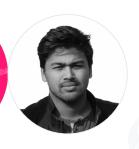
RabbitMQ for Queue based Messaging



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RabbitMQ Architecture

```
connection = pika.BlockingConnection(pika.ConnectionParameters('localhost')
channel = connection.channel()

channel.queue_declare('user_email')
channel.basic_publish(exchange='', routing_key='user_email', body=json.dumps(message))
```

Pika RMQ code publish

Sample code to declare and publish a message to RMQ using the routing key

```
connection = pika.BlockingConnection(pika.ConnectionParameters('localhost')
channel = connection.channel()

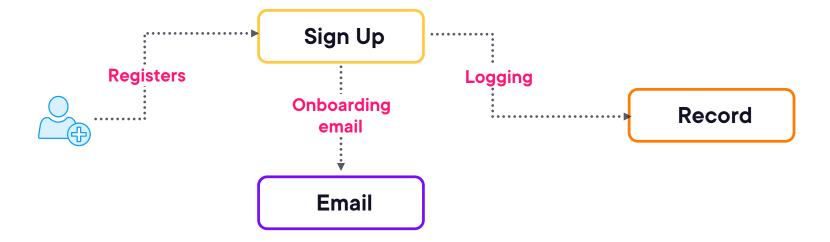
channel.queue_declare('user_email')
channel.basic_consume(queue='user_email', auto_ack=True, on_message_callback=callback)
channel.start_consuming()
```

Pika RMQ code consume

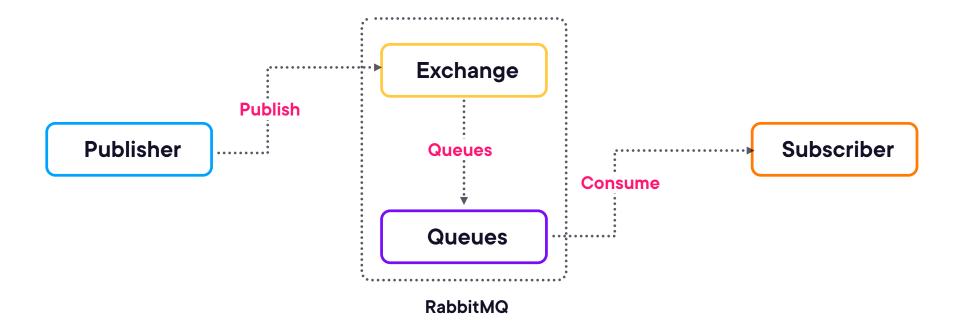
Sample code to declare and consume a message to RMQ using the routing key



RabbitMQ Use Case



RabbitMQ Architecture



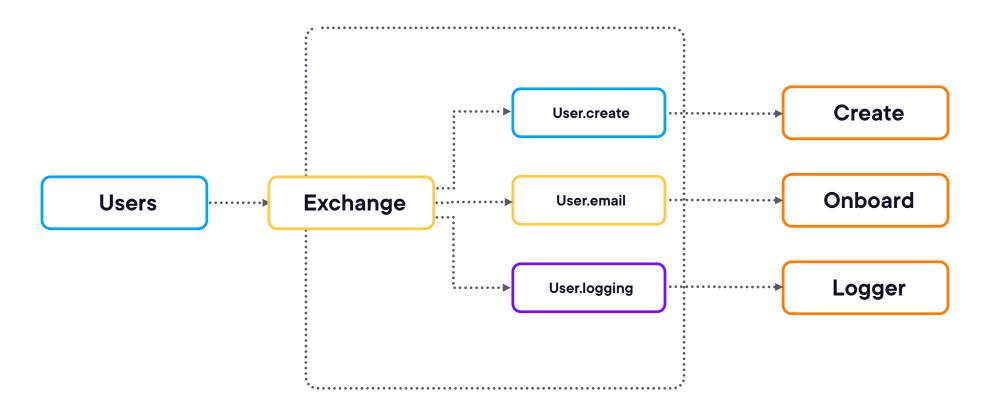
Fanout Exchange Use Cases

Broadcasting Events

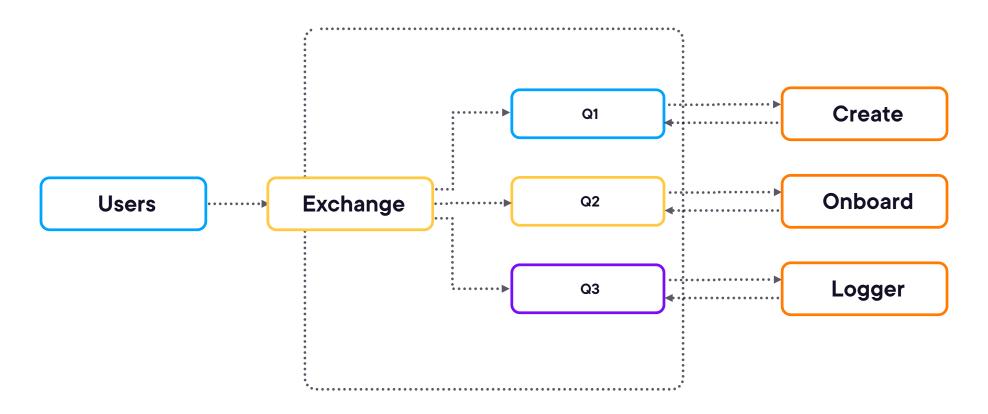
Live Data Streaming

Logging Systems

Direct Exchange (Work Queues)



Fanout Exchange (Publish/Subscribe)



Fanout Exchange

Demo: Integrate RabbitMQ

Integrate RabbitMQ in an application



Demo: Messaging Queue Models

Direct and Fanout model



Optimisations