Kafka Topic Creation & Usage Guidelines For Local Setup

Create a Topic:

Location: /home/rcxdev/rcx-code/rcx-devops/docker/build/kafka-docker/create-topics-ssl.sh

1.Use the following command to create a topic named as mgmplat-test-topic:

$KAFKA_HOME/bin/kafka-topics.sh --zookeeper zk:2181 \

--create --replication-factor 1 --partitions 10 \

--topic mgmplat-test-topic

2.Use the following command to provide authorization to your topic:

$KAFKA_HOME/bin/kafka-acls.sh --authorizer-properties zookeeper.connect=zk:2181 \

--add --allow-principal "User:CN=Dev,OU=RCX Kafka Client,O=Rythmos,L=Hyderabad,ST=TG,C=IN" \

--operation All --topic mgmplat-test-topic --group *

3.Use the following command to produce your topic to given Certificate:

$KAFKA_HOME/bin/kafka-acls.sh --authorizer-properties zookeeper.cotopicnnect=zk:2181 \

--add --allow-principal "User:CN=rcx-mgmplat-middleware,OU=RCX Kafka Client,O=Rythmos,L=Hyderabad,ST=TG,C=IN" \

--producer --topic mgmplat-test-topic

[CERTIFICATE: "User:CN=rcx-mgmplat-middleware,OU=RCX Kafka Client,O=Rythmos,L=Hyderabad,ST=TG,C=IN" **]**

Example:

#topic for mgmplat middleware test-topic

$KAFKA_HOME/bin/kafka-topics.sh --zookeeper zk:2181 \

--create --replication-factor 1 --partitions 10 \

--topic mgmplat-test-topic

$KAFKA_HOME/bin/kafka-acls.sh --authorizer-properties zookeeper.connect=zk:2181 \

--add --allow-principal "User:CN=Dev,OU=RCX Kafka Client,O=Rythmos,L=Hyderabad,ST=TG,C=IN" \

--operation All --topic mgmplat-test-topic --group *

$KAFKA_HOME/bin/kafka-acls.sh --authorizer-properties zookeeper.cotopicnnect=zk:2181 \

--add --allow-principal "User:CN=rcx-mgmplat-middleware,OU=RCX Kafka Client,O=Rythmos,L=Hyderabad,ST=TG,C=IN" \

--producer --topic mgmplat-test-topic

Add your topic in java-adapters.yml file:

Location: /home/rcxdev/rcx-code/rcx-devops/docker/ java-adapters.yml

1.Search for **mgmplatmiddleware**

2.In mgmplatmiddleware block you will be having :

COMPQ_TOPIC_NAME: mgmplat-comp-topic

3.Comment this: COMPQ_TOPIC_NAME: mgmplat-comp-topic

4.Add your own topic below this: COMPQ_TOPIC_NAME: mgmplat-comp-topic
Example: #COMPQ_TOPIC_NAME: mgmplat-comp-topic

COMPQ_TOPIC_NAME: mgmplat-test-topic

Go To Terminal:

1. docker images (this command will list all the images**)**

2. Remove rcx-kafka Image Id by using this command**:**

docker rmi [IMAGE ID..]

3. If you are getting this kind of error:

[Example: Error response from daemon: conflict: unable to delete 08d779f962be (must be forced) - image is being used by stopped container beca76697d7d **]**

Then first **Stop the container** after that **remove the container** then **remove rcx-kafka Image Id.**

docker container ls –a (this command will list all the docker container)

docker stop container [CONTAINER ID] (to stop the container)

docker rm [CONTAINER ID] (to remove the container)

After this **remove rcx-kafka Image Id.**

4. Stop and Remove Zookeeper Container Id.

docker stop container [CONTAINER ID]

docker rm [CONTAINER ID]

5. Remove zookeeper Image Id.

docker rmi [IMAGE ID..]

6. Build Kafka.

rcxcompose build kafka

7. Up Kafka

rcxcompose up kafka

8. Up mgmplatmidleware

rcxcompose up mgmplatmiddleware

Go to Offset Explorer:

Go to topic section- search for your topic name.

Now set Key-Value pair as String in Properties and update it.

Go to Data, select Key-Value pair in JSON format.

Go to Postman:

Send request from postman.

Now, Check for the request/response message in Offset Explorer.