实践指导

1. 下载 Kafka，并上传至 ECS

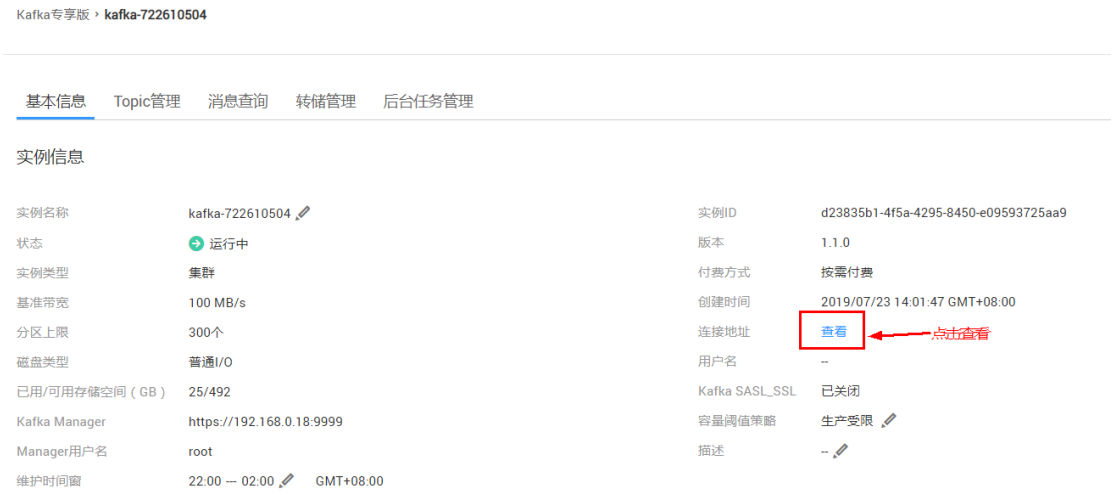
下载链接：https://archive.apache.org/dist/kafka/1.1.0/kafka_2.12-1.1.0.tgz

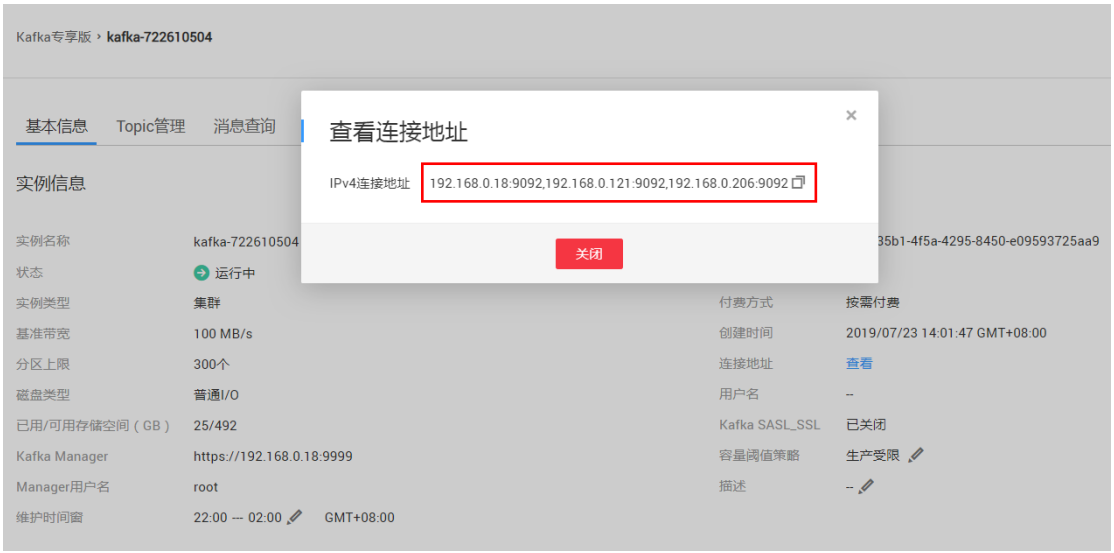
上传至ECS并解压：

```
[root@ecs-site-notdelete kafka_2.12-1.1.0]# pwd
/root/kafka_2.12-1.1.0
[root@ecs-site-notdelete kafka_2.12-1.1.0]# ll
total 52
drwxr-xr-x 3 root root  4096 Mar 24  2018 bin
drwxr-xr-x 2 root root  4096 Mar 24  2018 config
drwxr-xr-x 2 root root  4096 Jul 23 14:12 libs
-rw-r--r-- 1 root root 28824 Mar 24  2018 LICENSE
-rw-r--r-- 1 root root   336 Mar 24  2018 NOTICE
drwxr-xr-x 2 root root  4096 Mar 24  2018 site-docs
```

