

KAFKA-CONNECTORS

Add Plugins paths :

Add the plugin paths for FileStreamSource and Sink Connectors and JdbcSourceConnector and SinkConnectors classes

nano etc/kafka/connect-distributed.properties

Add the following lines

listeners=http://0.0.0.0:8083

rest.advertised.host.name=localhost

rest.advertised.port=8083

plugin.path=/usr/share/java,/usr/share/filestream-connectors,/usr/local/share/kafka/plugins,/usr/local/share/kafka/plugins/confluentinc-kafka-connect-jdbc-10.8.0

I. FileStreamSourceConnector :

Create topic for stream messages from external source file to the topic

Kafka-topics --create --bootstrap-server localhost:9092 --topic filesource --replication-factor 1 --partitions 1

Create input.txt file for as source file and write some messages to input.txt

Create a source connector to import data into Kafka from a file.

```
curl -X POST http://localhost:8083/connectors \
-H 'Accept: */*' \
-H 'Content-Type: application/json' \
-d '{
"name": "file_source_connector",
"config": {
"connector.class":
"org.apache.kafka.connect.file.FileStreamSourceConn
ector",
"topic": "filesource",
"file": "/home/arunmg/input.txt",
"value.converter":
"org.apache.kafka.connect.storage.StringConverter"
}
}'
```

To check the connector is created or not

```
curl -X GET
http://localhost:8083/connectors/file\_source\_connector
```

To check the status of connector created

```
curl -X GET
http://localhost:8083/connectors/file\_source\_connector/status
```

To check the Topic consume messages from topic

```
kafka-console-consumer --bootstrap-server  
localhost:9092 --topic filesource --from-beginning
```

II. FileStreamSinkConnector :

Create topic for stream messages To external sink file
from the topic

```
Kafka-topics --create --bootstrap-server  
localhost:9092 --topic filesink --replication-factor 1  
--partitions 1
```

Create output.txt file for as sink file and stream some
messages to output.txt using sink connector

Create a sink connector to export data from Kafka to a
file.

```
curl -X POST http://localhost:8083/connectors \  
-H 'Accept: */*' \  
-H 'Content-Type: application/json' \  
-d '{  
  "name": "file_sink_connector",  
  "config": {  
    "connector.class":  
    "org.apache.kafka.connect.file.FileStreamSinkConnect  
or",  
    "topics": "filesink",
```

```
"file":  
"/home/mpshriveena/Desktop/Platformatory/trials/output.txt",  
"value.converter":  
"org.apache.kafka.connect.storage.StringConverter"  
}  
'
```

Check the contents of the output file.
cat /home/arunmg/output.txt

vi output.txt

To check the connector is created or not

curl -X GET
http://localhost:8083/connectors/file_source_connector

To check the status of connector created

curl -X GET
http://localhost:8083/connectors/file_source_connector/status

III. **JdbcSourceConnector** :

Source database : postgresql

Topic : postgres-jdbc

Table : employees

Create json application to connectors

```
curl -X POST http://localhost:8083/connectors -H
"Content-Type: application/json" -d '{
  "name": "jdbc_postgresql_source2",
  "config": {
    "connector.class":
"io.confluent.connect.jdbc.JdbcSourceConnector",
    "tasks.max": "1",
    "connection.url":
"jdbc:postgresql://127.0.0.1:5432/testdb",
    "connection.user": "Arun",
    "connection.password": "Arun123",
    "table.whitelist": "employees",
    "topic.prefix": "postgres-jdbc",
    "mode": "incrementing",
    "incrementing.column.name": "id",
    "poll.interval.ms": "10000",
  }
}'
```

Login into the database psql :

```
sudo -i -u postgres
Psql
create user kiran with password 'Arun123';
grant all privileges on database testdb to Arun;
```

Create table employees and insert some values into employees

Create table employees(id serial PRIVATE KEY, name varchar(255) ,department varchar(55), salary int);

INSERT INTO employees (name, department, salary)
VALUES ('Arun', 'IT' ,40000);

Consume messages from the topic :

kafka-console-consumer --bootstrap-server
localhost:9092 --topic postgres-jdbc --from-beginning

IV. **JdbcSinkConnector :**

sink database : mydatabse

Topic : mysql-jdbc

Table : employees

Create json application to connectors

```
curl -X POST http://localhost:8083/connectors -H  
"Content-Type: application/json" -d '{  
  "name": "jdbc_mysqlserver_sink",  
  "config": {  
    "connector.class":  
    "io.confluent.connect.jdbc.JdbcSinkConnector",
```

```
"tasks.max": "1",
"topics": "mysql-jdbc",
"connection.url":
"jdbc:mysql://127.0.0.1:3306/mydatabse",
"connection.user": "root",
"connection.password": "root_passwd",
"auto.create": "true",
"insert.mode": "insert",
"pk.mode": "none",
"fields.whitelist": "name,department,salary",
"batch.size": "10",
"value.converter":
"org.apache.kafka.connect.json.JsonConverter",
"key.converter":
"org.apache.kafka.connect.json.JsonConverter",
"value.converter.schemas.enable": "false",
"key.converter.schemas.enable": "false",
"table.name.format": "employees"
}
}'
```

Login into the database psql :

```
sudo -i -u mysql
```

During installing the mysql server in linux root user already created with passwd

Create table employees and insert some values into employees

Create table employees(id serial PRIVATE KEY, name varchar(255) ,department varchar(55), salary int);
ck
the

Query the table employees :

SELECT * FROM EMPLOYEES ;