

创建目录

```
mkdir -p /app/zookeeper
```

解压

```
tar -xvf apache-zookeeper-3.8.4-bin.tar.gz
```

参数配置

```
cd /app/zookeeper/apache-zookeeper-3.8.4-bin
mkdir data
```

```
cd /app/zookeeper/apache-zookeeper-3.8.4-bin/conf
cp zoo_sample.cfg zoo.cfg
```

```
vi zoo.cfg
```

```
dataDir=/app/zookeeper/apache-zookeeper-3.8.4-bin/data
```

启动服务

```
cd /app/zookeeper/apache-zookeeper-3.8.4-bin/bin/
./zkServer.sh start

./zkServer.sh status
```

查看

```
[fwl@kafka ~]$ zkServer.sh status
ZooKeeper JMX enabled by default
Using config: /app/zookeeper/apache-zookeeper-3.8.4-bin/bin/../conf/zoo.cfg
Client port found: 2181. Client address: localhost. Client SSL: false.
Mode: standalone
[fwl@kafka ~]$ jps
7458 Jps
7372 QuorumPeerMain
[fwl@kafka ~]$ █
```

Note：单机部署，使用默认端口为2181，自定义个数据目录，java进程名：QuorumPeerMain

3、配置kafka

创建目录

```
mkdir /app/kafka
```

解压

```
tar -zxvf kafka_2.13-2.8.2.tgz
```

配置参数

```
vi server.properties
```

```
log.dirs=/app/kafka/kafka_2.13-2.8.2/data/kafka-logs
```

```
num.partitions=1
```

```
default.replication.factor=1
```

服务启动

```
cd /app/kafka/kafka_2.13-2.8.2
bin/kafka-server-start.sh -daemon config/server.properties
```

查看

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```
[fwl@kafka kafka_2.13-2.8.2]$ jps
8065 Kafka
8084 Jps
7372 QuorumPeerMain
[fwl@kafka kafka_2.13-2.8.2]$
```

Note：单机版部署，使用默认端口9092

三、debezium配置

```
新建插件目录
cd /app/kafka/kafka_2.13-2.8.2
mkdir plugins

解压到插件目录
cd /app/kafka/kafka_2.13-2.8.2/plugins
tar -zxvf debezium-connector-oracle-2.7.3.Final-plugin.tar.gz
tar -zxvf debezium-connector-jdbc-2.7.3.Final-plugin.tar.gz

查看
[fwl@kafka plugins]$ ll
total 65952
drwxrwxr-x 2 fwl fwl      4096 Oct 16 23:29 debezium-connector-jdbc
-rw-r--r-- 1 root root 32787029 Oct 16 05:07 debezium-connector-jdbc-2.7.3.Final-plugin.tar
drwxrwxr-x 2 fwl fwl      4096 Oct 16 09:03 debezium-connector-oracle
-rw-r--r-- 1 root root 34731726 Oct 16 05:07 debezium-connector-oracle-2.7.3.Final-plugin.t
[fwl@kafka plugins]$

修改connect配置文件
cd /app/kafka/kafka_2.13-2.8.2/config
vi connect-distributed.properties

plugin.path=/app/kafka/kafka_2.13-2.8.2/plugins

启动
cd /app/kafka/kafka_2.13-2.8.2
bin/connect-distributed.sh -daemon config/connect-distributed.properties
```

Note：connect有2种方式standalone和distributed，默认端口8083，可以配置启动多个connect

查看进程

```
[fwl@kafka kafka_2.13-2.8.2]$ jps
8065 Kafka
8786 ConnectDistributed
8905 Jps
7372 QuorumPeerMain
[fwl@kafka kafka_2.13-2.8.2]$
```

查看插件


