

Pricing	Apache Kafka is an open-source.
URL	https://kafka.apache.org/
Wiki	https://cwiki.apache.org/confluence/display/KAFKA/Index
Docs	https://kafka.apache.org/documentation/
Use Cases	https://kafka.apache.org/uses
Quickstart	https://kafka.apache.org/quickstart
Setup Tutorial	https://youtu.be/BkL5bIN057M?si=e4r9Q0Y0ICbuEHme
Sr No.	Prerequisites
1	Java version (java --version) { My System : 11.0.21 }
2	RAM Size : minimum 512 MB
3	Kafka Download : https://kafka.apache.org/downloads
4	Zookeeper Download : https://zookeeper.apache.org/releases.html
Steps	Zookeeper Setup
1	Unzip Downloaded tar.gz file >> Go To Conf
	Create zoo.cfg >> tickTime=2000 initLimit=10 syncLimit=5 dataDir=/tmp/zookeeper clientPort=2181 maxClientCnxns=60 2 4lw.commands.whitelist=*
3	Run Zookeeper
	CMD >> Start and stop zookeeper Start Foreground : bin/zkServer.sh start-foreground Start Background : bin/zkServer.sh start Stop : bin/zkServer.sh stop Connection Validation : echo stat nc localhost 2181
Steps	Kafka Setup
1	Unzip Downloaded tgz file >> Go To Config

	Edit server.properties >> broker.id = 1 2 listeners = PLAINTEXT://localhost:9092
	3 First Start zookeeper then run below command to start Kafka.
	CMD >> Start and stop Kafka Start Foreground : bin/kafka-server-start.sh config/server.properties Start Background : bin/kafka-server-start.sh -daemon config/server.properties Stop : bin/kafka-server-stop.sh Connection Validation : echo dump nc localhost 2181 grep brokers Add this server option when you need to create multiple zk node : server.1=localhost:2788:3788 server.2=localhost:2888:3888 server.3=localhost:2988:3988
	4 log check >> tail -100f logs server.log
Topic Creation	
Step 1	Create topic
Create cmd	bin/kafka-topics.sh --bootstrap-server localhost:9092 --create --topic myTopic --partitions 1 --replication-factor 1
List	bin/kafka-topics.sh --bootstrap-server localhost:9092 --list
Describe topic	bin/kafka-topics.sh --bootstrap-server localhost:9092 --describe --topic topic-name
Step 2	Create producer
Create cmd	bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic myTopic
Step 3	Create consumer
Create cmd	bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic myTopic --from-beginning
Read latest message	bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic myTopic
Step 4	Consumer-Group
list	bin/kafka-consumer-groups.sh --bootstrap-server localhost:9092 --list
Describe group	bin/kafka-consumer-groups.sh --bootstrap-server localhost:9092 --describe --group console-consumer-21706
Step 5	Consumer offset
list	bin/kafka-topics.sh --bootstrap-server localhost:9092 --list
Step 6	Create consumer group
Create cmd	bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 -topic myTopic--group myConsumerGroup

Steps	Single Node-Multiple Brokers Configuration
Step 1	<p>Create multiple config/server.properties file :</p> <p>config/server-one.properties # The id of the broker. This must be set to a unique integer for each broker. broker.id=1 # The port the socket server listens on port=9093 # A comma seperated list of directories under which to store log files log.dirs=/tmp/kafka-logs-1</p> <p>config/server-two.properties # The id of the broker. This must be set to a unique integer for each broker. broker.id=2 # The port the socket server listens on port=9094 # A comma seperated list of directories under which to store log files log.dirs=/tmp/kafka-logs-2</p>
Step 2	<p>Broker1 bin/kafka-server-start.sh config/server-one.properties</p> <p>Broker2 bin/kafka-server-start.sh config/server-two.properties</p>
Step 3	bin/kafka-topics.sh --bootstrap-server localhost:9092,localhost:9093 --create --topic mySub --partitions 3 --replication-factor 2
Step 4	bin/kafka-topics.sh --bootstrap-server localhost:9092 --describe --topic mySub
Step 5	bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic mySub --from-beginning
Delete Topic CMD	bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --delete --topic mySub