Kafka, Zookeeper □□ □ □□

1. □□ □□□□ □□

1.1. Java □□ □□

Kafka□ Java □□□□ □□□□□. Java 8 □□□ □□□□, □□ □□□ □□□□□.

```
java -version
```

- □□□□ □□ □□, OpenJDK □□ Oracle JDK□ □□□□□.

```
brew update
brew install openjdk@11
```

1.2. □□□ □□ □□

Kafka□ □□ □□ `/tmp/kafka-logs` □□□□□□□□□□□□. □□□□□

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2. ZooKeeper □□ □ □□

2.1. ZooKeeper □□

ZooKeeper□ Kafka□ □□□□ □□ □□□□□ □□□□□. □□ □□□□ □□□□□.

```
brew install zookeeper
```

2.2. ZooKeeper □□

ZooKeeper□ □□□□□ □□ □□□□ □□□□□.

```
brew services start zookeeper
```

2.3. ZooKeeper □□ □□ □□

ZooKeeper □□ □□□ □□□□□□ □□ □□□□ □□□□□.

```
brew services list
```

2.4. ZooKeeper □□ □□ □□ □□

ZooKeeper □□ `/etc/zookeeper/conf/zoo.cfg` □ □□□□□□. □□□ □□ □□ □□□□□□

```
dataDir=/var/lib/zookeeper
clientPort=2181
maxClientCnxns=60
initLimit=10
syncLimit=5
server.1=localhost:2888:3888
```

- **`dataDir`**:
  - ZooKeeper □□□(□□□□ □□□□ □□)□ □□□□ □□□□□□□
  - ZooKeeper□ □□ □□ □□□ □□□ □□□ □□□□□
  - □: `/usr/local/var/run/zookeeper`
- **`clientPort`**:
  - □□□□□□ ZooKeeper□ □□□□ □□ □□□□ □□ □□□□□
  - □ `2181` □□, □□□□□□ ZooKeeper□ □□□ □□□ □□□ □□□ □□□
- **`maxClientCnxns`**:
  - ZooKeeper□ □□□ □ □□ □□□□□□ □□ □□ □□ □□□□□
  - □□□ □□□□□(□□ IP □□)□□ □□□ □□□ □□□□ □□□ □□□
- **`initLimit`**:
  - ZooKeeper □□□□□□ □□□(follower)□ □□(leader)□ □□ □□□ □□□□ □□□□ □ □□□ □□□ □□□□□
  - □ □□□ □□□□ □□□□ □□□ □□□□□
- **`syncLimit`**:
  - ZooKeeper □□□□ □□□ □□□ □□□□ □□□ □ □□ □□(□ □)□ □□□□□
  - □□□□ □□□□ □ □□□□ □□ □□□□ □□□□ □□□□□□
- **`server.x`**:
  - ZooKeeper □□□ □□□□ □□□ □□□ □, □ □□□ □□□ □□□□□
  - □ `server.<ID>=<□□□>:<follower-to-leader>:<leader-to-follower>`
    - `<ID>`: ZooKeeper □□ ID
    - `<□□>`:ZooKeeper □□□ □□□ □□ □□ IP
    - `<follower-to-leader>`: □□□□ □□□□ □□□ □□ □ □□□□ □□
    - `<leader-to-follower>`: □□□ □□□□ □□□ □ □□□□ □□

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3. Kafka □□□□ □ □□

3.1. Kafka □□□□

```
brew install kafka
```

3.2. Kafka □□

Kafka □□□□ □□□□□ ZooKeeper□ □□ □□□ □□□ □ □□ □□□□ □□

```
brew services start kafka
```

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4. □□□□ □□

4.1. □□□□ □□

`~/.bashrc` □ `~/.zshrc` □□□ □□ □□ □□□ □□□□□.

```
export KAFKA_HOME=/usr/local/opt/kafka
export PATH=$PATH:$KAFKA_HOME/bin
```

4.2. □□□□ □□

```
source ~/.bashrc
```

---

5. Kafka □□ □□ □□

5.1. □□ □□ □□

Kafka □□ `/usr/local/etc/kafka/server.properties` □ □□□□□.

5.2. □□ □□ □□

```
broker.id=0
log.dirs=/tmp/kafka-logs
zookeeper.connect=localhost:2181
num.partitions=1
default.replication.factor=1
listeners=PLAINTEXT://0.0.0.0:9092
```

```
advertised.listeners=PLAINTEXT://localhost:9092
```

- **broker.id** : □□□ ID□ □□□□□. □□□□□□ □□□□ □□□
- **log.dirs** : Kafka □□ □□□□ □□□ □□□□ □□
- **zookeeper.connect** : ZooKeeper □□ □ □□ □□
- **num.partitions** : □□ □□□□ □□□ □□ □□□ □
- **default.replication.factor** : □□ □□□□ □□□ □□ □□□ □
- **advertised.listeners** **:**
  - □□Kafka □□□□ □□□□□□□ □□□ □□ □ □□□□ □□□ □□□□□. □□□□□□□ □ □□□ □□ □□□□ □□
  - □: PLAINTEXT://localhost:9092
  - **localhost** : □□□□ □□□□□□□ □□□□ IP □□□□□. □□ □□ □□□□□□ □□ □□□□□ □□□□□.
  - **9092** : □□□□□□ □□□ □□ □□□□□.
  - **PLAINTEXT** : □□□□□□ □ □□□□ □□ □□□ □□□□□ □□□□ □□□□□.
- **listners** **:**
  - □□Kafka □□□□ □□□ □□□ □ □□□ □□□□ □□□ □□□□□.
  - □: PLAINTEXT://0.0.0.0:9092
    - **PLAINTEXT** : □ □□□□ □□□□□□ □□□ □ □□□□□ □□ □□ □□□ □□□□□ □□□□ □□□□□.
    - **0.0.0.0** : □□□□ □□ □□□□ □□□□□□□ □□□ □□□□□ □□□□□. □, □□□□ □□□ □ □□□ □□ □□ □□□□□.
    - **9092** : □□□□ □□□ □□ □□□□□.

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