

一. 安装zookeeper

版本：zookeeper-3.4.5-cdh5.7.0

1. 解压

```
tar -xzf zookeeper-3.4.5-cdh5.7.0.tar.gz /hadoop/app
```

2. 修改配置文件

```
cd /hadoop/app/zookeeper-3.4.5-cdh5.7.0/conf/
```

```
cp zoo_sample.cfg zoo.cfg
```

修改zoo.cfg:

```
dataDir=/hadoop/app/zookeeper-3.4.5-cdh5.7.0/data
```

```
dataLogDir=/hadoop/app/zookeeper-3.4.5-cdh5.7.0/logs
```

```
clientPort=12181
```

创建目录：

```
mkdir /hadoop/app/zookeeper-3.4.5-cdh5.7.0/data
```

```
mkdir /hadoop/app/zookeeper-3.4.5-cdh5.7.0/logs
```

3. 启动zookeeper

编辑配置文件 ~/.bashrc

增加配置：

```
export ZOOKEEPER_HOME=/hadoop/app/zookeeper-3.4.5-cdh5.7.0
```

```
export PATH=$ZOOKEEPER_HOME/bin:$PATH
```

使环境变量生效：source ~/.bashrc

启动：

```
./bin/zkServer.sh start
```

二、Kafka安装

1、上传并解压kafka

版本：kafka_2.10-0.9.0.1

2、解压并修改配置

```
tar -xzf kafka_2.10-0.9.0.1.tgz -C /hadoop/app
```

3. 修改配置文件

```
cd /hadoop/app/kafka_2.10-0.9.0.1/config
```

修改配置：

```
log.dirs=/hadoop/app/kafka_2.10-0.9.0.1/data
```

```
zookeeper.connect=spark123:12181/kafka0.9
```

注意：后面的kafka0.9是kafka在zookeeper的目录。在实际生产中，很少配置成zookeeper.connect=spark123:12181。

4. 启动kafka

```
./bin/kafka-server-start.sh ./config/server.properties
```

注意：在单机上面如果要启动多个broker (kafka服务)，需要再复制一份server.properties配置文件，如下：

```
cp server2.properties
```

修改：

```
broker.id=1 # 跟server.properties的broker.id区分开
```

```
listeners=PLAINTEXT://:19092 # 跟server.properties的9092端口区分开
```

```
log.dirs=/hadoop/app/kafka_2.10-0.9.0.1/data1 # 存放数据 的目录
```

```
zookeeper.connect=spark123:12181/kafka0.9
```

查看12181端口和9092端口：

```
1 [root@localhost ~]# lsof -i:12181
2 (ESTABLISHED)
3 [root@localhost ~]#
4 [root@localhost ~]# lsof -i:9092
5 COMMAND  PID USER  FD   TYPE DEVICE SIZE/OFF NODE NAME
6 java     1966 root   54u  IPv6  13835      0t0  TCP *:XmlIpcRegSvc (LISTEN)
7 java     1966 root   55u  IPv6  13837      0t0  TCP localhost:45860->localhost:XmlIpcRegSvc (ESTABLISHED)
8 java     1966 root   59u  IPv6  13839      0t0  TCP localhost:XmlIpcRegSvc->localhost:45860 (ESTABLISHED)
```

4、创建topic

```
1 # bin/kafka-topics.sh --zookeeper localhost:12181/kafka0.9 --create --topic  
mykafka1 --partitions 3 --replication-factor 2  
2
```

查看状态：

```
1 [root@localhost kafka_2.11-0.8.2.2]# bin/kafka-topics.sh --zookeeper  
localhost:12181/kafka0.9 --describe --topic mykafka1  
2 Topic:test1 PartitionCount:3 ReplicationFactor:1 Configs:  
3 Topic: test1 Partition: 0 Leader: 0 Replicas: 0 Isr: 0  
4 Topic: test1 Partition: 1 Leader: 0 Replicas: 0 Isr: 0  
5 Topic: test1 Partition: 2 Leader: 0 Replicas: 0 Isr: 0
```

5、创建消费者

```
1 [root@localhost kafka_2.11-0.8.2.2]# bin/kafka-console-consumer.sh --zookeeper  
localhost:12181/kafka0.9 --topic mykafka1
```

6、创建生产者

```
1 [root@localhost kafka_2.11-0.8.2.2]# bin/kafka-console-producer.sh --broker-  
list localhost:9092 --topic mykafka1  
2 [2017-03-05 09:01:27,656] WARN Property topic is not valid  
(kafka.utils.VerifiableProperties)
```