

# Kafka 3.7.0: Building from Source on Windows

This guide outlines the full step-by-step journey of building Apache Kafka 3.7.0 from source on Windows, including necessary fixes.

1. Install OpenJDK 11, set JAVA\_HOME, add it to PATH. Confirm with: `java -version`
2. Install Scala 2.13.11 and add it to PATH.
3. Install Git.
4. Install Gradle 8.5 and add it to PATH. Confirm with: `gradle -v`
5. Clone Kafka: `git clone https://github.com/apache/kafka.git`
6. Move into the kafka folder: `cd kafka`
7. Checkout version: `git checkout tags/3.7.0 -b kafka-3.7`
8. Run: `gradle wrapper`
9. If `gradlew.bat` is missing, create it manually with the following content:

```
@echo off
@rem -----
@rem Gradle startup script for Windows
@rem -----

set DIR=%~dp0
set GRADLE_WRAPPER_JAR=%DIR%gradle\wrapper\gradle-wrapper.jar
set GRADLE_PROPERTIES=%DIR%gradle\wrapper\gradle-wrapper.properties

java      -Dorg.gradle.appname=gradlew      -classpath      "%GRADLE_WRAPPER_JAR%"
org.gradle.wrapper.GradleWrapperMain %*
```

10. Run build: `.\gradlew.bat clean releaseTarGz -x test`
11. Extract the .tgz file from `core/build/distributions/`
12. Move extracted folder to a short path like `C:\kafka_2.13-3.7.0`
13. Open PowerShell
14. Start ZooKeeper using:  

```
java -cp ".\libs\*;.\core\libs\*" org.apache.zookeeper.server.quorum.QuorumPeerMain
config\zookeeper.properties
```

15. Start Kafka broker using:

```
java -cp ".\libs\*;\core\libs\*;\core\build\libs\*" kafka.Kafka config\server.properties
```