

First Start Zookeeper

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

```
[2018-12-23 23:53:19,365] INFO Kafka commitId : f10ef2720b03b247 (org.apache.kaf
ka.common.utils.AppInfoParser)
[2018-12-23 23:53:19,365] INFO [Kafka Server 0], started (kafka.server.KafkaServ
er)
[2018-12-23 23:55:01,342] INFO [ReplicaFetcherManager on broker 0] Removed fetch
er for partitions TestTopic-0 (kafka.server.ReplicaFetcherManager)
[2018-12-23 23:55:01,450] INFO Completed load of log TestTopic-0 with 1 log segm
ents and log end offset 0 in 76 ms (kafka.log.Log)
[2018-12-23 23:55:01,456] INFO Created log for partition [TestTopic,0] in /tmp/k
afka-logs with properties {compression.type -> producer, message.format.version
-> 0.10.1-IV2, file.delete.delay.ms -> 60000, max.message.bytes -> 1000012, min.
compaction.lag.ms -> 0, message.timestamp.type -> CreateTime, min.insync.replica
s -> 1, segment.jitter.ms -> 0, preallocate -> false, min.cleanable.dirty.ratio
-> 0.5, index.interval.bytes -> 4096, unclean.leader.election.enable -> true, re
tention.bytes -> -1, delete.retention.ms -> 86400000, cleanup.policy -> [delete]
, flush.ms -> 9223372036854775807, segment.ms -> 604800000, segment.bytes -> 107
3741824, retention.ms -> 604800000, message.timestamp.difference.max.ms -> 92233
72036854775807, segment.index.bytes -> 10485760, flush.messages -> 9223372036854
775807}. (kafka.log.LogManager)
[2018-12-23 23:55:01,456] INFO Partition [TestTopic,0] on broker 0: No checkpoi
nted highwatermark is found for partition [TestTopic,0] (kafka.cluster.Partition)
[2018-12-24 00:03:18,991] INFO [Group Metadata Manager on Broker 0]: Removed 0 e
xpired offsets in 0 milliseconds. (kafka.coordinator.GroupMetadataManager)
```

Then Start Broker

```
ssionid:0x167dc4d0fe90005 type:create cxid:0x2 zxid:0x2a txntype:-1 reqpath:n/a
Error Path:/consumers Error:KeeperErrorCode = NodeExists for /consumers (org.apa
che.zookeeper.server.PreRequestProcessor)
[2018-12-23 23:58:59,519] INFO Got user-level KeeperException when processing se
ssionid:0x167dc4d0fe90005 type:create cxid:0x19 zxid:0x2e txntype:-1 reqpath:n/a
Error Path:/consumers/console-consumer-89512/owners/TestTopic Error:KeeperError
Code = NoNode for /consumers/console-consumer-89512/owners/TestTopic (org.apache
.zookeeper.server.PreRequestProcessor)
[2018-12-23 23:58:59,521] INFO Got user-level KeeperException when processing se
ssionid:0x167dc4d0fe90005 type:create cxid:0x1a zxid:0x2f txntype:-1 reqpath:n/a
Error Path:/consumers/console-consumer-89512/owners Error:KeeperErrorCode = NoN
ode for /consumers/console-consumer-89512/owners (org.apache.zookeeper.server.Pr
epRequestProcessor)
[2018-12-23 23:59:58,661] INFO Got user-level KeeperException when processing se
ssionid:0x167dc4d0fe90005 type:setData cxid:0x24 zxid:0x33 txntype:-1 reqpath:n/
a Error Path:/consumers/console-consumer-89512/offsets/TestTopic/0 Error:KeeperE
rrorCode = NoNode for /consumers/console-consumer-89512/offsets/TestTopic/0 (org
.apache.zookeeper.server.PreRequestProcessor)
[2018-12-23 23:59:58,663] INFO Got user-level KeeperException when processing se
ssionid:0x167dc4d0fe90005 type:create cxid:0x25 zxid:0x34 txntype:-1 reqpath:n/a
Error Path:/consumers/console-consumer-89512/offsets Error:KeeperErrorCode = No
Node for /consumers/console-consumer-89512/offsets (org.apache.zookeeper.server.
PreRequestProcessor)
```

Now ready to do assignment starting on next page.

Task 1:

Create a kafka topic named KeyLessTopic.

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-topics.sh --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1
Created topic "KeyLessTopic".
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost kafka_2.12-0.10.1.1]$
```

Inside KeyLessTopic insert following data:

```
{"name":"John", "exp":16}
{"name":"Finn", "exp":20}
{"name":"Cylin", "exp":18}
{"name":"Mark", "exp":2}
{"name":"Akshay", "exp":14}
```

Create Producer and insert data

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-topics.sh --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1
Created topic "KeyLessTopic".
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyLessTopic
{"name":"John", "exp":16}
{"name":"Finn", "exp":20}
{"name":"Cylin", "exp":18}
{"name":"Mark", "exp":2}
{"name":"Akshay", "exp":14}
```

Task 2:

Create a console consumer that reads KeyLessTopic from beginning

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-console-consumer.sh --topic KeyLessTopic --from-beginning --zookeeper localhost:2181 --property print.key=true
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap.servers] instead of [zookeeper].
null    {"name":"John", "exp":16}
null    {"name":"Finn", "exp":20}
null    {"name":"Cylin", "exp":18}
null    {"name":"Mark", "exp":2}
null    {"name":"Akshay", "exp":14}
null
```

Task 3:

Create a kafka topic named KeyedTopic. Inside KeyedTopic insert following data:

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-topics.sh --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1
Created topic "KeyedTopic".
[acadgild@localhost kafka_2.12-0.10.1.1]$
```

The part before comma(,) should be treated as key and after comma(,) should be treated as value

```
{"name":"John"},{"exp":16}
{"name":"Finn"},{"exp":20}
{"name":"Cylin"},{"exp":18}
{"name":"Mark"},{"exp":2}
{"name":"Akshay"},{"exp":14}
```

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key.separator="
{"name":"John"},{"exp":16}
{"name":"Finn"},{"exp":20}
{"name":"Cylin"},{"exp":18}
{"name":"Mark"},{"exp":2}
{"name":"Akshay"},{"exp":14}
```

Task 4:

Create a console consumer that reads KeyedTopic from beginning

The key and value should be separated by '-'

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ bin/kafka-console-consumer.sh --topic KeyedTopic --from-beginning --zookeeper localhost:2181 --property print.key=true --property "key.separator=-"
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-server] instead of [zookeeper].
null---property "parse.key="true" \
null---property "key.separator=",
{"name":"John"}-{"exp":16}
{"name":"Finn"}-{"exp":20}
{"name":"Cylin"}-{"exp":18}
{"name":"Mark"}-{"exp":2}
{"name":"Akshay"}-{"exp":14}
```