첫 카프카 Producer / Consumer 사용

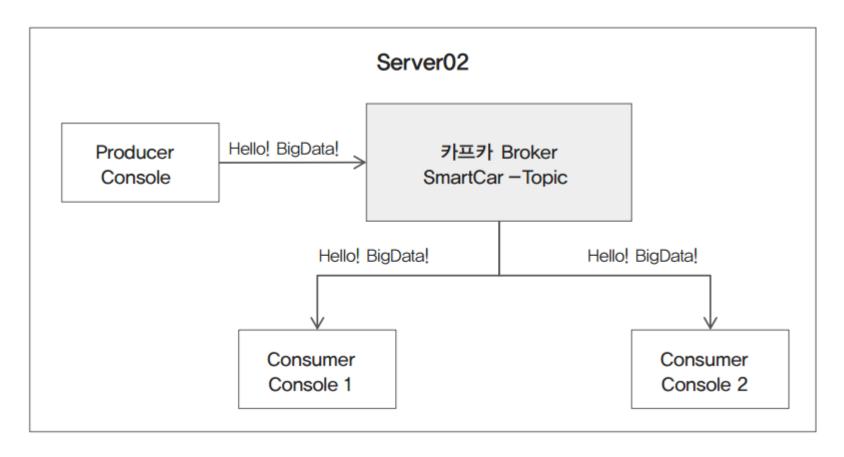


그림 3.30 카프카 Producer와 Consumer의 메시지 송수신 점검

가프카 Topic 생성 (1/2)

\$ kafka-topics --create --zookeeper server02.hadoop.com:2181 --replication-factor 1 --partitions
1 --topic SmartCar-Topic

- replication—factor 옵션은 카프카를 다중 Broker로 만들고 전송한 데이터를 replication—factor 개수만큼 복제하게 되는데, 파일럿 프로젝트에서는 단일 카프카 브로커이므로 복제 개수는 1개만 설정한다.
- partitions 옵션은 해당 Topic에 데이터들이 partitions의 개수만큼 분리 저장하게 된다. 이 역시 다중 Broker에서 쓰기/읽기 성능 향상을 위해 사용하는 옵션이다. 파일럿 환경에서는 1로만 설정 한다.

▼ 카프카 Topic 생성 (2/2)

```
- - X
root@server02:~
20/03/10 23:03:42 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Waiting unti
1 connected.
20/03/10 23:03:42 INFO zookeeper.ClientCnxn: Opening socket connection to server
 server02.hadoop.com/192.168.56.102:2181. Will not attempt to authenticate using
 SASL (unknown error)
20/03/10 23:03:42 INFO zookeeper.ClientCnxn: Socket connection established, init
iating session, client: /192.168.56.102:42996, server: server02.hadoop.com/192.1
68.56.102:2181
20/03/10 23:03:42 INFO zookeeper.ClientCnxn: Session establishment complete on s
erver server02.hadoop.com/192.168.56.102:2181, sessionid = 0x170c41b4d4f0161, ne
gotiated timeout = 30000
20/03/10 23:03:42 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Connected.
20/03/10 23:03:43 INFO zk.AdminZkClient: Creating topic SmartCar-Topic with conf
iguration {} and initial partition assignment Map(0 -> ArrayBuffer(68))
Created topic SmartCar-Topic.
20/03/10 23:03:43 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closing.
20/03/10 23:03:43 INFO zookeeper.ClientCnxn: EventThread shut down
20/03/10 23:03:43 INFO zookeeper.ZooKeeper: Session: 0x170c41b4d4f0161 closed
20/03/10 23:03:43 INFO zookeeper.ZooKeeperClient: [ZooKeeperClient] Closed.
[root@server02 ~]#
```

텔카프카 Producer 사용

\$ kafka-console-producer --broker-list server02.hadoop.com:9092 -topic SmartCar-Topic

```
Proot@server02:~
        ssl.keystore.password = null
        ssl.keystore.type = JKS
        ssl.protocol = TLS
        ssl.provider = null
        ssl.secure.random.implementation = null
        ssl.trustmanager.algorithm = PKIX
        ssl.truststore.location = null
        ssl.truststore.password = null
        ssl.truststore.type = JKS
        transaction.timeout.ms = 60000
        transactional.id = null
        value.serializer = class org.apache.kafka.common.serialization.ByteArraySer
ializer
20/03/10 23:57:08 INFO utils.AppInfoParser: Kafka version: 2.2.1-cdh6.3.2
20/03/10 23:57:08 INFO utils.AppInfoParser: Kafka commitId: unknown
>20/03/10 23:57:08 INFO clients.Metadata: Cluster ID: F5Gx8g0ET0el0k7-cGVryA
>Hello! BigData!
```

₩ 3.6 수집 파일럿 실행 4단계 - 카프카 기능 ▼ 카프카 Consumer-1 사용

\$ kafka-console-consumer --bootstrap-server server02.hadoop.com:9092 --topic SmartCar-Topic
--partition 0 --from-beginning

```
d=console-consumer-33378] (Re-)joining group
20/03/10 23:58:09 INFO internals.AbstractCoordinator: [Consumer clientId=consumer-1, groupI
d=console-consumer-33378] Successfully joined group with generation 1
20/03/10 23:58:09 INFO internals.ConsumerCoordinator: [Consumer clientId=consumer-1, groupI
d=console-consumer-33378] Setting newly assigned partitions: SmartCar-Topic-0
20/03/10 23:58:09 INFO internals.Fetcher: [Consumer clientId=consumer-1, groupId=console-co
nsumer-33378] Resetting offset for partition SmartCar-Topic-0 to offset 0.

Hello! BigData!
```

그림 3.31 카프카 Consumer 1의 메시지 수신

\$ kafka-console-consumer --bootstrap-server server02.hadoop.com:9092 --topic SmartCar-Topic
--partition 0 --from-beginning

```
d=console-consumer-33378] (Re-)joining group
20/03/10 23:58:09 INFO internals.AbstractCoordinator: [Consumer clientId=consumer-1, groupI
d=console-consumer-33378] Successfully joined group with generation 1
20/03/10 23:58:09 INFO internals.ConsumerCoordinator: [Consumer clientId=consumer-1, groupI
d=console-consumer-33378] Setting newly assigned partitions: SmartCar-Topic-0
20/03/10 23:58:09 INFO internals.Fetcher: [Consumer clientId=consumer-1, groupId=console-co
nsumer-33378] Resetting offset for partition SmartCar-Topic-0 to offset 0.

Hello! BigData!
```

그림 3.32 카프카 Consumer 2의 메시지 수신

실습