

Startup Trace for Kafka Application

- When you are prototyping and debugging your application, delete the files in the following directories:
 1. C:\Workbench\kafka_2.13-2.8.0\logs
 2. C:\tmp\kafka-logs
- When you are prototyping and debugging OnMart application, delete the following files:
 1. C:\Workbench\OnMartData\PurchasesLog.csv
 2. C:\Workbench\OnMartData\ WarehouseDistributionCenterLog.csv
- The following file has the configuration for OnMart SupplyChain Network for the served Zip Codes :
 - C:\Workbench\OnMartData\ Warehouse_Distribution_Centers.csv

- The following is the list of files that you will experiment with:

1. C:\Workbench\kafka-streams-in-action-master-new\src\main\java\bbejeck\chapter_3\ZMartKafkaStreamsAdvancedReqsApp.java
2. C:\Workbench\kafka-streams-in-action-master-new\src\main\java\bbejeck\clients\producer\MockDataProducer.java
3. C:\Workbench\kafka-streams-in-action-master-new\src\main\java\bbejeck\util\datagen\DataGenerator.java
4. C:\Workbench\kafka-streams-in-action-master-new\src\main\java\bbejeck\chapter_3\LogsBuilder.java
5. C:\Workbench\kafka-streams-in-action-master-new\src\main\java\bbejeck\model\Purchase.java

- To build, run, and unit-test OnMart Application, follow the instructions below:

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_2.13-2.8.0

- Execute from the command line the following command:

.\bin\windows\zookeeper-server-start.bat

.\config\zookeeper.properties

```
Command Prompt
C:\Workbench>env-setup-for-kafka-2.6.bat
```

```
Command Prompt
C:\Workbench>java -version
java version "11.0.4" 2019-07-16 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.4+10-LTS)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.4+10-LTS, mixed mode)
C:\Workbench>
```

```
Command Prompt
C:\workbench\kafka_2.13-2.6.0>.bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties
```

3. 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

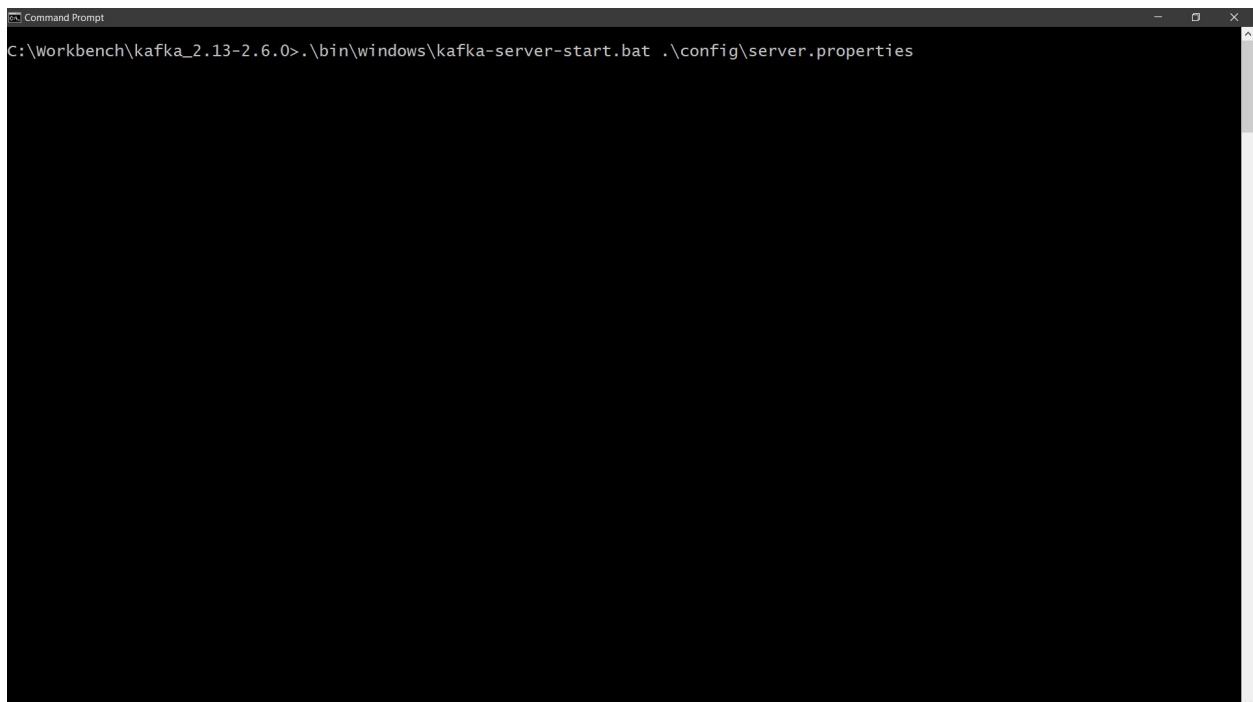
java -version

- Change directory to:

C:\Workbench\kafka_2.13-2.8.0

- Execute from the command line the following command:

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



The screenshot shows a Windows Command Prompt window with a black background and white text. The title bar at the top reads "Command Prompt". The command prompt shows the current directory as "C:\Workbench\kafka_2.13-2.6.0" and the command being executed as ".\bin\windows\kafka-server-start.bat .\config\server.properties". The command has been entered, but the output is not visible in the screenshot.

```
Command Prompt
C:\Workbench\kafka_2.13-2.6.0>.\bin\windows\kafka-server-start.bat .\config\server.properties
```

4. Startup your Real-Time Stream Application

- First, verify that the Warehouse_Distribution_Centers.csv for OnMart Warehouses and Distribution centers network is located in the directory:

C:\Workbench\OnMartTransactions

- 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:

gradle wrapper

- Execute from the command line the following command:

.\gradlew runZmartAdvancedChapter_3

```
Command Prompt
C:\workbench\kafka-streams-in-action-master-new>gradle wrapper
```

```
Command Prompt
C:\workbench\kafka-streams-in-action-master-new>.\gradlew runZmartAdvancedChapter_3
```


5. Inspect the real-time data streaming transactions in the logs stored in the directory

- C:\Workbench\OnMartTransactions