

Exercise #5

Submission:

Submit your exercise as a SINGLE ZIP file on Canvas by the due date.
Your submitted ZIP file must have the name:
Exercise_5_Your_LastName.zip

Deliverables:

Your ZIP file for the exercise submission must include the following:

- All source code that you installed, compiled and built on your personal computer.
- Panopto video recording of a live run of your code on your personal development computer.

Requirements Specification:

Download, install, and test-drive Kafka2.6.0.

Environment setup and dependencies

1. Please note that you must first setup your personal development computer environment by the running the script (env-setup-for-kafka-2.6.bat) from the command line window/terminal
2. If you are using Windows, you need to run kafka commands from the directory: C:\Workbench\kafka_2.13-2.6.0\bin\windows
3. Kafka uses /tmp/kafka-logs to writes its log, and ZooKeeper uses /tmp/zookeeper to write its logs. Depending on your machine,
4. Location of the log directoried for kafaka and zookeeper are specified in the following files:
 - 1) C:\Workbench\kafka_2.13-2.6.0\config\server.properties
 - 2) C:\Workbench\kafka_2.13-2.6.0\config\ zookeeper.properties

After you install Kafka on your personal development computer, you will run the applications :

- 1) runYellingApp
- 2) runZmartAdvancedChapter_3

1. Run the runYellingApp Kafka Application

1. All required tools must be installed in the directory:

- C:\Workbench

2. Startup Zookeeper

- Start a terminal/window on your computer
- Change directory to:
C:\Workbench
- Execute from the command line the script:
env-setup-for-kafka-2.6.bat
- Execute the following command to verify your environment Java SDK setup
java -version
- Change directory to:
C:\Workbench\kafka_2.13-2.6.0
- Execute from the command line the following command:
.bin\windows\zookeeper-server-start.bat config\zookeeper.properties

3. Startup Kafka Server

- Start a terminal/window on your computer
- Change directory to:
C:\Workbench
- Execute from the command line the script:
env-setup-for-kafka-2.6.bat
- Execute the following command to verify your environment Java SDK setup
java -version
- Change directory to:
C:\Workbench\kafka_2.13-2.6.0
- Execute from the command line the following command:
.bin\windows\kafka-server-start.bat config\server.properties

4. Run the runYellingApp

- Start a terminal/window on your computer
- Change directory to:
C:\Workbench
- Execute from the command line the script:
env-setup-for-kafka-2.6.bat
- Execute the following command to verify your environment Java SDK setup
java -version
- Change directory to:
C:\Workbench\kafka-streams-in-action-master-new
- Execute from the command line the following command:
.gradlew runYellingApp

5. Terminate Kafka

- Stop the Kafka broker with Ctrl-C.
- Stop the ZooKeeper server with Ctrl-C.

2. Run the runZmartAdvancedChapter_3 Kafka Application

1. All required tools must be installed in the directory:

- C:\Workbench

2. Startup Zookeeper

- Start a terminal/window on your computer
- Change directory to:
C:\Workbench
- Execute from the command line the script:
env-setup-for-kafka-2.6.bat
- Execute the following command to verify your environment Java SDK setup
java -version
- Change directory to:
C:\Workbench\kafka_2.13-2.6.0
- Execute from the command line the following command:
.\bin\windows\zookeeper-server-start.bat config\zookeeper.properties

3. Startup Kafka Server

- Start a terminal/window on your computer
- Change directory to:
C:\Workbench
- Execute from the command line the script:
env-setup-for-kafka-2.6.bat
- Execute the following command to verify your environment Java SDK setup
java -version
- Change directory to:
C:\Workbench\kafka_2.13-2.6.0
- Execute from the command line the following command:
.\bin\windows\kafka-server-start.bat config\server.properties

4. Run the runYellingApp

- Start a terminal/window on your computer
- Change directory to:
C:\Workbench
- Execute from the command line the script:
env-setup-for-kafka-2.6.bat
- Execute the following command to verify your environment Java SDK setup
java -version
- Change directory to:
C:\Workbench\kafka-streams-in-action-master-new
- Execute from the command line the following command:
.\gradlew runZmartAdvancedChapter_3

5. Terminate Kafka

- Stop the Kafka broker with Ctrl-C.
- Stop the ZooKeeper server with Ctrl-C.