

Steps to configure Kafka cluster with multi broker instances

1. Download Kafka binaries from <https://kafka.apache.org/downloads>
2. Unzip the archive to local directory. For example, the unzipped kafka directory is:
kafka_2.13-2.6.0
3. Edit the following property in zookeeper.properties file in the "kafka_2.13-2.6.0/config" directory:
dataDir=/tmp/zookeeper to dataDir=/tmp/cluster_one/zookeeper
Note: This step is optional and to separate existing files, we are configuring it to an all new directory.
4. Make copies of server.properties file in "kafka_2.13-2.6.0/config" and name as follows:
server_1.properties, server_2.properties, server_3.properties... equal to the number of brokers we want to configure. Edit/add the following properties in these files as below:

```
server_1.properties
broker.id=1
port=9092
log.dirs=/tmp/cluster/kafka2-logs-1
```

```
server_2.properties
broker.id=2
port=9093
log.dirs=/tmp/cluster/kafka2-logs-2
```

```
server_3.properties
broker.id=3
port=9094
log.dirs=/tmp/cluster/kafka2-logs-3
```

Note: The log.dirs can be configured as per your requirement. But should be different for all these.

5. Run the zookeeper with zookeeper.properties
6. Run the Kafka server in three separate terminals (in it's own terminal), each with the new server properties file. Example:

```
bin/kafka-server-start.sh config/server_1.properties
```

```
bin/kafka-server-start.sh config/server_2.properties
```

```
bin/kafka-server-start.sh config/server_3.properties
```

7. Update your bootstrap server property of the application to point to the list of servers. Example:

```
kafka.bootstrap.servers=localhost:9092,localhost:9093,localhost:9094
```

you can see the brokers list as below in the Kafkatool

The screenshot shows the Kafka Tool 2.0.7 interface. On the left, a sidebar displays a tree view under 'Clusters' with a sub-entry 'test'. Under 'test', there are three 'Brokers' listed with their IP addresses: 192.168.1.4:9092, 192.168.1.4:9093, and 192.168.1.4:9094. Below these are 'Topics' (ravi-9-11-2, __consumer_offsets) and 'Consumers' (ravi-9-11-01). The main panel on the right is titled 'Brokers' and contains a table with the following data:

Id	Host	Port
1	192.168.1.4	9092
2	192.168.1.4	9093
3	192.168.1.4	9094

The table has a 'Filter' input field at the top right. The interface also includes a 'Browser' tab at the top and a status bar at the bottom.