Запуск Kafka c KRaft

1. Редактировать файл /opt/kafka/config/kraft/server.properties

```
process.roles=broker,controller
node.id=1
controller.quorum.voters=1@localhost:9093
listeners=PLAINTEXT://:9092,CONTROLLER://:9093
inter.broker.listener.name=PLAINTEXT
advertised.listeners=PLAINTEXT://localhost:9092
controller.listener.names=CONTROLLER
listener.security.protocol.map=CONTROLLER:PLAINTEXT,PLAINTEXT:PLAINTEX
T, SSL:SSL, SASL PLAINTEXT:SASL PLAINTEXT, SASL SSL:SASL SSL
num.network.threads=3
num.io.threads=8
socket.send.buffer.bytes=102400
socket.receive.buffer.bytes=102400
socket.request.max.bytes=104857600
log.dirs=/opt/kafka/data/kraft
num.partitions=1
num.recovery.threads.per.data.dir=1
offsets.topic.replication.factor=1
transaction.state.log.replication.factor=1
transaction.state.log.min.isr=1
log.retention.hours=168
log.segment.bytes=1073741824
log.retention.check.interval.ms=300000
```

2. Создать cluster ID

export KAFKA CLUSTER ID="\$(bin/kafka-storage.sh random-uuid)"

[alex@MacBook-Pro-Alexander kafka % export KAFKA_CLUSTER_ID="\$(bin/kafka-storage.sh random-uuid)" [alex@MacBook-Pro-Alexander kafka % echo \$KAFKA_CLUSTER_ID geuIXoERQjCVx7QTsIshfw

3. Форматировать каталог данных

bin/kafka-storage.sh format -t \$KAFKA_CLUSTER_ID -c
config/kraft/server.properties

[alex@MacBook-Pro-Alexander kafka % bin/kafka-storage.sh format -t \$KAFKA_CLUSTER_ID -c config/kraft/server.properties metaPropertiesEnsemble=MetaPropertiesEnsemble(metadataLogDir=Optional.empty, dirs={/opt/kafka/data/kraft: EMPTY}) Formatting /opt/kafka/data/kraft with metadata.version 3.7-IV4.
[alex@MacBook-Pro-Alexander kafka % ls /opt/kafka/data/kraft bootstrap.checkpoint meta.properties

4. Запустить брокер

bin/kafka-server-start.sh -daemon config/kraft/server.properties

5. Выполнить проверку

bin/kafka-cluster.sh cluster-id --bootstrap-server localhost:9092

|alex@MacBook-Pro-Alexander kafka % bin/kafka-server-start.sh -daemon config/kraft/server.properties |alex@MacBook-Pro-Alexander kafka % bin/kafka-cluster.sh cluster-id --bootstrap-server localhost:9092 |Cluster ID: geuIXoERQjCVx7QTsIshfw |alex@MacBook-Pro-Alexander kafka % echo \$KAFKA_CLUSTER_ID |geuIXoERQjCVx7QTsIshfw

Настройка аутентификации SASL/PLAIN

6. Записать настройки в файл server-sasl.properties

```
process.roles=broker,controller
node.id=1
controller.quorum.voters=1@localhost:9093
listeners=SASL PLAINTEXT://:9092,CONTROLLER://:9093
advertised.listeners=SASL PLAINTEXT://localhost:9092
listener.security.protocol.map=CONTROLLER:SASL PLAINTEXT,SASL PLAINTEX
T:SASL PLAINTEXT
inter.broker.listener.name=SASL PLAINTEXT
controller.listener.names=CONTROLLER
sasl.enabled.mechanisms=PLAIN
sasl.mechanism.controller.protocol=PLAIN
sasl.mechanism.inter.broker.protocol=PLAIN
num.network.threads=3
num.io.threads=8
socket.send.buffer.bytes=102400
socket.receive.buffer.bytes=102400
socket.request.max.bytes=104857600
log.dirs=/opt/kafka/data/kraft
num.partitions=1
num.recovery.threads.per.data.dir=1
offsets.topic.replication.factor=1
transaction.state.log.replication.factor=1
transaction.state.log.min.isr=1
log.retention.hours=168
log.segment.bytes=1073741824
log.retention.check.interval.ms=300000
```

