# **Getting Started with Kafka Command Line**

# 1. Download Kafka

Download kafka from below site.

https://kafka.apache.org/downloads (kafka\_2.12-2.6.0.tgz)

# 2. Kafka Commands

Open a command prompt window and go to the location where 'Kafka' download is present.

To start Kafka, below comments needs to be executed, let's see them one by one-

### Start Zookeeper

Command -

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

```
[2020-09-06 19:14:49.865] INFO Created server with tickTime 3000 minSessionTimeout 60000 maxSessionTimeout 60000 datadir \tmp\zookeeper\version-2 snapdir \tmp\zookeeper\version-2 (Org. apache.zookeeper.server.Zookeeper.server.ServerCoxnFactory)
[2020-09-06 19:14:50.089] INFO Using org.apache.zookeeper.server.NIOServerCoxnFactory)
[2020-09-06 19:14:50.121] INFO Configuring NIO connection handler with 10s sessionless connection timeout, 1 selector thread(s), 8 worker threads, and 64 kB direct buffers. (org.apache.zookeeper.server.NIOServerCoxnFactory)
[2020-09-06 19:14:50.165] INFO binding to port 0.0.0.0/0.0.0.0:2181 (org.apache.zookeeper.server.NIOServerCoxnFactory)
[2020-09-06 19:14:50.381] INFO coxeeper.server.server.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.zerver.z
```

### Start Kafka

Command -

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

```
c:\Deepak\Softwares\kafka_2.12-2.6.0>.\bin\windows\kafka-server-start.bat .\config\server.properties
Picked up _JAVA_OPTIONS: _xms16 -xms26
[2020-09-06 20:39:39,346] INFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistration$)
log4j:ERROR Failed to rename [c:\Deepak\Softwares\kafka_2.12-2.6.0/logs/server.log] to [c:\Deepak\Softwares\kafka_2.12-2.6.0/logs/server.log.2020-09-06-19].
[2020-09-06 20:39:31,324] INFO Setting -D jdk.tls.rejectClientInitiatedRenegotiation=true to disable client-initiated TLS renegotiation (org.apache.zookeeper.common.X50
9Util)
[2020-09-06 20:39:31,427] INFO Starting (kafka.server.KafkaServer)
[2020-09-06 20:39:31,428] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2020-09-06 20:39:31,428] INFO [ZookeeperClient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZookeeperClient)
[2020-09-06 20:39:34,677] INFO Client environment:zookeeper.version=3.5.8-f439ca583e70862c3068a1f2a7d4d068eec33315, built on 05/04/2020 15:53 GMT (org.apache.zookeeper.Zookeeper)
```

```
[2020-09-06 20:39:54,088] INFO [TransactionCoordinator id-0] Starting up. (kafka.coordinator.transaction.TransactionCoordinator)
[2020-09-06 20:39:54,091] INFO [TransactionCoordinator id-0] Starting (kafka.coordinator.transaction.TransactionMarkerchannelManager)
[2020-09-06 20:39:54,101] INFO [IransactionCoordinator id-0] Startup complete. (kafka.coordinator.transaction.TransactionMarkerchannelManager)
[2020-09-06 20:39:54,101] INFO [ExpirationReaper-0-AlterAcls]: Starting (kafka.server.DelayedOperationPurgatory$ExpiredOperationReaper)
[2020-09-06 20:39:54,106] INFO [config/changes-event-process-thread]: Starting (kafka.common.ZkNodeChangeNotificationListener$ChangeEventProcessThread)
[2020-09-06 20:39:54,230] INFO [SocketServer brokerId-0] Starting socket server acceptors and processors (kafka.network.SocketServer)
[2020-09-06 20:39:54,230] INFO [SocketServer brokerId-0] Started data-plane acceptor and processors (kafka.network.SocketServer)
[2020-09-06 20:39:54,230] INFO [SocketServer brokerId-0] Started data-plane acceptor and processors (kafka.network.SocketServer)
[2020-09-06 20:39:54,232] INFO [SocketServer brokerId-0] Started socket server acceptors and processors (kafka.network.SocketServer)
[2020-09-06 20:39:54,232] INFO Kafka version: 2.6.0 (org.apache.kafka.common.utils.AppInfoParser)
[2020-09-06 20:39:54,322] INFO Kafka commitd: 62abe01be039051 (org.apache.kafka.common.utils.AppInfoParser)
[2020-09-06 20:39:54,322] INFO [KafkaServer id-0] started (kafka.server.KafkaServer)
```

### **Create Topic with 1 Partition and 1 Replica**

#### Command -

.\bin\windows\kafka-topics.bat --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 -- topic HelloWorldTopic

```
C:\Deepak\Softwares\kafka_2.12-2.6.0>.\bin\windows\kafka-topics.bat --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic Hello-World-Topic
Picked up _JAVA_OPTIONS: -Xms1G -Xmx2G
Created topic Hello-World-Topic.
C:\Deepak\Softwares\kafka_2.12-2.6.0>
```

# <u>Create Producer and send message to Topic</u>

#### Command -

.\bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic HelloWorldTopic --property "parse.key=true" --property "key.separator=:"

```
c:\Deepak\Softwares\kafka_2.12-2.6.0>.\bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic Hel
loWorldTopic --property "parse.key=true" --property "key.separator=:"
Picked up _JAVA_OPTIONS: -Xms1G -Xmx2G
```

#### **Start Consumer**

#### Command -

.\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --from-beginning --topic HelloWorldTopic --partition 0

```
c:\Deepak\Softwares\kafka_2.12-2.6.0>.\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --from-b
eginning --topic HelloWorldTopic -partition 0
Picked up _JAVA_OPTIONS: -Xms1G -Xmx2G
```

# 3. Sending & Receiving Messages

```
**Command Prompt - \bin\windows\kafka-console-producer.bat --broker-list localhost:9992 --topic HelioWorldTopic --property "parse.key-true" --pr... — XMicrosoft Kurlosoft Kurlosoft (c) 2819 Microsoft Corporation. All rights reserved.

C:\Users\Deepak\Softwares\kafka_2.12-2.6.0>.\bin\windows\kafka_2.12-2.6.0

c:\Deepak\Softwares\kafka_2.12-2.6.0>.\bin\windows\kafka_console-producer.bat --broker-list localhost:9092 --topic HelloWorldTopic --property "parse.key-true" --property "key.separator-:" --property "key.separator-:" --broker-list localhost:9092 --topic HelloWorldTopic --property "key.separator-:" --property "key.
```