***Apache Kafka***

**Start Zookeeper Server :**

C:\kafka\_2.13-2.6.0>zookeeper-server-start.bat config\zookeeper.properties

**Start Kafka Server:**

C:\kafka\_2.13-2.6.0>kafka-server-start.bat config\server.properties

**Topic :**

**Create:**

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --topic myfirst --create --partitions 3 --replication-factor 1

Created topic myfirst.

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --topic myfirst --create --partitions 3 --replication-factor 1

Error while executing topic command : Topic 'myfirst' already exists.

[2021-02-09 19:02:47,208] ERROR org.apache.kafka.common.errors.TopicExistsException: Topic 'myfirst' already exists.

(kafka.admin.TopicCommand$)

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --topic credit-message --create --partitions 3 --replication-factor 1

Created topic credit-message.

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --topic debit-message --create --partitions 3 --replication-factor 1

Created topic debit-message.

**List:**

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --list

credit-message

debit-message

myfirst

**Describe:**

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --describe --topic myfirst

Topic: myfirst PartitionCount: 3 ReplicationFactor: 1 Configs:

Topic: myfirst Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: myfirst Partition: 1 Leader: 0 Replicas: 0 Isr: 0

Topic: myfirst Partition: 2 Leader: 0 Replicas: 0 Isr: 0

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --describe --topic credit-message

Topic: credit-message PartitionCount: 3 ReplicationFactor: 1 Configs:

Topic: credit-message Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: credit-message Partition: 1 Leader: 0 Replicas: 0 Isr: 0

Topic: credit-message Partition: 2 Leader: 0 Replicas: 0 Isr: 0

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --describe --topic debit-message

Topic: debit-message PartitionCount: 3 ReplicationFactor: 1 Configs:

Topic: debit-message Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: debit-message Partition: 1 Leader: 0 Replicas: 0 Isr: 0

Topic: debit-message Partition: 2 Leader: 0 Replicas: 0 Isr: 0

**Delete:**

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --topic delete-topic --create --partitions 3 --replication-factor 1

Created topic delete-topic.

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --list

credit-message

debit-message

delete-topic

myfirst

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --describe --topic delete-topic

Topic: delete-topic PartitionCount: 3 ReplicationFactor: 1 Configs:

Topic: delete-topic Partition: 0 Leader: 0 Replicas: 0 Isr: 0

Topic: delete-topic Partition: 1 Leader: 0 Replicas: 0 Isr: 0

Topic: delete-topic Partition: 2 Leader: 0 Replicas: 0 Isr: 0

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --delete --topic delete-topic

Topic delete-topic is marked for deletion.

Note: This will have no impact if delete.topic.enable is not set to true.

**Kafka Console Producer ::**

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic myfirst

>Hello Apache Kafka

>This is the first producer

>Terminate batch job (Y/N)? y

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic credit-message

>10000 credited to your account

>Axis Bank

>Terminate batch job (Y/N)? y

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic debit-message

>5000 debited from your account

>Axis Bank

>Terminate batch job (Y/N)? y

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic demo

>Hi This is demo topic

[2021-02-09 21:20:43,186] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 3 : {demo=LEADER\_NOT\_AVAILABLE} (org.apache.kafka.clients.NetworkClient)

[2021-02-09 21:20:43,301] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 4 : {demo=LEADER\_NOT\_AVAILABLE} (org.apache.kafka.clients.NetworkClient)

[2021-02-09 21:20:43,421] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 5 : {demo=LEADER\_NOT\_AVAILABLE} (org.apache.kafka.clients.NetworkClient)

>Terminate batch job (Y/N)? y

C:\>kafka-topics.bat --zookeeper 127.0.0.1:2181 --describe --topic demo

Topic: demo PartitionCount: 1 ReplicationFactor: 1 Configs:

Topic: demo Partition: 0 Leader: 0 Replicas: 0 Isr: 0

**Kafka Console Consumer ::**

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst

Hi

This is first message

Processed a total of 2 messages

Terminate batch job (Y/N)? y

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic myfirst

>Hi

>This is first message

>Terminate batch job (Y/N)? y

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst --from-beginning

Hi

This is the first producer

Hello Apache Kafka

This is first message

**Kafka Console Consumer Group::**

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst --group first\_app

Processed a total of 0 messages

Terminate batch job (Y/N)? y

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic myfirst

>Hi this

>is

>Mithun

>Majumdar

>Terminate batch job (Y/N)? y

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst

Hi this

is

Mithun

Majumdar

Processed a total of 4 messages

Terminate batch job (Y/N)?

Terminate batch job (Y/N)? y

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst --group first\_app

is

Majumdar

Hi this

Mithun

Processed a total of 4 messages

Terminate batch job (Y/N)? y

C:\>kafka-console-producer.bat --broker-list 127.0.0.1:9092 --topic myfirst

>one

>thw

>three

>four

>five

>six

>seven

>eight

>nine

>ten

>Terminate batch job (Y/N)? y

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst --group first\_app

one

three

five

six

eight

ten

Processed a total of 6 messages

Terminate batch job (Y/N)? y

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst --group first\_app

thw

four

seven

nine

Processed a total of 4 messages

Terminate batch job (Y/N)? y

C:\>kafka-console-consumer.bat --bootstrap-server 127.0.0.1:9092 --topic myfirst --group second\_app --from-beginning

Hi

is

Majumdar

thw

four

seven

nine

This is the first producer

three

six

ten

Hello Apache Kafka

This is first message

Hi this

Mithun

one

five

eight

Processed a total of 60 messages

Terminate batch job (Y/N)? y

C:\>kafka-consumer-groups.bat --bootstrap-server 127.0.0.1:9092 --list

first\_app

second\_app

C:\>kafka-consumer-groups.bat --bootstrap-server 127.0.0.1:9092 --describe --group first\_app

Consumer group 'first\_app' has no active members.

GROUP TOPIC PARTITION CURRENT-OFFSET LOG-END-OFFSET LAG CONSUMER-ID HOST CLIENT-ID

first\_app myfirst 2 19 19 0 - - -

first\_app myfirst 1 18 18 0 - - -

first\_app myfirst 0 23 23 0 - - -

C:\>kafka-consumer-groups.bat --bootstrap-server 127.0.0.1:9092 --group first\_app --reset-offsets --to-earliest --execute --topic myfirst

GROUP TOPIC PARTITION NEW-OFFSET

first\_app myfirst 0 0

first\_app myfirst 1 0

first\_app myfirst 2 0

C:\>kafka-consumer-groups.bat --bootstrap-server 127.0.0.1:9092 --group first\_app --reset-offsets --shift-by 2 --execute --topic myfirst

GROUP TOPIC PARTITION NEW-OFFSET

first\_app myfirst 0 2

first\_app myfirst 1 2

first\_app myfirst 2 2

C:\>kafka-consumer-groups.bat --bootstrap-server 127.0.0.1:9092 --group first\_app --reset-offsets --shift-by 1 --execute --topic myfirst

GROUP TOPIC PARTITION NEW-OFFSET

first\_app myfirst 0 3

first\_app myfirst 1 3

first\_app myfirst 2 3

C:\>kafka-consumer-groups.bat --bootstrap-server 127.0.0.1:9092 --group first\_app --reset-offsets --shift-by -2 --execute --topic myfirst

GROUP TOPIC PARTITION NEW-OFFSET

first\_app myfirst 0 1

first\_app myfirst 1 1

first\_app myfirst 2 1