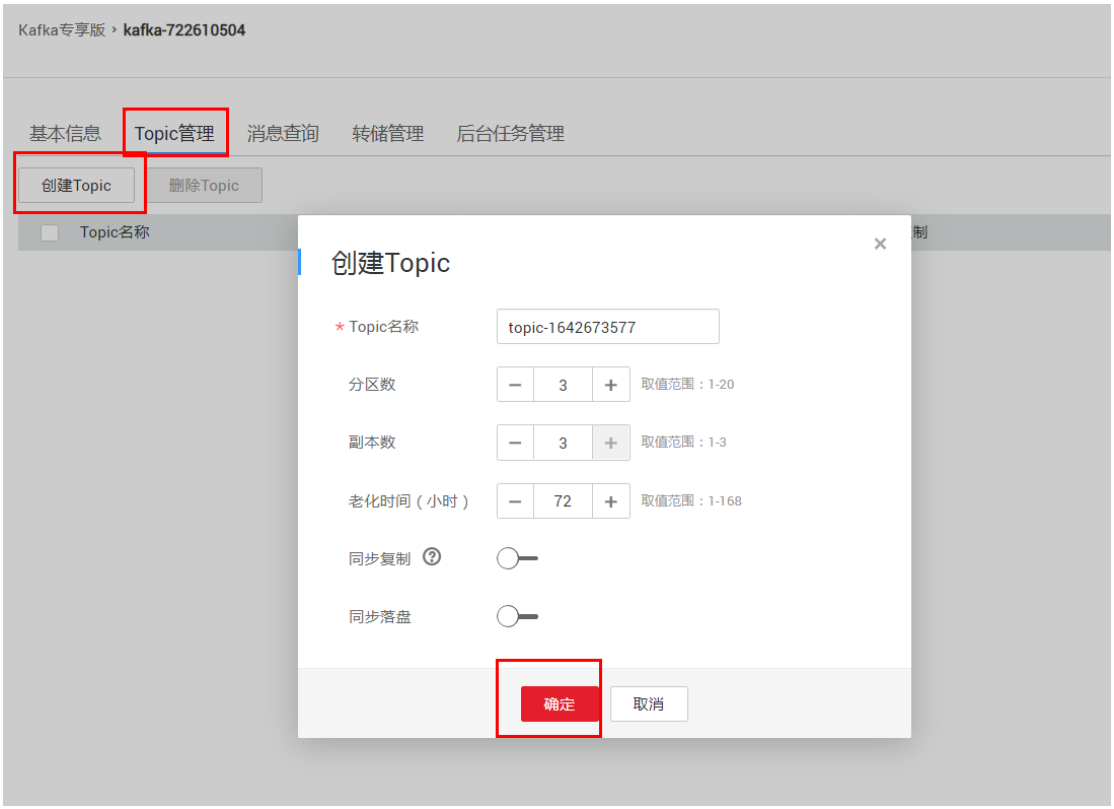
ECS要和Kafka实例在同一VPC

2. 在 Kafka 实例详情页获取 Kafka broker 地址：


Kafka专享版 › kafka-722610504
基本信息
Topic管理
消息查询
转储管理
后台任务管理
实例信息
实例名称
kafka-722610504
状态
运行中
实例类型
集群
基准带宽
100 MB/s
分区上限
300个
磁盘类型
普通I/O
已用/可用存储空间（GB）
25/492
Kafka Manager
https://192.168.0.18:9999
Manager用户名
root
维护时间窗
22:00 --- 02:00
GMT+08:00
实例ID
d23835b1-4f5a-4295-8450-e09593725aa9
版本
1.1.0
付费方式
按需付费
创建时间
2019/07/23 14:01:47 GMT+08:00
连接地址
查看
点击查看
用户名
--
Kafka SASL_SSL
已关闭
容量阈值策略
生产受限
描述
--


Kafka专享版 › kafka-722610504
基本信息
Topic管理
消息查询
实例信息
查看连接地址
IPv4连接地址
192.168.0.18:9092,192.168.0.121:9092,192.168.0.206:9092
关闭
实例名称
kafka-722610504
状态
运行中
实例类型
集群
基准带宽
100 MB/s
分区上限
300个
磁盘类型
普通I/O
已用/可用存储空间（GB）
25/492
Kafka Manager
https://192.168.0.18:9999
Manager用户名
root
维护时间窗
22:00 --- 02:00
GMT+08:00
付费方式
按需付费
创建时间
2019/07/23 14:01:47 GMT+08:00
连接地址
查看
用户名
--
Kafka SASL_SSL
已关闭
容量阈值策略
生产受限
描述
--

