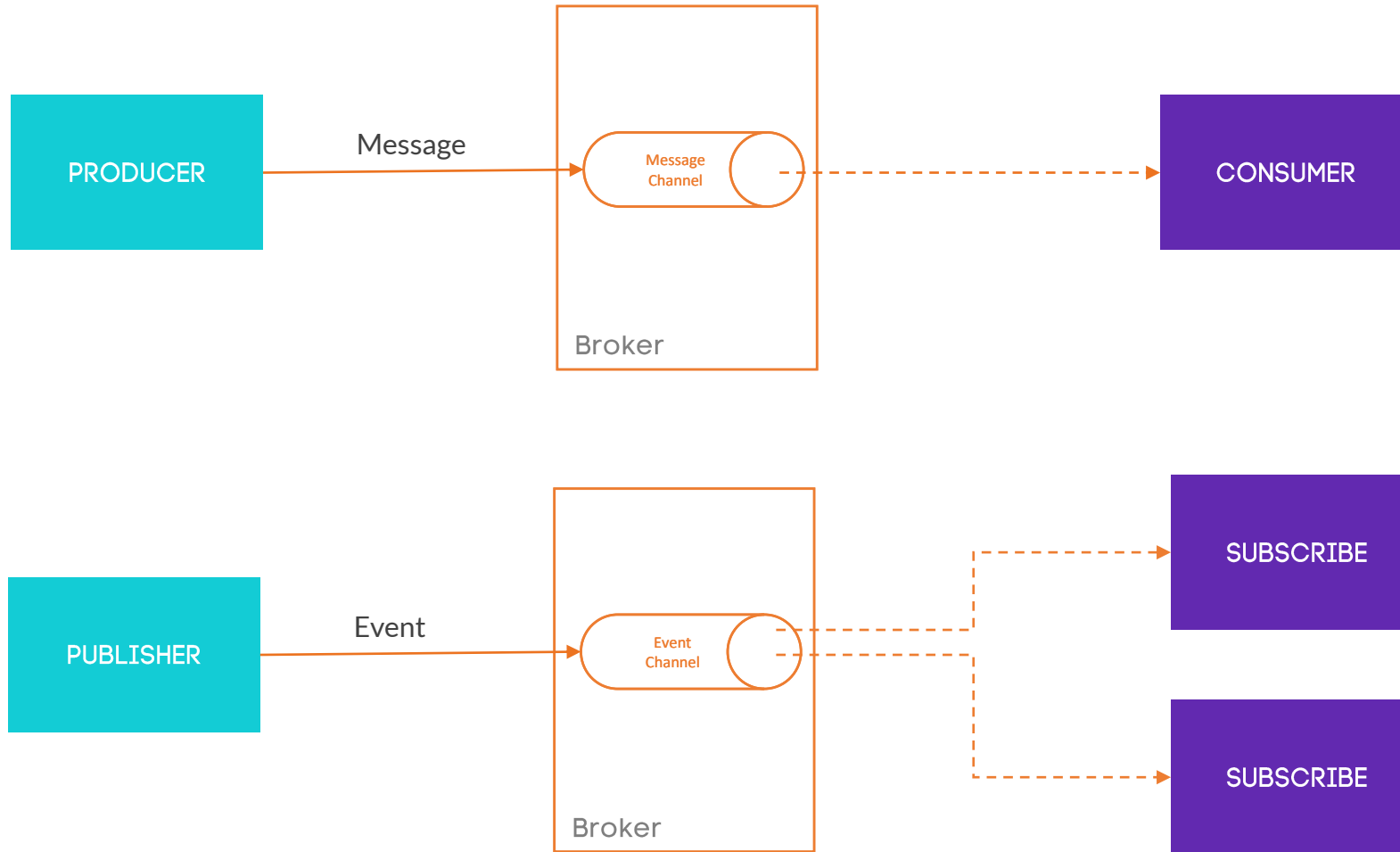
# RabbitMQ Exchanges Examples

| Name | Type | Features | Message rate in | Message rate out | |
|------|------|----------|-----------------|------------------|---|
| **(AMQP default)** | direct | D | 0.00/s | 0.00/s | |
| **amq.direct** | direct | D | | | |
| **amq.fanout** | fanout | D | | | |
| **amq.headers** | headers | D | | | |
| **amq.match** | headers | D | | | |
| **amq.rabbitmq.trace** | topic | D  I | | | |
| **amq.topic** | topic | D | | | |

What is the difference between Command and Event?

# Command



Do Something !

# Event



Something Happened ..