7. Создать файл kafka_server_jaas.conf и записать в него следующие настройки

8. Запустить kafka, указав созданные файлы с настройками аутентификации на стороне брокера

KAFKA_OPTS="-Djava.security.auth.login.config=/opt/kafka/config/kraft/
kafka_server_jaas.conf" /opt/kafka/bin/kafka-server-start.sh -daemon
/opt/kafka/config/kraft/server-sasl.properties

9. Создать файл client-sasl.properties с настройками аутентификации на стороне клиента

```
security.protocol=SASL_PLAINTEXT
sasl.mechanism=PLAIN
sasl.jaas.config= \
    org.apache.kafka.common.security.plain.PlainLoginModule \
    required username="client" password="client-secret";
```

10. Проверка с аутентификацией

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-sasl.properties
```

Результат - пустой список, потому что топики еще не созданы

11. Проверка без аутентификации

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092 Зависает и не выдает ошибку
```

Добавление пользователей

12. Добавить пользователей в файл kafka_server_jaas.conf

```
KafkaServer {
       org.apache.kafka.common.security.plain.PlainLoginModule required
       serviceName="kafka"
       username="kafkabroker"
       password="kafkabroker-secret"
       user kafkabroker="kafkabroker-secret"
       user kafka-broker-metric-reporter= \
                   "kafkabroker-metric-reporter-secret"
       user client="client-secret"
       user_user1="pass1"
       user user2="pass2"
       user user3="pass3";
};
Client {
       org.apache.kafka.common.security.plain.PlainLoginModule required
       username="kafkabroker"
        password="kafkabroker-secret";
};
```

13. Перезапустить kafka

```
bin/kafka-server-stop.sh
```

KAFKA_OPTS="-Djava.security.auth.login.config=/opt/kafka/config/kraft/
kafka_server_jaas.conf" /opt/kafka/bin/kafka-server-start.sh -daemon
/opt/kafka/config/kraft/server-sasl.properties

14. Создать файлы для подключения этих пользователей config/kraft/client-user1-sasl.properties

```
security.protocol=SASL_PLAINTEXT
sasl.mechanism=PLAIN
sasl.jaas.config= \
    org.apache.kafka.common.security.plain.PlainLoginModule \
    required username="user1" password="pass1";
```

config/kraft/client-user2-sasl.properties

```
security.protocol=SASL_PLAINTEXT
sasl.mechanism=PLAIN
sasl.jaas.config= \
    org.apache.kafka.common.security.plain.PlainLoginModule \
    required username="user2" password="pass2";
```

config/kraft/client-user3-sasl.properties

```
security.protocol=SASL_PLAINTEXT
sasl.mechanism=PLAIN
sasl.jaas.config= \
    org.apache.kafka.common.security.plain.PlainLoginModule \
    required username="user3" password="pass3";
```

15. Проверить подключение

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kraft/client-user1-sasl.properties

bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kraft/client-user2-sasl.properties

bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kraft/client-user3-sasl.properties
```

В ответе пустые списки, потому что топики не созданы

Настройка авторизации

16. Остановить kafka

bin/kafka-server-stop.sh

17. Добавить в server-sasl.properties

18. Запустить kafka

KAFKA_OPTS="-Djava.security.auth.login.config=/opt/kafka/config/kraft/
kafka_server_jaas.conf" /opt/kafka/bin/kafka-server-start.sh -daemon
/opt/kafka/config/kraft/server-sasl.properties

19. Создать топик test и запросить список от имени суперпользователя и других пользователей

```
bin/kafka-topics.sh --create --bootstrap-server localhost:9092
--partitions 2 --topic test --command-config
config/kraft/client-sasl.properties
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
```

--command-config config/kraft/client-sasl.properties

