# Kafka/RabbitMQ

Day 4

# Day 4 - Overview

- Kafka assignment review
- What Is RabbitMQ
- Create a RabbitMQ server
- Architecture Introduction
- System Requirements
- Components Overview
- Integration with Flask/Spring Boot

# Kafka Assignment Review

Point the producer to second-topic which has 2 partitions

Update the producer REST API to take partition number in request arguments
Produce the message to partition specified in the request

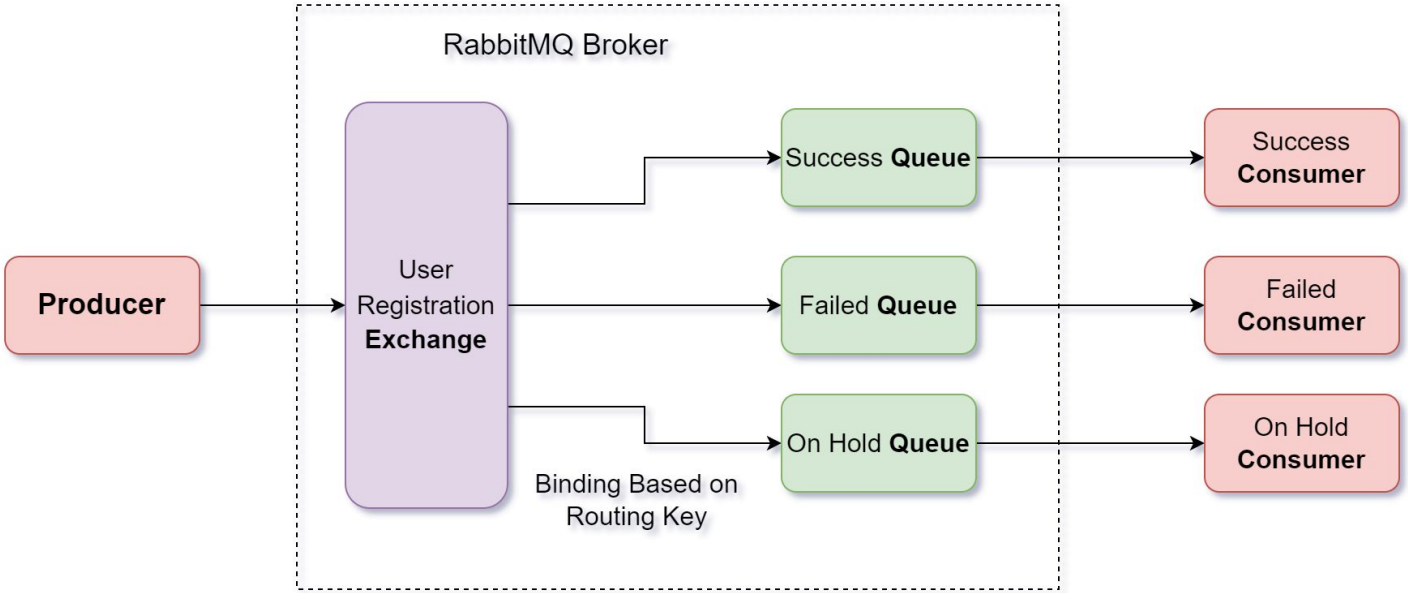
Confirm in the listener that messages are consumer from appropriate partition

# RabbitMQ Installation and Setup

Follow the steps in below document to install and setup RabbitMQ in VM

https://github.com/saurav-samantray/flask-microservices-training/blob/main/slides/Install%20and%20setup%20RabbitMQ%20on%20Windows.pdf

# RabbitMQ Architecture



# Message Sender

```
channel.basic_publish(
    exchange='user_registration_exchange',
    routing_key='success', body='User Anita Successfully Registered',
    properties=pika.BasicProperties(headers={'email': 'anita@gmail.com'})
    )
```

# Message Consumer

```
#Consume the message from exchange
    channel.basic_consume("registration_success_queue",
                          callback,
                          auto_ack=True)

    try:
        channel.start_consuming()
    except KeyboardInterrupt:
        channel.stop_consuming()
```

# Q and A