# Scenario 11

## Problem Statement

The client is unable to produce/consume from the topic inventory_changes using the command -

→kafka-console-producer --bootstrap-server kafka1:19092 --producer.config /opt/client/client.properties --topic inventory_changes

→kafka-console-consumer --bootstrap-server kafka1:19092 --consumer.config /opt/client/client.properties --from-beginning --topic inventory_changes

The client is using SASL/PLAIN over PLAINTEXT with the user bob

### 1. Listing the topics on kafka 1 broker using kafka1:19092

→kafka-topics --list --bootstrap-server kafka1:19092 --command-config /opt/client/client.properties

```
[root@kfkclient appuser]# kafka-topics --list --bootstrap-server kafka1:19092 --command-config /opt/client/client.properties
Error while executing topic command : Timed out waiting for a node assignment. Call: listTopics
[2025-01-17 10:32:25,766] ERROR org.apache.kafka.common.errors.TimeoutException: Timed out waiting for a node assignment. Call: listTopics
 (kafka.admin.TopicCommand$)
[root@kfkclient appuser]#
```

### 2. Produce to inventory_changes topic using kafka 1 broker using kafka1:19092

→kafka-console-producer --bootstrap-server kafka1:19092 --producer.config /opt/client/client.properties --topic inventory_changes

```
[root@kfkclient appuser]# kafka-console-producer --bootstrap-server kafka1:19092 --producer.config /opt/client/client.properties --topic inventory_changes
>[2025-01-17 10:36:00,076] WARN [Producer clientId=console-producer] Bootstrap broker kafka1:19092 (id: -1 rack: null) disconnected (org.apache.kafka.clients.NetworkClient)
[2025-01-17 10:36:19,017] WARN [Producer clientId=console-producer] Bootstrap broker kafka1:19092 (id: -1 rack: null) disconnected (org.apache.kafka.clients.NetworkClient)
[2025-01-17 10:36:54,262] WARN [Producer clientId=console-producer] Bootstrap broker kafka1:19092 (id: -1 rack: null) disconnected (org.apache.kafka.clients.NetworkClient)
```

## Root cause

There seems to be an issue with how the kafka broker 1 is connected with its client. The kfkclient is sending a request to broker 1 on port 19091 but the broker 1 is not able to receive the request and kfkclient is waiting for kafka broker 1 to be ready and waiting indefinitely because of port conflicts.

**Solution to debug the issue**

      Change the port that kafka broker 1 uses to connect to its client to resolve the port conflict issue. Change the port number from **CLIENT://:19092** to **CLIENT://:19091** to resolve the issue.

**Test the changes done by listing the topics.**

→ kafka-topics --list --bootstrap-server kafka1:19091 --command-config /opt/client/client.properties

```
[root@kfkclient appuser]# kafka-topics --list --bootstrap-server kafka1:19091 --command-config /opt/client/client.properties
__consumer_offsets
_confluent-metadata-auth
_confluent-metrics
confluent-audit-log-events
[root@kfkclient appuser]#
```

**Observation**

      Successfully able to access on port 9091

**Conclusion**

      Since the communication between the broker and client was happening through the port number 19092 which had some conflicts with other ports, changing the port number of broker 1 to listen to port 19091 will successfully solve this issue.