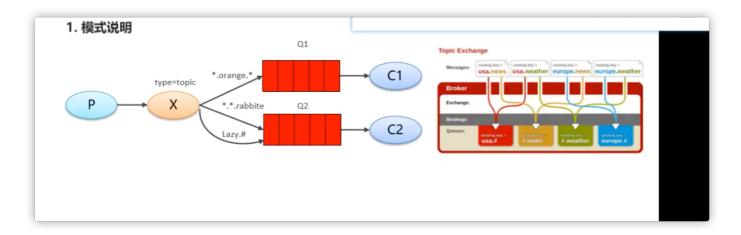
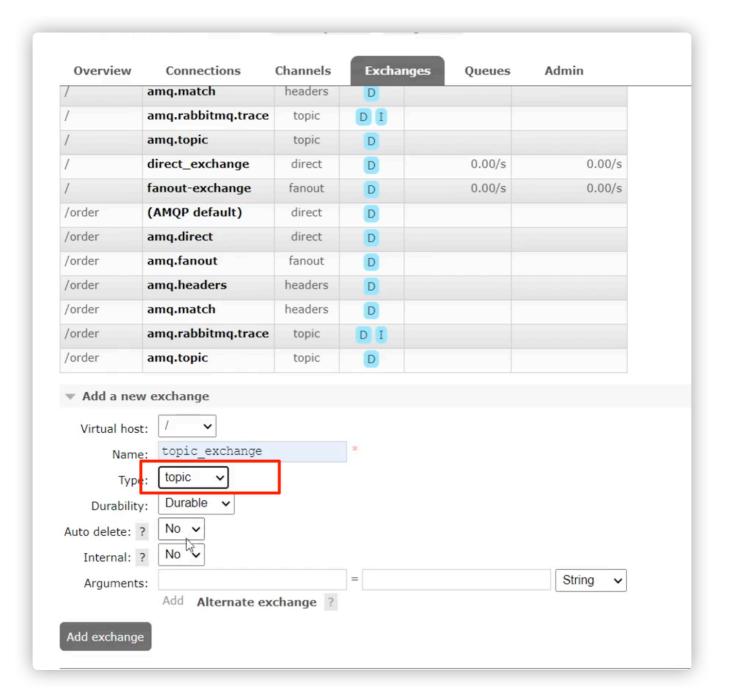
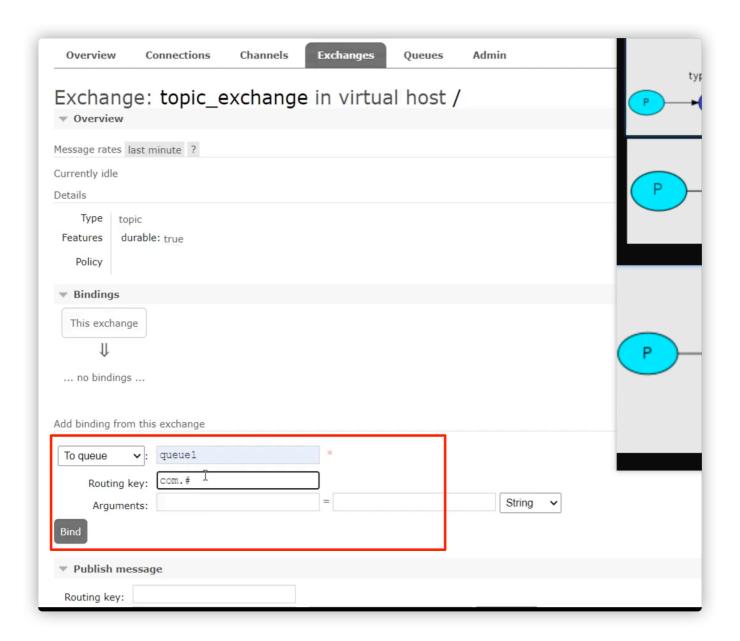
topic模式

