

Springboot Microservices

RabbitMQ

Dependência necessária

```
<dependency>
```

```
    <groupId>org.springframework.amqp</groupId>
```

```
    <artifactId>spring-rabbit</artifactId>
```

```
</dependency>
```

Configuração no application.properties do projeto JavaSpringBoot

spring.application.name=PREENCHER DO PROJETO UTILIZADO

spring.rabbitmq.host=localhost # RabbitMQ host.

spring.rabbitmq.username= admin # Usuario Login do broker.

spring.rabbitmq.password=admin123 # senha para autenticação do broker.

spring.rabbitmq.port=5672 # porta do RabbitMQ.

configuration/MQConfig.java (parte 1)

```
import org.springframework.amqp.core.AmqpAdmin;  
import org.springframework.amqp.core.Binding;  
import org.springframework.amqp.core.DirectExchange;  
import org.springframework.amqp.core.Queue;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Component;  
import jakarta.annotation.PostConstruct;
```

@Component

```
public class MQConfig {  
    @Autowired  
    private AmqpAdmin amqpAdmin;  
    private Queue queue;  
    private Queue queue (String queueName){  
        return new Queue(queueName, true, false, false);  
    }  
    private DirectExchange createDirectExchange(){  
        return new DirectExchange("ecommercermq");  
    }  
}
```

configuration/MQConfig.java (parte 2)

```
@PostConstruct
private void Create (){
    this.queue = new Queue("fila-ecommerce");

    // Create the direct exchange
    DirectExchange directExchange = createDirectExchange();

    // Create the binding
    Binding binding = new Binding(queue.getName(), Binding.DestinationType.QUEUE,
    directExchange.getName(), queue.getName(), null);
    amqpAdmin.declareQueue(queue);
    amqpAdmin.declareExchange(directExchange);
    amqpAdmin.declareBinding(binding);
}
}
```

Chamada envio de parâmetro na fila do RMQ

* Class DTO precisa ter implements Serializable

```
class produtoService{  
...  
    @Autowired  
    private RabbitTemplate rabbitTemplate;  
  
    private create(DTO dto){  
        consulta = repository.save(dto)  
        rabbitTemplate.convertAndSend("fila-ecommerce", consulta);  
    }  
}
```

Consumo dos elementos da fila

```
class produtoService{  
    ...  
    @Autowired  
    private RabbitTemplate rabbitTemplate;  
  
    @RabbitListener(queues = "fila-ecommerce")  
    private void subscribe(Municipio municipio){  
        System.out.println(municipio.getNome());  
    }  
}
```