# **Building and Running Apache Kafka 2.5.0 on Windows**

# 1. Prerequisites

Make sure the following are installed and properly configured in PATH:

```
- Java 11 (OpenJDK)
```

- Scala 2.13.11
- Gradle 6.3
- Git for Windows

### 2. Clone Kafka 2.5.0 Source Code

```
git clone https://github.com/apache/kafka.git cd kafka git checkout tags/2.5.0 -b kafka-2.5.0
```

# 3. Fix build.gradle and settings.gradle

In build.gradle:

- Remove all 'grgit' plugin lines and dependencies
- Remove spotless plugin block and references

```
In settings.gradle:
Add at the top:
pluginManagement {
   repositories {
      gradlePluginPortal()
      mavenCentral()
   }
}
```

## 4. Generate Gradle Wrapper

```
gradle wrapper --gradle-version 6.3
```

Then run the build:

.\gradlew.bat clean releaseTarGz -x test

Output: core\build\distributions\kafka\_2.13-2.5.0.tgz

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## 5. Extract and Run Kafka

Extract kafka\_2.13-2.5.0.tgz to a folder like C:\kafka\_2.13-2.5.0

### Start ZooKeeper:

. in\windows\zookeeper-server-start.bat .\config\zookeeper.properties

#### Start Kafka:

. in\windows\kafka-server-start.bat .\config\server.properties

# 6. Create Topic, Produce & Consume

## Create topic:

. in\windows\kafka-topics.bat --create --topic my-topic --bootstrap-server localhost:9092 --partitions 1 --replication-factor

#### Produce:

. in\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic my-topic

#### Consume:

. in\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic my-topic --from-beginning