```
alex@MacBook-Pro-Alexander kafka % KAFKA_OPTS="-Djava.security.auth.login.config=/opt/kafka/config/kraft/kafka_se
rver_jaas.conf" /opt/kafka/bin/kafka-server-start.sh -daemon /opt/kafka/config/kraft/server-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --partitions 2
 -topic test --command-config config/kraft/client-sasl.properties
Created topic test.
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config
config/kraft/client-sasl.properties
alex@MacBook-Pro-Alexander kafka %
alex@MacBook-Pro-Alexander kafka %
alex@MacBook-Pro-Alexander kafka %
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config
config/kraft/client-user1-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config
config/kraft/client-user2-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config
config/kraft/client-user3-sasl.properties
alex@MacBook-Pro-Alexander kafka % 📗
```

20. Указать права доступа и прочитать их

```
bin/kafka-acls.sh --bootstrap-server localhost:9092 --add
--allow-principal User:user1 --operation Write --topic test
--command-config config/kraft/client-sasl.properties

bin/kafka-acls.sh --bootstrap-server localhost:9092 --add
--allow-principal User:user2 --operation Read --topic test
--command-config config/kraft/client-sasl.properties

bin/kafka-acls.sh --bootstrap-server localhost:9092 --list
--command-config config/kraft/client-sasl.properties
```

21. Выполнить операции от имени пользователя user1

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-user1-sasl.properties
bin/kafka-console-producer.sh --bootstrap-server localhost:9092
--topic test --producer.config
config/kraft/client-user1-sasl.properties
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092
--topic test --consumer.config
config/kraft/client-user1-sasl.properties
```

```
alex@MacBook—Pro-Alexander kafka % bin/kafka-topics.sh ——list ——bootstrap—server localhost:9092 ——command—config config/kr
aft/client-user1-sasl.properties
test
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test --producer
.config config/kraft/client-user1-sasl.properties
>message1
>message2
>message3
>message4
>me<u>s</u>sage5
>^C%
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer
.config config/kraft/client-user1-sasl.properties
[2024-04-02 14:53:05,552] ERROR Error processing message, terminating consumer process: (kafka.tools.ConsoleConsumer$)
org.apache.kafka.common.errors.GroupAuthorizationException: Not authorized to access group: console-consumer-82394
Processed a total of 0 messages
```

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-user2-sasl.properties
bin/kafka-console-producer.sh --bootstrap-server localhost:9092
--topic test --producer.config
config/kraft/client-user2-sasl.properties
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092
--topic test --consumer.config
config/kraft/client-user2-sasl.properties --from-beginning
```

