

Topic Deletion

Topic deletion is controlled by `delete.topic.enable` Kafka property that turns it on when `true`

Start a Kafka broker with broker ID `100`

```
./bin/kafka-server-start.sh config/server.properties \  
  --override delete.topic.enable=true \  
  --override broker.id=100 \  
  --override log.dirs=/tmp/kafka-logs-100 \  
  --override port=9192
```

```
...  
[2019-03-04 19:43:37,392] INFO Kafka version : 2.0.1  
(org.apache.kafka.common.utils.AppInfoParser)  
[2019-03-04 19:43:37,393] INFO Kafka commitId : fa14705e51bd2ce5  
(org.apache.kafka.common.utils.AppInfoParser)  
[2019-03-04 19:43:37,394] INFO [KafkaServer id=100] started  
(kafka.server.KafkaServer)
```

Create `remove-me` topic

```
./bin/kafka-topics.sh --zookeeper localhost:2181 \  
  --create \  
  --topic remove-me \  
  --partitions 1 \  
  --replication-factor 1
```

```
Created topic "remove-me".
```

List available topics

```
./bin/kafka-topics.sh --zookeeper localhost:2181 --list
```

```
remove-me
```

List details for `remove-me` topic

```
./bin/kafka-topics.sh --zookeeper localhost:2181 --describe --topic  
remove-me
```

```
Topic:remove-me PartitionCount:1      ReplicationFactor:1      Configs:  
      Topic: remove-me      Partition: 0      Leader: 100      Replicas:  
100      Isr: 100
```

Note that the broker **100** is the leader for **remove-me** topic

Stop the broker ID **100**

```
...  
[2019-03-04 19:46:08,465] INFO [SocketServer brokerId=100] Shutting down  
socket server (kafka.network.SocketServer)  
[2019-03-04 19:46:08,556] INFO [SocketServer brokerId=100] Shutdown  
completed (kafka.network.SocketServer)  
[2019-03-04 19:46:08,586] INFO [KafkaServer id=100] shut down completed  
(kafka.server.KafkaServer)
```

Start another with broker ID **200**

```
./bin/kafka-server-start.sh config/server.properties \  
--override delete.topic.enable=true \  
--override broker.id=200 \  
--override log.dirs=/tmp/kafka-logs-200 \  
--override port=9292
```

```
...  
[2019-03-04 19:46:41,531] INFO Kafka version : 2.0.1  
(org.apache.kafka.common.utils.AppInfoParser)  
[2019-03-04 19:46:41,531] INFO Kafka commitId : fa14705e51bd2ce5  
(org.apache.kafka.common.utils.AppInfoParser)  
[2019-03-04 19:46:41,532] INFO [KafkaServer id=200] started  
(kafka.server.KafkaServer)
```

Delete **remove-me** topic

```
./bin/kafka-topics.sh --zookeeper localhost:2181 --delete --topic remove-  
me
```

Topic remove-me is marked for deletion.
Note: This will have no impact if delete.topic.enable is not set to true.

List the topics

```
./bin/kafka-topics.sh --zookeeper localhost:2181 --list
```

```
remove-me - marked for deletion
```

As you may have noticed, `kafka-topics.sh --delete` will only delete a topic if the topic's leader broker is available (and can acknowledge the removal). Since the broker ID `100` is down and currently unavailable the topic deletion has only been recorded in Zookeeper.

```
./bin/zookeeper-shell.sh :2181
```

```
Connecting to :2181
Welcome to ZooKeeper!
JLine support is disabled

WATCHER::

WatchedEvent state:SyncConnected type:None path:null
```

```
ls /admin/delete_topics
```

```
[remove-me]
```

As long as the leader broker ID `100` is not available, the topic to be deleted remains marked for deletion.

