Reactive messaging

Eclipse Microfile Reactive Messaging Spec 2.0

Quarkus usa SmallRye Reactive Messaging que soporta Kafka, AMQP o MQTT.

Messages (org.eclipse.microprofile.reactive.messaging.Message)

Channels (Incoming channels, outgoing channels)

Connectors (Connector Kafka, RabbitMQ, Pulsar, etc)

Consumo De Mensajes

- Payload

Producir Mensajes

Coding imperativo Emitter

Kafka quarkus-smallrye-reactive-messaging-kafka

Serializers: io.quarkus.kafka.client.serialization.ObjectMapperSerializer

Deserializers: io.quarkus.kafka.client.serialization.ObjectMapperDeserializer

```
package com.redhat.training;
import io.quarkus.kafka.client.serialization.ObjectMapperDeserializer;

public class UserWasCreatedDeserializer extends
  ObjectMapperDeserializer<UserWasCreated> {
     public UserWasCreatedDeserializer() {
        super(UserWasCreated.class);
     }
}
```

Kafka Configuration

```
kafka.bootstrap.servers = localhost:9092
# Incoming Channel
mp.messaging.incoming.[channel-name].connector = smallrye-kafka
mp.messaging.incoming.[channel-name].topic = a-topic
mp.messaging.incoming.[channel-name].auto.offset.reset = earliest
mp.messaging.incoming.[channel-name].value.deserializer =
 org.apache.kafka.common.serialization.DoubleDeserializer 5
# Outgoing Channel
mp.messaging.outgoing.[channel-name].connector = smallrye-kafka
mp.messaging.outgoing.[channel-name].topic = another-topic •
mp.messaging.outgoing.[channel-name].value.serializer =
io.quarkus.kafka.client.serialization.ObjectMapperSerializer
```

Recursos

https://smallrye.io/smallrye-reactive-messaging/3.21.0/

https://quarkus.io/version/2.13/guides/kafka-reactive-getting-started

https://quarkus.io/version/2.13/guides/amqp

https://kafka.apache.org