```
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kr
aft/client-user2-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test --producer
.config config/kraft/client-user2-sasl.properties
[2024-04-02 15:43:07,559] ERROR [Producer clientId=console-producer] Aborting producer batches due to fatal error (org.apa
che.kafka.clients.producer.internals.Sender)
org.apache.kafka.common.errors.ClusterAuthorizationException: Cluster authorization failed.
[2024-04-02 15:43:07,560] ERROR Error when sending message to topic test with key: null, value: 3 bytes with error: (org.a
pache.kafka.clients.producer.internals.ErrorLoggingCallback)
org.apache.kafka.common.errors.ClusterAuthorizationException: Cluster authorization failed. org.apache.kafka.common.KafkaException: Cannot execute transactional method because we are in an error state
          at org.apache.kafka.clients.producer.internals.TransactionManager.maybeFailWithError(TransactionManager.java:1041)
         at org.apache.kafka.clients.producer.internals.TransactionManager.maybeAddPartition(TransactionManager.java:385)
          at org.apache.kafka.clients.producer.KafkaProducer.doSend(KafkaProducer.java:1063)
         at org.apache.kafka.clients.producer.KafkaProducer.send(KafkaProducer.java:964) at kafka.tools.ConsoleProducer$.send(ConsoleProducer.scala:117)
          at kafka.tools.ConsoleProducer$.loopReader(ConsoleProducer.scala:90)
         at kafka.tools.ConsoleProducer$.main(ConsoleProducer.scala:99)
          at kafka.tools.ConsoleProducer.main(ConsoleProducer.scala)
Caused by: org.apache.kafka.common.errors.ClusterAuthorizationException: Cluster authorization failed.
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer
.config config/kraft/client-user2-sasl.properties -from-beginning
[2024-04-02 15:43:16,934] ERROR Error processing message, terminating consumer process: (kafka.tools.ConsoleConsumer$) org.apache.kafka.common.errors.GroupAuthorizationException: Not authorized to access group: console-consumer-77830
Processed a total of 0 messages
```

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-user3-sasl.properties
bin/kafka-console-producer.sh --bootstrap-server localhost:9092
--topic test --producer.config
config/kraft/client-user3-sasl.properties
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092
--topic test --consumer.config
config/kraft/client-user3-sasl.properties --from-beginning
```

```
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kr
aft/client-user3-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test --producer
.config config/kraft/client-user3-sasl.properties
[2024-04-02 15:44:54,688] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 1724
4 : {test=TOPIC_AUTHORIZATION_FAILED} (org.apache.kafka.clients.NetworkClient)
[2024-04-02 15:44:54,690] ERROR [Producer clientId=console-producer] Topic authorization failed for topics [test] (org.apa
che.kafka.clients.Metadata)
[2024-04-02 15:44:54,691] ERROR Error when sending message to topic test with key: null, value: 3 bytes with error: (org.a
pache.kafka.clients.producer.internals.ErrorLoggingCallback)
org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
>[2024-04-02 15:44:54,771] ERROR [Producer clientId=console-producer] Topic authorization failed for topics [test] (org.ap
ache.kafka.clients.Metadata)
[2024-04-02 15:45:00,416] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 1132
73 : {test=TOPIC_AUTHORIZATION_FAILED} (org.apache.kafka.clients.NetworkClient)
[2024-04-02 15:45:00,416] ERROR [Producer clientId=console-producer] Topic authorization failed for topics [test] (org.apa
che.kafka.clients.Metadata)
[2024-04-02 15:45:00,416] ERROR Error when sending message to topic test with key: null, value: 0 bytes with error: (org.a
pache.kafka.clients.producer.internals.ErrorLoggingCallback)
org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
[2024-04-02 15:45:01,325] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 1288
47 : {test=TOPIC_AUTHORIZATION_FAILED} (org.apache.kafka.clients.NetworkClient)
[2024-04-02 15:45:01,325] ERROR [Producer clientId=console-producer] Topic authorization failed for topics [test] (org.apa
che.kafka.clients.Metadata)
[2024-04-02 15:45:01,325] ERROR Error when sending message to topic test with key: null, value: 0 bytes with error: (org.a
org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
alex@MacBook-Pro-Alexander kafka %
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer .config config/kraft/client-user3-sasl.properties -from-beginning
[2024-04-02 15:45:13,850] WARN [Consumer clientId=console-consumer, groupId=console-consumer-72466] Error while fetching metadata with correlation id 2 : {test=TOPIC_AUTHORIZATION_FAILED} (org.apache.kafka.clients.NetworkClient)
[2024-04-02 15:45:13,851] ERROR [Consumer clientId=console-consumer, groupId=console-consumer-72466] Topic authorization
ailed for topics [test] (org.apache.kafka.clients.Metadata)
[2024-04-02 15:45:13,851] ERROR Error processing message, terminating consumer process: (kafka.tools.ConsoleConsumer$)
org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
Processed a total of 0 messages
```

Дать пользователям права на группу потребителей и выполнить операции от имени пользователей

