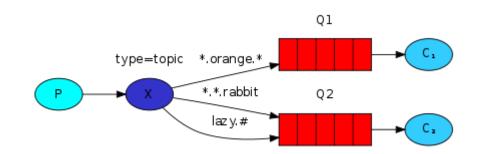
2019/8/21 6.Python RabbitMQ主题交换机

## Python RabbitMQ主题交换机

在前面的代码中我们使用了直连交换机替代了扇型交换机,将只能盲目的广播消息改进为选择性的接收日志,尽管直连交换机能够改善我们的系统,但是它自身也有局限性,那就是没办法基于多个标准执行路由操作。主题交换机: 发送到主题交换机(topic exchange)的消息携带的一个路由键必须是一个由.分隔开的词语列表,这些单词随便是什么都可以,但是最好是跟携带它们的消息有关系的词汇。以下是几个推荐的例子:"stock.usd.nyse","nyse.vmw","quick.orange.rabbit"。词语的个数可以随意,但是不要超过255字节。一个携带着特定路由键的消息会被主题交换机投递给与之相匹配的队列。\*(星号)用来表示一个单词。#(井号)用来表示任意数量(零个或多个)单词。如图所示:



示例代码(发送者):

示例代码(接收者1):

```
In [ ]: import pika, sys
import time
cert = pika.PlainCredentials('rabbit', 'rabbit')
para = pika.ConnectionParameters('172.16.70.251', '5672', '/', cert)
connect = pika.BlockingConnection(para)
channel = connect.channel()
channel.exchange_declare(exchange="topic_logs", exchange_type="topic")
result = channel.queue_declare(exclusive=True, queue='')
queue_name = result.method.queue
print(queue_name)
levels = ["*.*.rabbit", "lazy.#"]
for level in levels:
   print(level)
   channel.queue_bind(exchange='topic_logs',
                      queue=queue_name,
                      routing_key=level)
def callback(ch, method, prop, body):
   print('this is callback level is %s args is %s'%(method.routing_key, body))
channel.basic_consume(queue_name, callback, auto_ack=True)
channel.start_consuming()
```

示例代码(接受者2):

```
In [ ]: import pika, sys
import time
cert = pika.PlainCredentials('rabbit', 'rabbit')
para = pika.ConnectionParameters('172.16.70.251', '5672', '/', cert)
connect = pika.BlockingConnection(para)
channel = connect.channel()
channel.exchange_declare(exchange="topic_logs", exchange_type="topic")
result = channel.queue_declare(exclusive=True, queue='')
queue_name = result.method.queue
levels = ["*.orange.*"]
for level in levels:
    print(level)
    channel.queue_bind(exchange='topic_logs',
                      queue=queue_name,
                      routing_key=level)
def callback(ch, method, prop, body):
   print('this is callback level %s args is %s'%(method.routing_key, body))
channel.basic_consume(queue_name, callback, auto_ack=True)
channel.start_consuming()
```