

#####

## Cloudera Kafka

#####



```
kafka-topics --zookeeper ip-172-31-56-244.us-west-2.compute.internal:2181/kafka --create --topic mytopic1 --partitions 3 --replication-factor 3
```

```
kafka-console-producer --bootstrap-server ip-172-31-57-159.us-west-2.compute.internal:9092 --topic mytopic1
```

```
kafka-console-consumer --bootstrap-server ip-172-31-57-159.us-west-2.compute.internal:9092 --topic mytopic1 --from-beginning
```

```
kafka-topics --zookeeper ip-172-31-56-244.us-west-2.compute.internal:2181/kafka --describe
```

```
kafka-producer-perf-test --producer-props bootstrap.servers=ip-172-31-57-159.us-west-2.compute.internal:9092 --topic mytopic3 --throughput -1 --record-size 1000 --num-records 500000
```

### ##### Cruise Control #####

---\*\* Create topic and populate data \*\*---

```
kafka-topics --bootstrap-server ip-172-31-57-159.us-west-2.compute.internal:9092 --create --topic cruise-control-topic --replication-factor 3 --partitions 25
```

```
kafka-producer-perf-test --producer.config producer.properties --topic cruise-control-topic --throughput -1 --record-size 1000 --num-records 500000
```

---\*\* Adding a Broker \*\*---

>> Add broker in Cloudera

>> Check status from Cruise Control

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

>> Rebalance load on new Broker

```
curl -X POST 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/add_broker?brokerid=1546334556'
```

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

>> Actual Movement

```
curl -X POST 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/add_broker?brokerid=1546334556&dryrun=false&replication_throttle=1000000'
```

>> Check execution status in Cruise Control

```
curl -X GET 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/user_tasks'
```

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

```
curl -X GET 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/state?verbose=true'
```

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

---\*\* Fixing Offline Replicas \*\*---

>> Kill a Broker Process

>> Check the Broker States

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

>> Fix the Replicas

```
curl -X POST 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/fix_offline_replicas?dryrun=false'
```

```
curl -X GET 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/user_tasks'
```

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

>> Add the broker back and repopulate it

```
curl -X POST 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/add_broker?brokerid=1546334431&dryrun=false'
```

```
curl -X GET 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/user_tasks'
```

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

---\*\* Self Healing \*\*---

>> Change Cruise Control Configurations  
self.healing.enabled=true  
anomaly.notifier.class=com.linkedin.kafka.cruisecontrol.detector.notifier.SelfHealingNotifier

>> Kill a Broker Process

>> Check the Broker States

```
curl -X GET http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/kafka_cluster_state
```

>> Check start of self-healing process

```
curl -X GET 'http://ip-172-31-0-192.us-west-2.compute.internal:8899/kafkacruisecontrol/state?substates=executor,anomaly_detector'
```