```
[fwl@kafka kafka_2.13-2.8.2]$ curl -s localhost:8083/connector-plugins|jq
[
  {
    "class": "io.debezium.connector.jdbc.JdbcSinkConnector",
    "type": "sink",
    "version": "2.7.3.Final"
  },
  {
    "class": "io.debezium.connector.oracle.OracleConnector",
    "type": "source",
    "version": "2.7.3.Final"
  },
  {
    "class": "org.apache.kafka.connect.file.FileStreamSinkConnector",
    "type": "sink",
    "version": "2.8.2"
  },
  {
    "class": "org.apache.kafka.connect.file.FileStreamSourceConnector",
    "type": "source",
    "version": "2.8.2"
  },
  {
    "class": "org.apache.kafka.connect.mirror.MirrorCheckpointConnector",
    "type": "source",
    "version": "1"
  },
  {
    "class": "org.apache.kafka.connect.mirror.MirrorHeartbeatConnector",
    "type": "source",
    "version": "1"
  },
  {
    "class": "org.apache.kafka.connect.mirror.MirrorSourceConnector",
    "type": "source",
    "version": "1"
  }
]
```

四、抽取-source connector配置

捕获Oracle支持3种方式，LogMiner、XStream API和OpenLogReplicator，以下使用logminer的方式。

配置数据库

```
alter database archivelog;
alter database force logging;
alter database add supplemental log data;
```

创建的CDC专用用户

```
create tablespace dbzumbts datafile '/oracle/app/oracle/oradata/fwldb/dbzumbts01.dbf' size
create user dbzum identified by "dbzum" default tablespace dbzumbts quota unlimited on dbzu
grant dba to dbzum;
```

开启附加日志

```
ALTER TABLE scott.nokey05 ADD SUPPLEMENTAL LOG DATA (PRIMARY KEY, UNIQUE) COLUMNS;
```

抽取connector配置

```
curl -X POST http://localhost:8083/connectors -H "Content-Type: application/json" -d '{
  "name": "scott_source01",
  "config": {
    "connector.class" : "io.debezium.connector.oracle.OracleConnector",
    "tasks.max" : "1",
    "topic.prefix":"fwldb",
    "database.hostname" : "192.168.137.12",
    "database.port" : "1521",
    "database.user" : "dbzum",
    "database.password" : "dbzum",
    "database.dbname" : "fwldb",
    "snapshot.mode":"no_data",
    "table.include.list" : "scott.fwl_t1",
    "log.mining.strategy":"online_catalog",
    "schema.history.internal.kafka.bootstrap.servers" : "192.168.137.11:9092",
    "schema.history.internal.kafka.topic": "fwldb"
  }
}'
```

测试

```
insert into FWL_T1 values(1,'aa');
update FWL_T1 set name='bb' where id = 1;
```


五、入库-sink connector配置

连接器配置

```
curl -X POST http://localhost:8083/connectors -H "Content-Type: application/json" -d '{
  "name": "scott_sink01",
  "config": {
    "connector.class":"io.debezium.connector.jdbc.JdbcSinkConnector",
    "tasks.max": "1",
    "connection.url":"jdbc:oracle:thin:@192.168.137.12:1521/testdb",
    "connection.username":"fwl",
    "connection.password":"fwl",
    "table.name.format":"fwl.fwl_t1",
    "insert.mode":"upsert",
    "delete.enabled":"true",
    "primary.key.mode":"record_key",
    "schema.evolution":"basic",
    "topics":"fwldb.SCOTT.FWL_T1"
  }
}'
```

连接器状态查看

```
[fwl@kafka kafka_2.13-2.8.2]$ curl -s localhost:8083/connectors/scott_sink01/status|jq
{
  "name": "scott_sink01",
  "connector": {
    "state": "RUNNING",
    "worker_id": "192.168.137.11:8083"
  },
  "tasks": [
    {
      "id": 0,
      "state": "RUNNING",
      "worker_id": "192.168.137.11:8083"
    }
  ],
  "type": "sink"
}
```

[fwl@kafka kafka_2.13-2.8.2]\$

Note：可以利用正则匹配多个topic入库

六、数据检查

检查插入和更新

SQL> select * from scott.fwl_t1;

ID	NAME
1	bb

SQL>