3. 创建 topic：



4. 将代码打包，上传至 Kafka libs 目录

```
[root@ecs-site-notdelete libs]# pwd
/root/kafka_2.12-1.1.0/libs
[root@ecs-site-notdelete libs]# ll
total 48972
-rw-r--r-- 1 root root    14768 Aug 14  2017 aopalliance-repackaged-2.5.0-b32.jar
-rw-r--r-- 1 root root    90347 Aug 14  2017 argparse4j-0.7.0.jar
-rw-r--r-- 1 root root   479881 Aug 14  2017 commons-lang3-3.5.jar
-rw-r--r-- 1 root root    89496 Mar 24  2018 connect-api-1.1.0.jar
-rw-r--r-- 1 root root    19542 Mar 24  2018 connect-file-1.1.0.jar
-rw-r--r-- 1 root root    44928 Mar 24  2018 connect-json-1.1.0.jar
-rw-r--r-- 1 root root   408225 Mar 24  2018 connect-runtime-1.1.0.jar
-rw-r--r-- 1 root root    88980 Mar 24  2018 connect-transforms-1.1.0.jar
-rw------- 1 root root     8144 Jul 23 14:39 dms.kafka.demo.jar
-rw-r--r-- 1 root root  2442625 Aug 14  2017 guava-20.0.jar
-rw-r--r-- 1 root root   185793 Aug 14  2017 hk2-api-2.5.0-b32.jar
-rw-r--r-- 1 root root   187274 Aug 14  2017 hk2-locator-2.5.0-b32.jar
-rw-r--r-- 1 root root   134908 Aug 14  2017 hk2-utils-2.5.0-b32.jar
```

执行命令：

```
java -cp .:./libs/* dms.kafka.demo.KafkaProducerDemo

192.168.0.18:9092,192.168.0.121:9092,192.168.0.206:9092 topic-1642673577
```

（需要保存此截图，并上传至打卡程序）

```
[root@ecs-site-notdelete kafka_2.12-1.1.0]# java -cp .:./libs/* dms.kafka.demo.KafkaProducerDemo 192.168.0.18:9092,192.168.0.121:909
2,192.168.0.206:9092 topic-1642673577
topic: topic-1642673577, partition: 2, offset: 13
topic: topic-1642673577, partition: 0, offset: 12
topic: topic-1642673577, partition: 2, offset: 14
topic: topic-1642673577, partition: 2, offset: 15
topic: topic-1642673577, partition: 1, offset: 12
topic: topic-1642673577, partition: 0, offset: 13
topic: topic-1642673577, partition: 1, offset: 13
topic: topic-1642673577, partition: 0, offset: 14
topic: topic-1642673577, partition: 0, offset: 15
topic: topic-1642673577, partition: 2, offset: 16
topic: topic-1642673577, partition: 1, offset: 14
topic: topic-1642673577, partition: 0, offset: 16
topic: topic-1642673577, partition: 1, offset: 15
topic: topic-1642673577, partition: 1, offset: 16
topic: topic-1642673577, partition: 1, offset: 17
topic: topic-1642673577, partition: 0, offset: 17
topic: topic-1642673577, partition: 2, offset: 17
topic: topic-1642673577, partition: 0, offset: 18
topic: topic-1642673577, partition: 1, offset: 18
topic: topic-1642673577, partition: 1, offset: 19
topic: topic-1642673577, partition: 1, offset: 20
topic: topic-1642673577, partition: 0, offset: 19
```