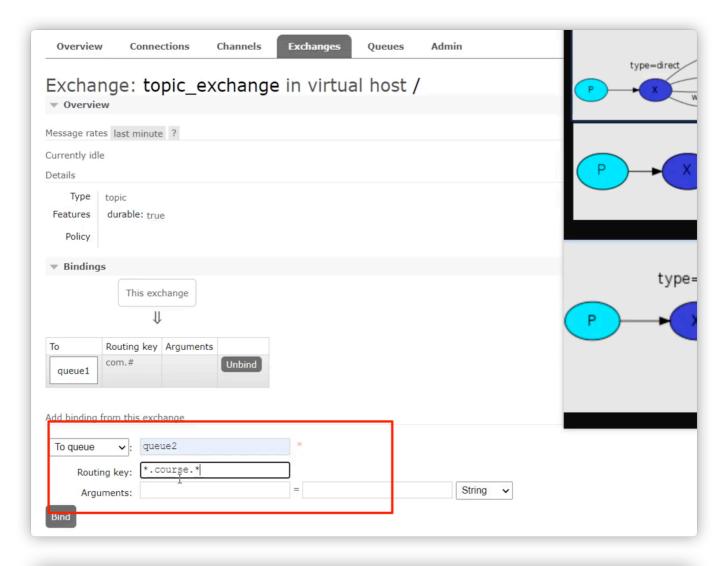


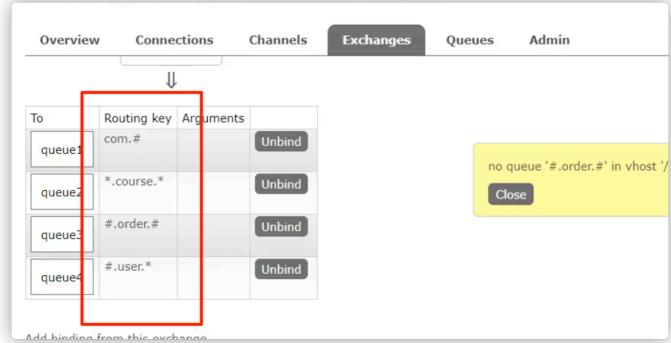
- * 代表一个单词
- # 代表0到多个单词

界面模拟:

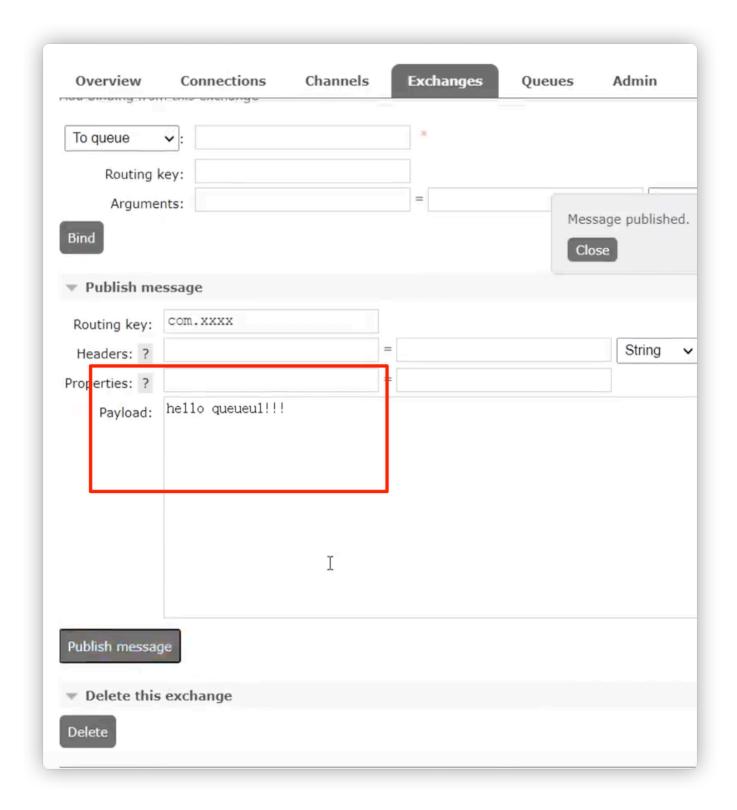








发送查看情况



代码

Producer_Topics

```
package com.itheima.producer;
import com.rabbitmq.client.BuiltinExchangeType;
```

```
import com.rabbitmq.client.Channel;
import com.rabbitmq.client.Connection;
import com.rabbitmq.client.ConnectionFactory;
import java.io.IOException;
import java.util.concurrent.TimeoutException;
/**
 * 发送消息
*/
public class Producer Topics {
   public static void main(String[] args) throws IOException, TimeoutException {
       //1.创建连接工厂
       ConnectionFactory factory = new ConnectionFactory();
       //2. 设置参数
       factory.setHost("172.16.98.133");//ip 默认值 localhost
       factory.setPort(5672); //端口 默认值 5672
       factory.setVirtualHost("/itcast");//虚拟机 默认值/
       factory.setUsername("heima");//用户名 默认 guest
       factory.setPassword("heima");//密码 默认值 guest
       //3. 创建连接 Connection
       Connection connection = factory.newConnection();
       //4. 创建Channel
       Channel channel = connection.createChannel();
      exchangeDeclare(String exchange, BuiltinExchangeType type, boolean durable, boolean
autoDelete, boolean internal, Map<String, Object> arguments)
      参数:
       1. exchange:交换机名称
       2. type:交换机类型
           DIRECT("direct"),: 定向
           FANOUT("fanout"),:扇形(广播),发送消息到每一个与之绑定队列。
           TOPIC("topic"), 通配符的方式
           HEADERS("headers");参数匹配
       3. durable:是否持久化
       4. autoDelete:自动删除
       5. internal: 内部使用。 一般false
       6. arguments: 参数
      String exchangeName = "test_topic";
       //5. 创建交换机
       channel.exchangeDeclare(exchangeName, BuiltinExchangeType.TOPIC, true, false, false, null);
       //6. 创建队列
       String queue1Name = "test_topic_queue1";
       String queue2Name = "test topic queue2";
       channel.queueDeclare(queue1Name,true,false,false,null);
       channel.queueDeclare(queue2Name,true,false,false,null);
       //7. 绑定队列和交换机
```

```
queueBind(String queue, String exchange, String routingKey)
       参数:
           1. queue: 队列名称
           2. exchange: 交换机名称
           3. routingKey: 路由键, 绑定规则
              如果交换机的类型为fanout, routingKey设置为""
        */
       // routing key 系统的名称.日志的级别。
       //=需求: 所有error级别的日志存入数据库,所有order系统的日志存入数据库
       channel.queueBind(queue1Name,exchangeName,"#.error");
       channel.queueBind(queuelName,exchangeName,"order.*");
       channel.queueBind(queue2Name,exchangeName,"*.*");
       String body = "日志信息: 张三调用了findAll方法...日志级别: info...";
       //8. 发送消息
       channel.basicPublish(exchangeName, "goods.error", null, body.getBytes());
       //9. 释放资源
       channel.close();
       connection.close();
   }
}
```

