

CCAU Java Sprint Boot 程式範例說明文件

1. 基礎概念:

<https://codingnote.cc/zh-tw/p/64089/>

2. 如何在 Windows 上安裝 Kafka 參考資料:

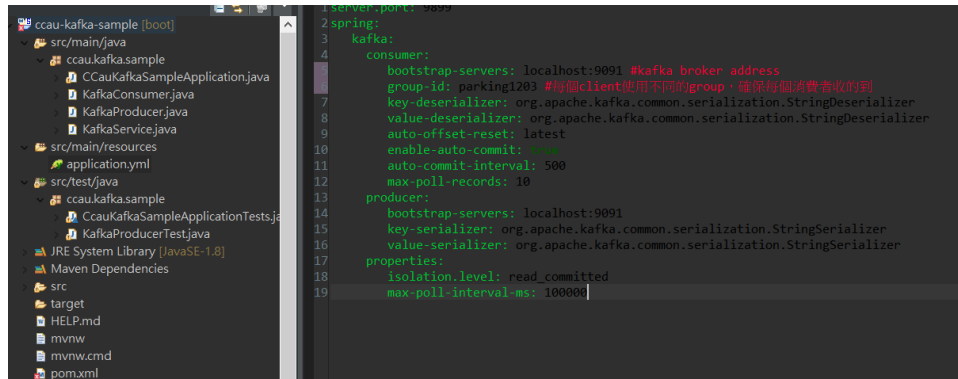
<https://blog.yowko.com/kafka-on-windows/>

3. 程式碼設定說明:

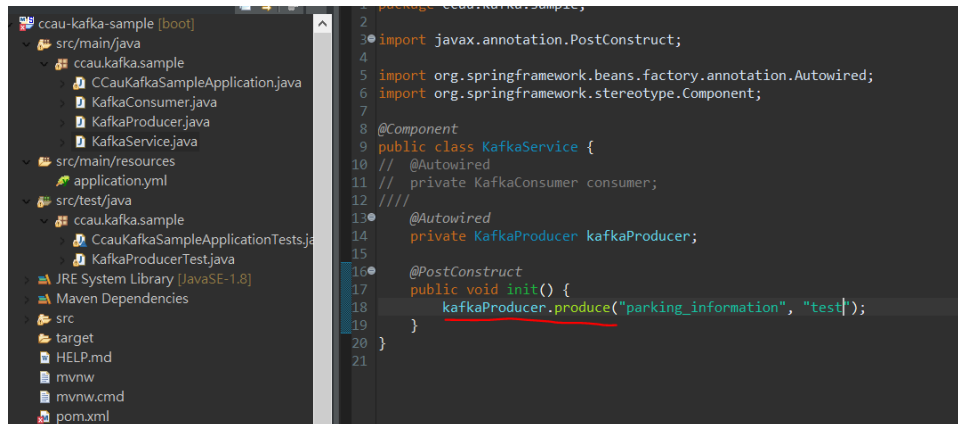
I. 套件 spring-kafka:

<https://spring.io/projects/spring-kafka>

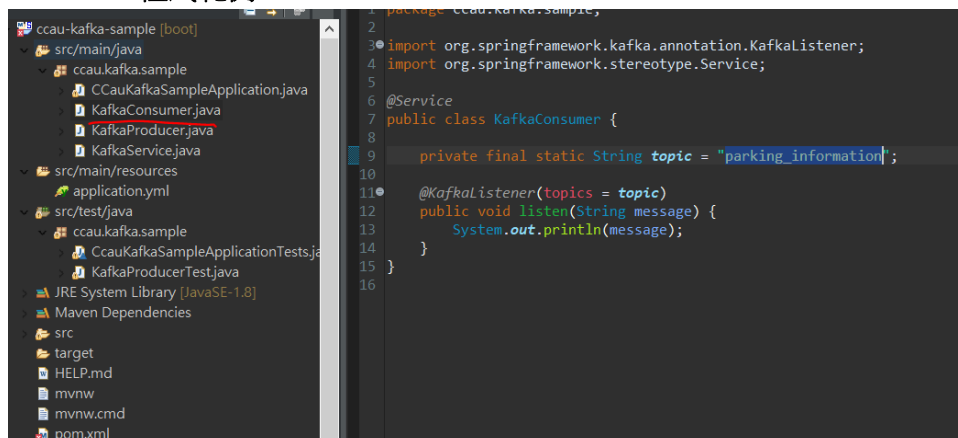
II. Server 位置與 Group ID 設定。



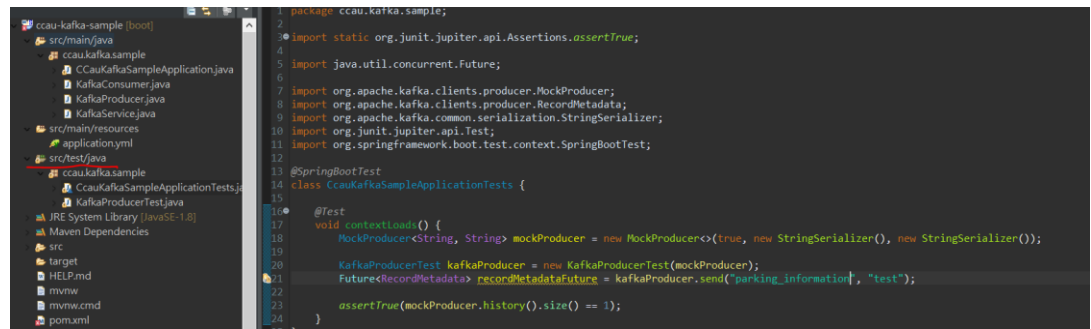
III. Producer 程式範例。



IV. Consumer 程式範例。



V. 單元測試 (Producer)



The screenshot shows an IDE with a project named 'ccau-kafka-sample'. The left sidebar displays the project structure, including 'src/main/java' and 'src/test/java'. The main editor shows the code for 'CcauKafkaSampleApplicationTests.java'. The code is a unit test for the 'KafkaProducer' class, using 'MockProducer' and 'KafkaProducerTest' to verify the 'send' method. The test is annotated with '@SpringBootTest' and '@Test'.

```
1 package ccau.kafka.sample;
2
3 import static org.junit.jupiter.api.Assertions.assertTrue;
4
5 import java.util.concurrent.Future;
6
7 import org.apache.kafka.clients.producer.MockProducer;
8 import org.apache.kafka.clients.producer.RecordMetadata;
9 import org.apache.kafka.common.serialization.StringSerializer;
10 import org.junit.jupiter.api.Test;
11 import org.springframework.boot.test.context.SpringBootTest;
12
13 @SpringBootTest
14 class CcauKafkaSampleApplicationTests {
15
16     @Test
17     void contextLoads() {
18         MockProducer<String, String> mockProducer = new MockProducer<>(true, new StringSerializer(), new StringSerializer());
19
20         KafkaProducerTest kafkaProducer = new KafkaProducerTest(mockProducer);
21         Future<RecordMetadata> recordMetadataFuture = kafkaProducer.send("parking_information", "test");
22
23         assertTrue(mockProducer.history().size() == 1);
24     }
25 }
```