24. Дать пользователям доступ ко всем группам

```
bin/kafka-acls.sh --bootstrap-server localhost:9092 --add --allow-principal
User:user1 --operation Read --group 'console-consumer-' --command-config
config/kraft/client-sasl.properties --resource-pattern-type prefixed
bin/kafka-acls.sh --bootstrap-server localhost:9092 --add --allow-principal
User:user2 --operation Read --group 'console-consumer-' --command-config
config/kraft/client-sasl.properties --resource-pattern-type prefixed
bin/kafka-acls.sh --bootstrap-server localhost:9092 --add --allow-principal
User:user3 --operation Read --group 'console-consumer-' --command-config
config/kraft/client-sasl.properties --resource-pattern-type prefixed
[alex@MacBook-Pro-Alexander kafka % bin/kafka-acls.sh --bootstrap-server localhost:9092 --add --allow-principal User:user3
  -operation Read --group 'console-consumer-' --command-config config/kraft/client-sasl.properties --resource-pattern-type
 Adding ACLs for resource `ResourcePattern(resourceType=GROUP, name=console-consumer-, patternType=PREFIXED)`:
        (principal=User:user3, host=*, operation=READ, permissionType=ALLOW)
Current ACLs for resource `ResourcePattern(resourceType=GROUP, name=console-consumer-, patternType=PREFIXED)`:
        (principal=User:user1, host=*, operation=READ, permissionType=ALLOW)
(principal=User:user2, host=*, operation=READ, permissionType=ALLOW)
         (principal=User:user3, host=*, operation=READ, permissionType=ALLOW)
[alex@MacBook-Pro-Alexander kafka % bin/kafka-acls.sh --bootstrap-server localhost:9092 --list --command-config config/kraf
 t/client-sasl.properties
Current ACLs for resource `ResourcePattern(resourceType=GROUP, name=console-consumer-, patternType=PREFIXED)`:
        (principal=User:user1, host=*, operation=READ, permissionType=ALLOW)
(principal=User:user2, host=*, operation=READ, permissionType=ALLOW)
         (principal=User:user3, host=*, operation=READ, permissionType=ALLOW)
Current ACLs for resource `ResourcePattern(resourceType=TOPIC, name=test, patternType=LITERAL)`:
        (principal=User:user1, host=*, operation=READ, permissionType=ALLOW)
(principal=User:user1, host=*, operation=WRITE, permissionType=ALLOW)
{\tt Current\ ACLs\ for\ resource\ `Resource\ Pattern(resource\ Type=GROUP,\ name=test\_group,\ pattern\ Type=LITERAL)`:}
        (principal=User:user2, host=*, operation=READ, permissionType=ALLOW)
(principal=User:user1, host=*, operation=READ, permissionType=ALLOW)
```

25. Выполнить операции от имени пользователя user1

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-user1-sasl.properties
bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test
--producer.config config/kraft/client-user1-sasl.properties
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test
--consumer.config config/kraft/client-user1-sasl.properties --from-beginning
```

```
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kr aft/client-user1-sasl.properties
test
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test --producer
.config config/kraft/client-user1-sasl.properties
>>message9
>>
^C
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer
.config config/kraft/client-user1-sasl.properties --from-beginning
[2024-04-02 16:07:33,416] WARN [Consumer clientId=console-consumer, groupId=console-consumer-27336] Not authorized to read
from partition test-1. (org.apache.kafka.clients.consumer.internals.FetchCollector)
[2024-04-02 16:07:33,418] ERROR Error processing message, terminating consumer process: (kafka.tools.ConsoleConsumer$)
org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
Processed a total of 0 messages
```

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-user2-sasl.properties
```

```
bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test
--producer.config config/kraft/client-user2-sasl.properties
```

bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer.config config/kraft/client-user2-sasl.properties --from-beginning

```
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kr
aft/client-user2-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test --producer
.config config/kraft/client-user2-sasl.properties
[2024-04-02 16:10:50,798] ERROR [Producer clientId=console-producer] Aborting producer batches due to fatal error (org.apa
che.kafka.clients.producer.internals.Sender)
org.apache.kafka.common.errors.ClusterAuthorizationException: Cluster authorization failed.
[2024-04-02 16:10:50,799] ERROR Error when sending message to topic test with key: null, value: 3 bytes with error: (org.a
pache.kafka.clients.producer.internals.ErrorLoggingCallback)
org.apache.kafka.common.errors.ClusterAuthorizationException: Cluster authorization failed.
org.apache.kafka.common.KafkaException: Cannot execute transactional method because we are in an error state
         at\ org. apache. kafka. clients. producer. internals. Transaction \texttt{Manager.may} be Fail \texttt{WithError} (Transaction \texttt{Manager.java:1041})
         at org.apache.kafka.clients.producer.internals.TransactionManager.maybeAddPartition(TransactionManager.java:385)
         at org. apache. kafka. clients. producer. Kafka Producer. do Send (Kafka Producer. java: 1063)\\
         at org.apache.kafka.clients.producer.KafkaProducer.send(KafkaProducer.java:964)
         at kafka.tools.ConsoleProducer$.send(ConsoleProducer.scala:117)
         \verb|at kafka.tools.ConsoleProducer$.loopReader(ConsoleProducer.scala:90)|\\
         at kafka.tools.ConsoleProducer$.main(ConsoleProducer.scala:99)
         at kafka.tools.ConsoleProducer.main(ConsoleProducer.scala)
Caused by: org.apache.kafka.common.errors.ClusterAuthorizationException: Cluster authorization failed.
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer
. {\tt config \ config/kraft/client-user2-sasl.properties \ --from-beginning}
message1
message2
message3
message4
message5
message6
message7
message8
message9
```

```
bin/kafka-topics.sh --list --bootstrap-server localhost:9092
--command-config config/kraft/client-user3-sasl.properties

bin/kafka-console-producer.sh --bootstrap-server localhost:9092
--topic test --producer.config
config/kraft/client-user3-sasl.properties

bin/kafka-console-consumer.sh --bootstrap-server localhost:9092
--topic test --consumer.config
config/kraft/client-user3-sasl.properties --from-beginning
alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --co
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alex@MacBook-Pro-Alexander kafka % bin/kafka-topics.sh --list --bootstrap-server localhost:9092 --command-config config/kr
aft/client-user3-sasl.properties
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-producer.sh --bootstrap-server localhost:9092 --topic test --producer
 .config config/kraft/client-user3-sasl.properties
[2024-04-02 16:11:48,762] WARN [Producer clientId=console-producer] Error while fetching metadata with correlation id 2348
6 : {test=TOPIC_AUTHORIZATION_FAILED} (org.apache.kafka.clients.NetworkClient)
[2024-04-02 16:11:48,765] ERROR [Producer clientId=console-producer] Topic authorization failed for topics [test] (org.apa
[2024-04-02 16:11:48,765] ERROR Error when sending message to topic test with key: null, value: 3 bytes with error: (org.a
pache.kafka.clients.producer.internals.ErrorLoggingCallback)
org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
alex@MacBook-Pro-Alexander kafka %
alex@MacBook-Pro-Alexander kafka % bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test --consumer .config config/kraft/client-user3-sasl.properties --from-beginning
[2024-04-02 16:12:01,281] WARN [Consumer clientId=console-consumer, groupId=console-consumer-26179] Error while fetching metadata with correlation id 2: {test=TOPIC_AUTHORIZATION_FAILED} (org.apache.kafka.clients.NetworkClient) [2024-04-02 16:12:01,281] ERROR [Consumer clientId=console-consumer, groupId=console-consumer-26179] Topic authorization f
 ailed for topics [test] (org.apache.kafka.clients.Metadata)
[2024-04-02 16:12:01,282] ERROR Error processing message, terminating consumer process: (kafka.tools.ConsoleConsumer$) org.apache.kafka.common.errors.TopicAuthorizationException: Not authorized to access topics: [test]
Processed a total of 0 messages
alex@MacBook-Pro-Alexander kafka %
```