```
SQL> select * from fwl.fwl_t1;

ID
-----
NAME
-----
1
bb

SQL>
```

topic信息查看

```
    "version": 2
  },
  "payload": {
    "before": null,
```



```
    "after": {
      "ID": "1",
      "NAME": "aa"
    },
    "source": {
      "version": "2.7.3.Final",
      "connector": "oracle",
      "name": "fwldb",
      "ts_ms": 1742334975000,
      "snapshot": "false",
      "db": "FWLDB",
      "sequence": null,
      "ts_us": 1742334975000000,
      "ts_ns": 1742334975000000000,
      "schema": "SCOTT",
      "table": "FWL_T1",
      "txId": "060002005a0e0000",
      "scn": "3729260",
      "commit_scn": "3729267",
      "lcr_position": null,
      "rs_id": "0x0001e4.000012c6.01b0",
      "ssn": 0,
      "redo_thread": 1,
      "user_name": "SCOTT",
      "redo_sql": null,
      "row_id": "AAAaxEAAEAAAFrAAA"
    },
    "transaction": null,
    "op": "c",
    "ts_ms": 1742306181827,
    "ts_us": 1742306181827592,
    "ts_ns": 1742306181827592000
  }
}

},
"payload": {
  "before": {
    "ID": "1",
    "NAME": "aa"
  },
  "after": {
    "ID": "1",
    "NAME": "bb"
  },
  "source": {
    "version": "2.7.3.Final",
    "connector": "oracle",
    "name": "fwldb",
    "ts_ms": 1742335057000,
    "snapshot": "false",
    "db": "FWLDB",
    "sequence": null,
    "ts_us": 1742335057000000,
    "ts_ns": 1742335057000000000,
    "schema": "SCOTT",
    "table": "FWL_T1",
    "txId": "080000008f0d0000",
    "scn": "3729430",
    "commit_scn": "3729437",
    "lcr_position": null,
    "rs_id": "0x0001e4.00001301.0010",
    "ssn": 0,
    "redo_thread": 1,
    "user_name": "SCOTT",
    "redo_sql": null,
    "row_id": "AAAaxEAAEAAAFrAAA"
  },
  "transaction": null,
  "op": "u",
  "ts_ms": 1742306263662,
  "ts_us": 1742306263662434,
  "ts_ns": 1742306263662434000
}
```

```
}
}
Processed a total of 1 messages
[fwl@kafka kafka_2.13-2.8.2]$
```

最后检查删除

```
SQL> delete scott.fwl_t1 where id = 1;

1 row deleted.

SQL> commit;

Commit complete.

SQL> select * from scott.fwl_t1;

no rows selected

SQL>
```

```
SQL> select * from fwl.fwl_t1;

no rows selected

SQL>
```

topic信息查看

```
{,
  "payload": {
    "before": {
      "ID": "1",
      "NAME": "bb"
    },
    "after": null,
    "source": {
      "version": "2.7.3.Final",
      "connector": "oracle",
      "name": "fwldb",
      "ts_ms": 1742335644000,
      "snapshot": "false",
      "db": "FWLDB",
      "sequence": null,
      "ts_us": 1742335644000000,
      "ts_ns": 1742335644000000000,
      "schema": "SCOTT",
      "table": "FWL_T1",
      "txId": "06001f00380e0000",
      "scn": "3731008",
      "commit_scn": "3731009",
      "lcr_position": null,
      "rs_id": "0x0001e4.00002a0b.0010",
      "ssn": 0,
      "redo_thread": 1,
      "user_name": "SCOTT",
      "redo_sql": null,
      "row_id": "AAAxEAAEAAAFrAAA"
    },
    "transaction": null,
    "op": "d",
    "ts_ms": 1742306848644,
    "ts_us": 1742306848644706,
    "ts_ns": 1742306848644706000
  }
}
Processed a total of 1 messages
[fwl@kafka kafka_2.13-2.8.2]$
```

Note：可以看到数据同步正常。

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