Consumer_Topic1

```
package com.itheima.consumer;
import com.rabbitmq.client.*;
import java.io.IOException;
import java.util.concurrent.TimeoutException;
public class Consumer Topic1 {
   public static void main(String[] args) throws IOException, TimeoutException {
       //1.创建连接工厂
       ConnectionFactory factory = new ConnectionFactory();
       //2. 设置参数
       factory.setHost("172.16.98.133");//ip 默认值 localhost
       factory.setPort(5672); //端口 默认值 5672
       factory.setVirtualHost("/itcast");//虚拟机 默认值/
       factory.setUsername("heima");//用户名 默认 guest
       factory.setPassword("heima");//密码 默认值 guest
       //3. 创建连接 Connection
       Connection connection = factory.newConnection();
       //4. 创建Channel
       Channel channel = connection.createChannel();
```

```
String queue1Name = "test_topic_queue1";
       String queue2Name = "test_topic_queue2";
       basicConsume(String queue, boolean autoAck, Consumer callback)
       参数:
           1. queue: 队列名称
           2. autoAck: 是否自动确认
           3. callback: 回调对象
        */
       // 接收消息
       Consumer consumer = new DefaultConsumer(channel){
               回调方法, 当收到消息后, 会自动执行该方法
               1. consumerTag: 标识
               2. envelope: 获取一些信息, 交换机, 路由key...
               3. properties:配置信息
               4. body:数据
            */
           @Override
           public void handleDelivery(String consumerTag, Envelope envelope,
AMQP.BasicProperties properties, byte[] body) throws IOException {
             /* System.out.println("consumerTag: "+consumerTag);
               System.out.println("Exchange: "+envelope.getExchange());
               System.out.println("RoutingKey: "+envelope.getRoutingKey());
               System.out.println("properties: "+properties);*/
               System.out.println("body: "+new String(body));
               System.out.println("将日志信息存入数据库.....");
           }
       };
       channel.basicConsume(queue1Name,true,consumer);
       //关闭资源? 不要
   }
}
```

Consumer_Topic2

```
package com.itheima.consumer;
import com.rabbitmq.client.*;
```

```
import java.io.IOException;
import java.util.concurrent.TimeoutException;
public class Consumer Topic2 {
   public static void main(String[] args) throws IOException, TimeoutException {
       //1.创建连接工厂
       ConnectionFactory factory = new ConnectionFactory();
       //2. 设置参数
       factory.setHost("172.16.98.133");//ip 默认值 localhost
       factory.setPort(5672); //端口 默认值 5672
       factory.setVirtualHost("/itcast");//虚拟机 默认值/
       factory.setUsername("heima");//用户名 默认 guest
       factory.setPassword("heima");//密码 默认值 guest
       //3. 创建连接 Connection
       Connection connection = factory.newConnection();
       //4. 创建Channel
       Channel channel = connection.createChannel();
       String queue1Name = "test_topic_queue1";
       String queue2Name = "test_topic_queue2";
       /*
       basicConsume(String queue, boolean autoAck, Consumer callback)
       参数:
           1. queue: 队列名称
           2. autoAck: 是否自动确认
           3. callback: 回调对象
        */
       // 接收消息
       Consumer consumer = new DefaultConsumer(channel){
               回调方法, 当收到消息后, 会自动执行该方法
               1. consumerTag: 标识
               2. envelope: 获取一些信息, 交换机, 路由key...
               3. properties:配置信息
               4. body:数据
            */
           @Override
           public void handleDelivery(String consumerTag, Envelope envelope,
AMQP.BasicProperties properties, byte[] body) throws IOException {
             /* System.out.println("consumerTag: "+consumerTag);
               System.out.println("Exchange: "+envelope.getExchange());
               System.out.println("RoutingKey: "+envelope.getRoutingKey());
               System.out.println("properties: "+properties);*/
               System.out.println("body: "+new String(body));
               System.out.println("将日志信息打印控制台.....");
```

```
}
};
channel.basicConsume(queue2Name,true,consumer);

//关闭资源? 不要
}
```

总结

Topic 主题模式可以实现 Pub/Sub 发布与订阅模式和 Routing 路由模式的功能,只是 Topic 在配置routing key 的时候可以使用通配符,显得更加灵活。