Start the broker `100`

```
./bin/kafka-server-start.sh config/server.properties \
  --override delete.topic.enable=true \
  --override broker.id=100 \
  --override log.dirs=/tmp/kafka-logs-100 \
  --override port=9192
```

With logging at **DEBUG** level, you should see the following messages in the logs:

```
[2019-03-04 19:49:35,618] INFO Kafka version : 2.0.1
(org.apache.kafka.common.utils.AppInfoParser)
[2019-03-04 19:49:35,619] INFO Kafka commitId : fa14705e51bd2ce5
(org.apache.kafka.common.utils.AppInfoParser)
[2019-03-04 19:49:35,645] INFO [KafkaServer id=100] started
(kafka.server.KafkaServer)
[2019-03-04 19:49:35,687] INFO [GroupCoordinator 100]: Removed 0 offsets
associated with deleted partitions: remove-me-0.
(kafka.coordinator.group.GroupCoordinator)
[2019-03-04 19:49:35,750] INFO Replica loaded for partition remove-me-0
with initial high watermark 0 (kafka.cluster.Replica)
[2019-03-04 19:49:35,751] INFO [ReplicaFetcherManager on broker 100]
Removed fetcher for partitions (kafka.server.ReplicaFetcherManager)
[2019-03-04 19:49:35,891] INFO [ReplicaFetcherManager on broker 100] Added
fetcher for partitions List() (kafka.server.ReplicaFetcherManager)
[2019-03-04 19:49:36,060] INFO [ReplicaAlterLogDirsManager on broker 100]
Added fetcher for partitions List()
(kafka.server.ReplicaAlterLogDirsManager)
[2019-03-04 19:49:36,253] INFO [GroupCoordinator 100]: Removed 0 offsets
associated with deleted partitions: remove-me-0.
(kafka.coordinator.group.GroupCoordinator)
[2019-03-04 19:49:36,261] INFO [GroupCoordinator 100]: Removed 0 offsets
associated with deleted partitions: remove-me-0.
(kafka.coordinator.group.GroupCoordinator)
[2019-03-04 19:49:36,269] INFO [ReplicaFetcherManager on broker 100]
Removed fetcher for partitions (kafka.server.ReplicaFetcherManager)
[2019-03-04 19:49:36,310] INFO [ReplicaAlterLogDirsManager on broker 100]
Removed fetcher for partitions (kafka.server.ReplicaAlterLogDirsManager)
[2019-03-04 19:49:36,320] INFO [ReplicaFetcherManager on broker 100]
Removed fetcher for partitions remove-me-0
(kafka.server.ReplicaFetcherManager)
[2019-03-04 19:49:36,320] INFO [ReplicaAlterLogDirsManager on broker 100]
Removed fetcher for partitions remove-me-0
(kafka.server.ReplicaAlterLogDirsManager)
[2019-03-04 19:49:36,356] INFO [ReplicaFetcherManager on broker 100]
Removed fetcher for partitions (kafka.server.ReplicaFetcherManager)
[2019-03-04 19:49:36,356] INFO [ReplicaAlterLogDirsManager on broker 100]
Removed fetcher for partitions (kafka.server.ReplicaAlterLogDirsManager)
[2019-03-04 19:49:36,360] INFO [ReplicaFetcherManager on broker 100]
Removed fetcher for partitions remove-me-0
(kafka.server.ReplicaFetcherManager)
[2019-03-04 19:49:36,360] INFO [ReplicaAlterLogDirsManager on broker 100]
Removed fetcher for partitions remove-me-0
(kafka.server.ReplicaAlterLogDirsManager)
[2019-03-04 19:49:36,458] INFO Log for partition remove-me-0 is renamed to
/tmp/kafka-logs-100/remove-me-0.837b3aa03d4d47398be1c472f151cf9b-delete
and is scheduled for deletion (kafka.log.LogManager)
```

The topic is now deleted. Use Zookeeper Shell to confirm it.

```
./bin/zookeeper-shell.sh :2181 ls /admin/delete_topics
```

```
Connecting to :2181
```

```
WATCHER::
```

```
WatchedEvent state:SyncConnected type:None path:null  
[]
```