

kafka-perf-test

請試著佈署一個kafka cluster，並用kafka-producer-perf-test script送資料給一個topic，試著讓一個topic partition的資料夾內的log segment (xxx.log) 出現至少2個，並用kafka-dump-log script看最前面三筆資料。請以截圖搭配說明並作成 pdf 上傳

重現步驟：

使用以下配置起一個 3 個 broker 的 zookeeper mode kafka cluster

```
version: '3'
services:
  zookeeper:
    image: confluentinc/cp-zookeeper:7.2.1
    container_name: zookeeper
    environment:
      ZOOKEEPER_CLIENT_PORT: 2181
  kafka1:
    image: confluentinc/cp-kafka:7.2.1
    container_name: kafka1
    ports:
      - "8097:8097"
    depends_on:
      - zookeeper
    environment:
      KAFKA_BROKER_ID: 1
      KAFKA_ZOOKEEPER_CONNECT: zookeeper:2181
      KAFKA_LISTENER_SECURITY_PROTOCOL_MAP:
EXTERNAL:PLAINTEXT,INTERNAL:PLAINTEXT
      KAFKA_ADVERTISED_LISTENERS:
EXTERNAL://localhost:8097,INTERNAL://kafka1:9092
      KAFKA_INTER_BROKER_LISTENER_NAME: INTERNAL
  kafka2:
    image: confluentinc/cp-kafka:7.2.1
    container_name: kafka2
    ports:
      - "8098:8098"
    depends_on:
      - zookeeper
    environment:
      KAFKA_BROKER_ID: 2
      KAFKA_ZOOKEEPER_CONNECT: zookeeper:2181
      KAFKA_LISTENER_SECURITY_PROTOCOL_MAP:
EXTERNAL:PLAINTEXT,INTERNAL:PLAINTEXT
      KAFKA_ADVERTISED_LISTENERS:
EXTERNAL://localhost:8098,INTERNAL://kafka2:9092
      KAFKA_INTER_BROKER_LISTENER_NAME: INTERNAL
  kafka3:
    image: confluentinc/cp-kafka:7.2.1
    container_name: kafka3
    ports:
```

使用 kafka-producer-perf-test 製造 500000 個 record

~/r/u/playground-2022/ka/kafka-iaava-getting-started master +1 *1 !4 ?182

```

> kafka-topics --describe --bootstrap-server localhost:8098 --topic test-topic
Topic: test-topic      TopicId: rzsa_wagQE6UatT3yYhDMA PartitionCount: 1      Replication
Factor: 1      Configs:
      Topic: test-topic      Partition: 0      Leader: 2      Replicas: 2      Isr: 2

```

```
> docker exec -it zookeeper bash
[appuser@d33ea0746fdc ~]$ zookeeper-shell localhost:2181
Connecting to localhost:2181
Welcome to ZooKeeper!
JLine support is disabled

WATCHER::

WatchedEvent state:SyncConnected type:None path:null
get /brokers/ids/2
{"features":{}, "listener_security_protocol_map": {"EXTERNAL": "PLAINTEXT", "INTERNAL": "PLAINTEXT"}, "endpoints": ["EXTERNAL://localhost:8098", "INTERNAL://kafka2:9092"], "jmx_port": -1, "port": 8098, "host": "localhost", "version": 5, "timestamp": "1704159653929"}
```

```
[appuser@415811a3c888 ~]$ ls /var/lib/kafka/data/test-topic-0/  
00000000000000000000.index          00000000000001060144.snapshot  
00000000000000000000.log            00000000000001060144.timeindex  
00000000000000000000.timeindex      leader-epoch-checkpoint  
00000000000001060144.index           partition.metadata  
00000000000001060144.log  
[appuser@415811a3c888 ~]$
```

```
[lappuser@415811a3c888 ~]$ kafka-dump-log --files /var/lib/kafka/data/test-topic-0/000000000
00000000000000000000.log | head -n 10
Dumping /var/lib/kafka/data/test-topic-0/0000000000000000000000000000000000000000.log
Starting offset: 0
baseOffset: 0 lastOffset: 15 count: 16 baseSequence: 0 lastSequence: 15 producerId: 0 prod
ucerEpoch: 0 partitionLeaderEpoch: 0 isTransactional: false isControl: false deleteHorizon
Ms: OptionalLong.empty position: 0 CreateTime: 1704181086429 size: 16205 magic: 2 compress
codec: none crc: 699985189 invalid: true
baseOffset: 16 lastOffset: 31 count: 16 baseSequence: 16 lastSequence: 31 producerId: 0 pr
oducerEpoch: 0 partitionLeaderEpoch: 0 isTransactional: false isControl: false deleteHoriz
onMs: OptionalLong.empty position: 16205 CreateTime: 1704181086430 size: 16205 magic: 2 co
mpresscodec: none crc: 1710737397 invalid: true
baseOffset: 32 lastOffset: 47 count: 16 baseSequence: 32 lastSequence: 47 producerId: 0 pr
oducerEpoch: 0 partitionLeaderEpoch: 0 isTransactional: false isControl: false deleteHoriz
onMs: OptionalLong.empty position: 32410 CreateTime: 1704181086431 size: 16205 magic: 2 co
mpresscodec: none crc: 2105528465 invalid: true
```