5. 登录 ECS 执行消费脚本

脚本目录是：/pathtokafka/kafka_2.12-1.1.0/bin/kafka-console-consumer.sh

执行命令：

bin/kafka-console-consumer.sh --bootstrap-server

192.168.0.18:9092,192.168.0.121:9092,192.168.0.206:9092 --topic topic-1642673577 --group

test_grp --consumer-property enable.auto.commit=true --from-beginning

--bootstrap-server：kafka broker地址，多个已逗号隔开

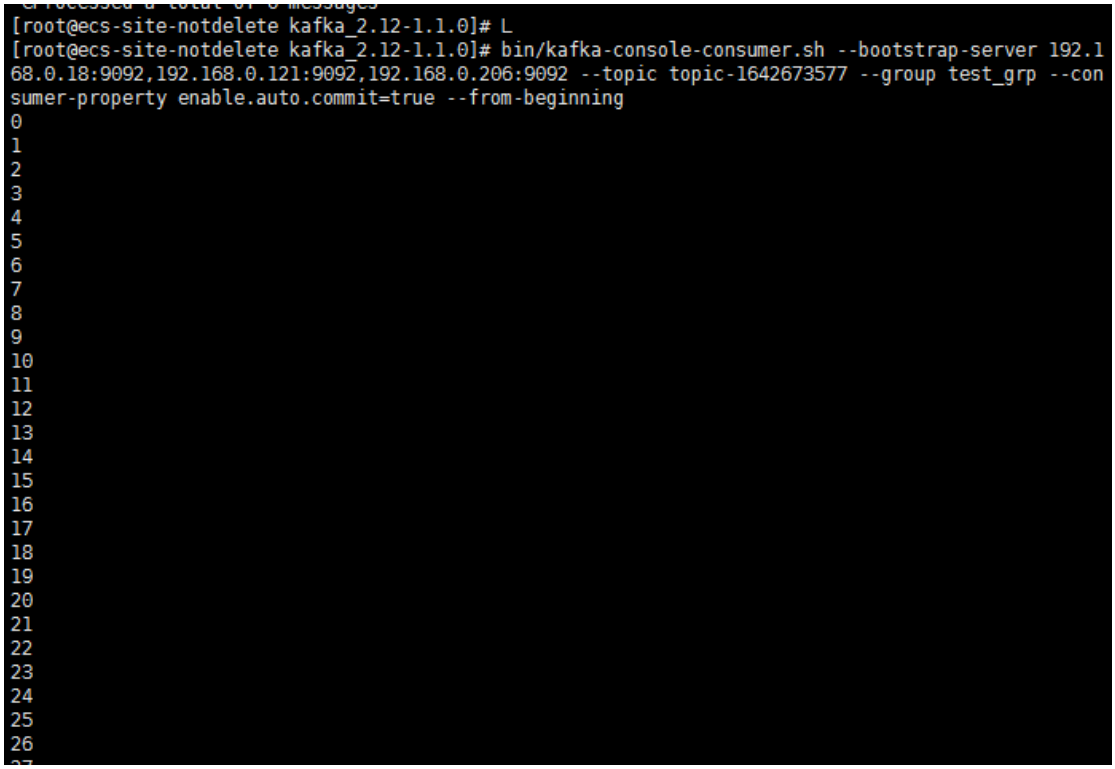
--consumer-property enable.auto.commit=true，设置消费自动提交消费进度

--topic：指定消费消息的topic（在3中创建）

--group：指定消费组名称，可自定义

在消费窗口会显示刚代码生产消息：

（需要保存此截图，并上传至打卡程序）



6. 生产代码 demo

```
package dms.kafka.demo;

import java.util.Properties;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.Future;

import org.apache.kafka.clients.producer.KafkaProducer;
import org.apache.kafka.clients.producer.Producer;
import org.apache.kafka.clients.producer.ProducerRecord;
import org.apache.kafka.clients.producer.RecordMetadata;

public class KafkaProducerDemo
{
    public static void main(String[] args) throws InterruptedException,
ExecutionException
    {
        if (args.length != 2)
        {
            throw new IllegalArgumentException("usage:
dms.kafka.demo.KafkaProducerDemo bootstrap-servers topic-name.");
        }
        Properties props = new Properties();
        props.put("bootstrap.servers", args[0]);
```

```
        props.put("acks", "all");
        props.put("retries", 0);
        props.put("batch.size", 16384);
        props.put("linger.ms", 1);
        props.put("buffer.memory", 33554432);
        props.put("key.serializer",
"org.apache.kafka.common.serialization.StringSerializer");
        props.put("value.serializer",
"org.apache.kafka.common.serialization.StringSerializer");

        Producer<String, String> producer = new KafkaProducer<>(props);
        for (int i = 0; i < 100; i++)
        {
            Future<RecordMetadata> result =
                producer.send(new ProducerRecord<String, String>(args[1],
Integer.toString(i), Integer.toString(i)));
            RecordMetadata rm = result.get();
            System.out.println("topic: " + rm.topic() + ", partition: " +
rm.partition() + ", offset: " + rm.offset());
        }
        producer.close();
    }
}
```