

KIP-593: Enable `--if-exists` and `--if-not-exists` for AdminClient in TopicCommand

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Status

Current state: Superseded by KIP-604

Discussion thread: [here](#)

JIRA: [here](#)

Please keep the discussion on the mailing list rather than commenting on the wiki (wiki discussions get unwieldy fast).

Motivation

In `kafka-topic.sh`, we expect to use `--if-exists` to ensure that the topic to create or change exists. Similarly, we expect to use `--if-not-exists` to ensure that the topic to create or change does not exist. Currently, only `ZooKeeperTopicService` supports these two options. As a result, specifying `--bootstrap-server` option with either one of them will trigger an error.

We want to introduce `--if-exists` and `--if-not-exists` options to `AdminClientTopicService`.

Public Interfaces

`kafka-topic.sh`:

The topic command will accept either `--if-exist` or `--if-not-exist` option together with `--bootstrap-server` option.

Proposed Changes

Implement the logic in `AdminClientTopicService` like what `ZooKeeperTopicService` has.

Add support to ensure the topic exists in:

- `alterTopic()`
- `describeTopic()`
- `deleteTopic()`

Add support to ensure the topic does not exist in:

- `createTopic()`

Rejected Alternatives