Exercises:

1. Download and install Kafka (extract kafka from Zip file)

wget <https://archive.apache.org/dist/kafka/2.8.0/kafka_2.12-2.8.0.tgz>

tar -xzf kafka\_2.12-2.8.0.tgz

2. Start the Zookeeper server for Kafka metadata management

cd kafka\_2.12-2.8.0

bin/zookeeper-server-start.sh config/zookeeper.properties

**Note**: ZooKeeper, as of this version, is required for Kafka to work. ZooKeeper is responsible for the overall management of Kafka cluster. It monitors the Kafka brokers and notifies Kafka if any broker or partition goes down, or if a new broker or partition goes up.

3. Start the Kafka message broker service

cd kafka\_2.12-2.8.0

bin/kafka-server-start.sh config/server.properties

4. Create a topic (named news in new terminal) (post messages)

cd kafka\_2.12-2.8.0

bin/kafka-topics.sh --create --topic news --bootstrap-server localhost:9092

5. Start a producer (send messages)

bin/kafka-console-producer.sh --topic news --bootstrap-server localhost:9092

**Note:** Once the producer starts, and you get the ‘>’ prompt, type any text message and press enter any message.

6. Start a consumer (named news in new terminal) (read messages)

cd kafka\_2.12-2.8.0

bin/kafka-console-consumer.sh --topic news --from-beginning --bootstrap-server localhost:9092

You should see all the messages you sent from the producer appear here.

You can go back to the producer terminal and type some more messages, one message per line, and you will see them appear here.

7. Explore Kafka directories.

Kafka uses the directory /tmp/kakfa-logs to store the messages.

Explore the folder news-0 inside /tmp/kakfa-logs.

This is where all the messages are stored.

Explore the folder /home/project/kafka\_2.12-2.8.0

This folder has the below 3 sub directories.

|  |  |
| --- | --- |
| **Directory** | **Contents** |
| bin | shell scripts to control kafka and zookeeper |
| config | configuration files |
| logs | log files forkafka and zookeeper |

Previous

8. Clean up

rm kafka\_2.12-2.8.0.tgz