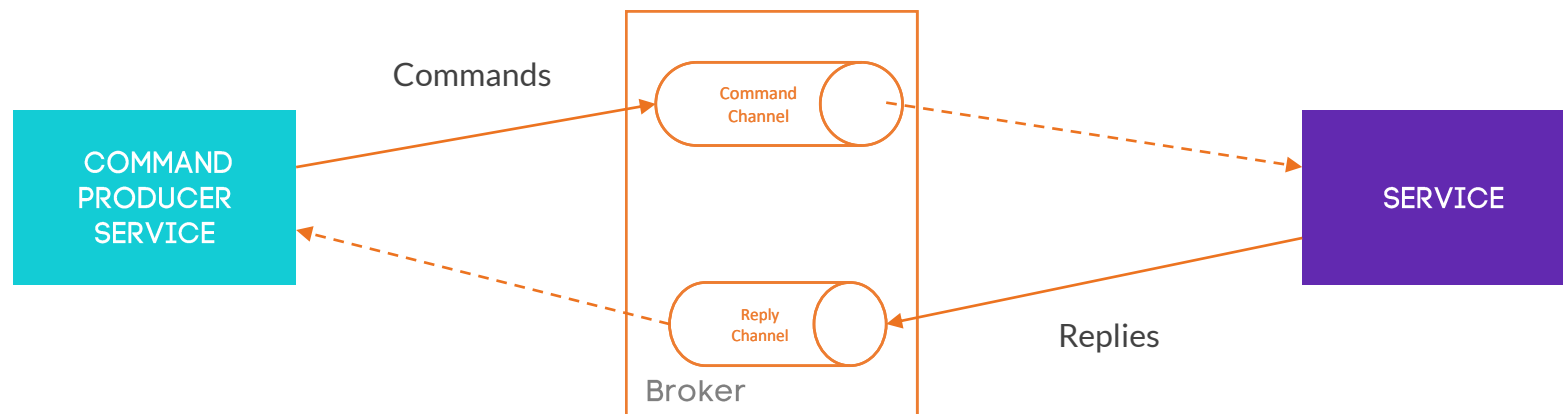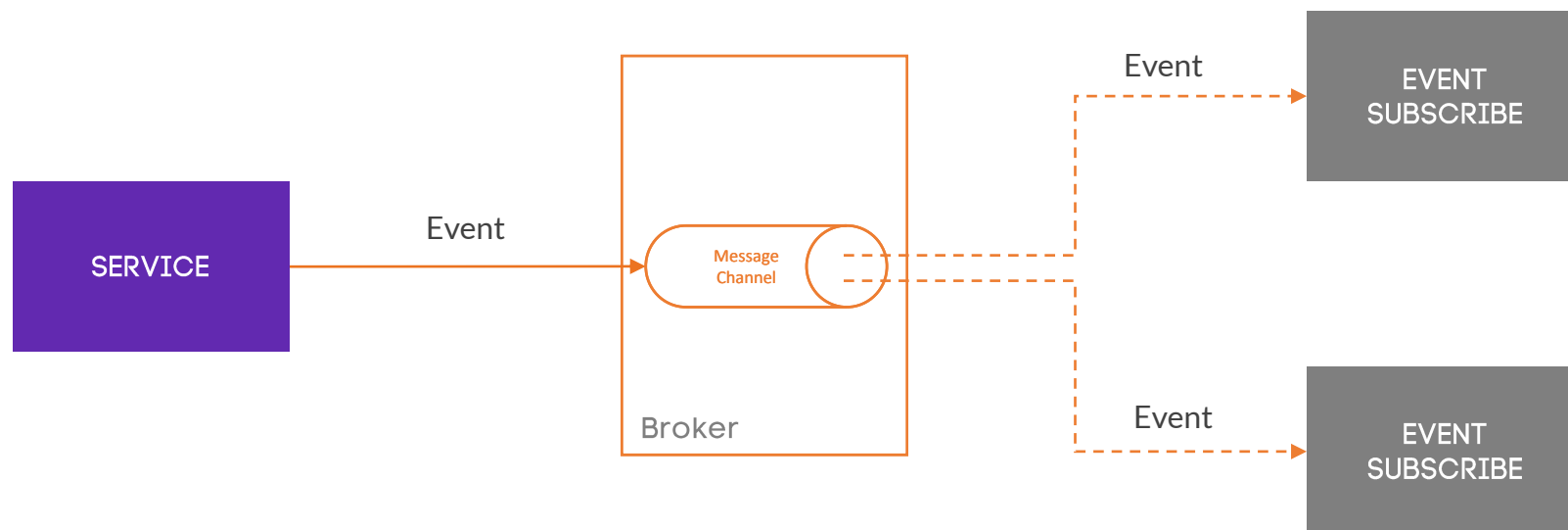Diego Corrêa Couto - diegocorreacouto@gmail.com - CPF: 120.808.777-04

# Command Example

# Event Example

# Command and Event Example