

KAFKA INSTALLATION IN WINDOW

1) Download Kafka

From Apache Kafka

Extract .tgz file into c direction

2) Install Java

From oracle

Setup java home environment variable

3) Start ZooKeeper and Kafka Using Command Prompt

Start Zookeeper:

```
(.\bin\windows\zookeeperserverstart.bat.\config\zookeeper.properties)
```

Open New Command Prompt And Start Kafka Broker:

```
(.\bin\windows\kafka-topics.bat --create --topic test-topic --bootstrap-server localhost:9092 --partitions 1 --replication-factor 1)
```

4) Install Kafka Js In Node Js Terminal

(npm install kafkajs)

5) Create Producer.js

```
const { Kafka } = require("kafkajs");
```

```
const kafka = new Kafka({  
  clientId: "my-producer",  
  brokers: ["localhost:9092"], // Kafka broker address  
});
```

```
const producer = kafka.producer();

const produceMessage = async () => {
  await producer.connect();
  try {
    await producer.send({
      topic: "test-topic",
      messages: [{ value: "Hello from Node.js producer!" }],
    });
    console.log("Message sent successfully!");
  } catch (error) {
    console.error("Error in sending message:", error);
  } finally {
    await producer.disconnect();
  }
};

produceMessage();
```

6) Create Consumer.js

```
const { Kafka } = require("kafkajs");

const kafka = new Kafka({
  clientId: "my-consumer",
  brokers: ["localhost:9092"], // Kafka broker address
});

const consumer = kafka.consumer({ groupId: "test-group" });

const consumeMessages = async () => {
  await consumer.connect();
```

```
await consumer.subscribe({ topic: "test-topic", fromBeginning: true });

await consumer.run({
  eachMessage: async ({ topic, partition, message }) => {
    console.log(`Received message: ${message.value.toString()}`);
  },
});

consumeMessages();
```

7) Run Producer.js

```
node producer.js
```

8) Run Consumer.js

```
node consumer.js
```