

# KIP-565: Using AclCommand,avoid call the global method loadcache in SimpleAclAuthorizer

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## Status

**Current state:** Accepted

**Discussion thread:** <https://lists.apache.org/thread.html/r636f607c8937bc557b476346faa25f10a26cf5bee7fd934a447e1708%40%3Cdev.kafka.apache.org%3E>

JIRA:

 Unable to render Jira issues macro, execution error.

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

## Motivation

In the class Named AclCommand,configure SimpleAclAuthorizer,but no need call loadCache.  
now we have 20,000 topics in kafka cluster,everytime I run AclCommand,all these topics's Alcs need to be authed, it will be very slow.  
The purpose of this optimization iswe can choose to not load the acl of all topics into memory, mainly for adding and deleting permissions  
we can choose improve the running time from minutes to less than one second

## Public Interfaces

*A public interface is any change to the following:*

- just add the optional switch in [AclCommand.scala](#)

## Proposed Changes

PR Available here: <https://github.com/apache/kafka/pull/7706>

```

37 + def notLoadCacheTest(): Unit = {
38 +   AclCommand.main(Array[String]("--authorizer-properties", "zookeeper.connect=" +
zkConnect, "--force", "--add", "--allow-principal", testUsers1, "--operation", "read",
"--topic", topic, "--load-acl-cache", notLoadCache))
39 +   AclCommand.main(Array[String]("--authorizer-properties", "zookeeper.connect=" +
zkConnect, "--force", "--remove", "--allow-principal", testUsers1, "--operation",
"read", "--topic", topic, "--load-acl-cache", notLoadCache))
40 + }
41 +
42 + @Test
43 + def loadCacheTest(): Unit = {
44 +   AclCommand.main(Array[String]("--authorizer-properties", "zookeeper.connect=" +
zkConnect, "--force", "--add", "--allow-principal", testUsers2, "--operation", "read",
"--topic", topic))
45 +   AclCommand.main(Array[String]("--authorizer-properties", "zookeeper.connect=" +
zkConnect, "--force", "--remove", "--allow-principal", testUsers2, "--operation",
"read", "--topic", topic))
46 + }

```

mainly for adding and deleting permissions, we can choose to not load the acl of all topics into memory,

then we can add two args "--load-acl-cache" "false" in `AclCommand.main`; else you don't add these args, it will load the acl cache defaultly.

we can choose improve the running time from minutes to less than one second

## Compatibility, Deprecation, and Migration Plan

- No impact or migration plan required as this proposal is only adding new methods and not changing any current behaviour.

## Rejected Alternatives

As mentioned in the Proposed changes, this is inefficient.