Kafka Role Binding Commands

This document provides a comprehensive list of role binding commands in Kafka for assigning roles to users, topics, consumer groups, and other resources. These commands are essential for managing permissions and

access control in a Kafka environment.

Role Binding Commands

SystemAdmin Access for User

Provide SystemAdmin access to a user for full control like a superuser.

Command:

```
confluent iam rbac role-binding create --principal User:<user_name> --role SystemAdmin --kafka-cluster <kafka-cluster-id>
```

Example:

```
confluent iam rbac role-binding create --principal User:localhost --role SystemAdmin --kafka-cluster lfsjpqubT2aWb645x4iimw
```

List Role-Binding for a User

List the role bindings for a specified user in the Kafka cluster.

Command:

```
confluent iam rbac role-binding list --principal User:<user_name> --kafka-cluster <kafka-cluster-id>
```

Example:

```
confluent iam rbac role-binding list --principal User:localhost --kafka-cluster lfsjpqubT2aWb645x4iimw
```

Resource Owner Role for Topic

Assign ResourceOwner role to a user, allowing topic creation and management.

Command:

confluent iam rbac role-binding create --principal User:<user_name> --role ResourceOwner --resource Topic:<topic_name> --kafka-cluster <kafka-cluster-id>

Example:

confluent iam rbac role-binding create --principal User:consumer --role ResourceOwner --resource Topic:rbac1 --kafka-cluster IfsjpqubT2aWb645x4iimw

DeveloperWrite Role for a Topic

Grant write permissions to a user on a specific topic.

Command:

confluent iam rbac role-binding create --principal User:<user_name> --role DeveloperWrite --resource Topic:<topic_name> --kafka-cluster <kafka-cluster-id>

Example:

confluent iam rbac role-binding create --principal User:consumer --role DeveloperWrite --resource Topic:rbac-test --kafka-cluster IfsjpqubT2aWb645x4iimw

DeveloperRead Role for a Topic and Group

Grant read permissions to a user on a specific topic and consumer group.

Command:

confluent iam rbac role-binding create --principal User:<user_name> --role DeveloperRead --resource Topic:<topic_name> --kafka-cluster <kafka-cluster-id>
confluent iam rbac role-binding create --principal User:<user_name> --role DeveloperRead --resource Group:<group_name> --prefix --kafka-cluster <kafka-cluster-id>

Example:

confluent iam rbac role-binding create --principal User:consumer --role DeveloperRead --resource Topic:rbac --kafka-cluster IfsjpqubT2aWb645x4iimw
confluent iam rbac role-binding create --principal User:consumer --role DeveloperRead --resource Group:console-consumer --prefix --kafka-cluster IfsjpqubT2aWb645x4iimw