

Kafka To File DataStream

Step 1: For Kafka to File DataStream, we have this following Details

Data Stream

Kafka_to_file

Sources

DFS

Hive

JMS

Kafka

Sinks

+

Transforms

+

Actions

+

TGT_File_Test

Design

Script

General

Target Attributes

Attribute Mapper

Properties

Name

TGT_File_Test

Description

Data Object Name: File_Test (Change)

Data Point: File_test_1

Transient Object: No

Database Type: Flatfile

PurpleCube Studio

Project

purpleCode

New

Save

Revert

Refresh

Close

Arrange

Data Stream

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+

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+

Actions

+

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#	Attribute	Data Type	Prec	Scale	Data Sensitivity	Not Null	Key Type	Description
1	kafka_event_time	timestamp			NA	<input type="checkbox"/>	Not a Key	
2	resourceQuota	string			NA	<input type="checkbox"/>	Not a Key	
3	state	varchar	50		NA	<input type="checkbox"/>	Not a Key	
4	provisioned	varchar	50		NA	<input type="checkbox"/>	Not a Key	
5	tenantid	varchar	50		NA	<input type="checkbox"/>	Not a Key	

Data Stream

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SRC_kafka_producer

TGT_File_Test

TGT_File_Test

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Unlink

Unlink all

Auto map

Target Attribute	Tgt Data Type	Source Attribute	Src Data Type	
kafka_event_time	timestamp	SRC_kafka_producer.kafka_event_time	timestamp	
resourceQuota	string	SRC_kafka_producer.resourceQuota	string	
state	varchar (50)	SRC_kafka_producer.state	string	
provisioned	varchar (50)	SRC_kafka_producer.provisioned	int	
tenantid	varchar (50)	SRC_kafka_producer.tenantid	string	

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Properties

Property	Value		
Create Sub Directory	DO NOT CREATE		
File Name Suffix	SEQUENCE		
File Name	FileData.csv		

Step 2: In File as Target the Script is not created

PurpleCube Studio Project: purpleCode

Data Stream: Kafka_to_file

Sources: -
Sinks: +
Transforms: +

TGT_File_Test

Design Script

No script for selected unit

Network Elements Console Sources Performance Memory Application Security

Filter ☐ Invert ☐ Hide data URLs ☐ Hide extension URLs All Fetch/XHR Doc C

☐ Blocked requests ☐ 3rd-party requests

100 ms 200 ms 300 ms 400 ms 500 ms 600 ms

Name	X	Headers	Preview	Response	Initiator	Timing	Cookies
session	1						
false	-			"retMsgObject": "",			
	-			"retMsgObjects": [],			

Step 3: There is no script available for file as target so checked how the script for Kafka to Kafka is generated from backend.

The screenshot displays the Data Studio interface for a Kafka data stream named 'Kafka_to_kafka'. The top section shows the 'Data Stream' view with a diagram of the data flow: SRC_kafka_producer → EXPR_NAME_1 → TGT_kafka_consumer_1. Below this, the 'Script' tab is active, showing a SQL query:

```
--output_topics::streamoutputtopic1::--final_sql::SELECT
  EXPR_NAME_1.kafka_event_time AS kafka_event_time
  ,EXPR_NAME_1.resourceQuota AS resourceQuota
  ,EXPR_NAME_1.state AS state
```

The bottom section shows the 'Network' tab with a list of requests. The first request is a GET request to the URL `http://4.227.154.243:9000/service/studio/showsql/185/4/false` with a status code of 200 OK. The response body is:

```
{
  "retMsgObject": "--output_topics::streamoutputtopic1::--final_sql::SELECT\n\\tEXPR_NAME_1.kafka_event_time AS kafka_event_time\\n\\t,EXPR_NAME_1.resourceQuota AS r\n  ,EXPR_NAME_1.state AS state",
  "retMsgObjects": []
}
```

Step 4: I have Added Logs to Specific API
 (/service/studio/showsql/185/4/false) to check how the script is generating
 from backend.

```

2225 }
2226
2227 BeanUtils.rePrepareDesignFromJSON(design);
2228 logger.info("rePrepareDesignFromJSON: " + design.toString());
2229 DesignManager designManager = new DesignManager();
2230 designManager.setSession(session);
2231 DesignObj designObj = designManager.selectMapObj(design);
2232 if(design != null){
2233     design.setUdfs(designObj.getUdfs());
2234
2235     // DDS 3421 <gkumar><20-07-2017> user defined expressions are not wokring...
2236     design.setDbFuns(designObj.getDbFuns());
2237
2238     design.setDBSeqs(designObj.getDBSeqs());
2239 }
2240
2241 //STEP-1: Call DesignCompile and get DommainCommandJob with all possible subunits among that only grab required S
2242 DesignCompile designCompile = new DesignCompile();
2243 logger.info("DesignCompile Data: "+designCompile.toString());
2244 String cmd = designCompile.viewSQL(design,obj_Id);
2245 logger.info("CMD Details: "+cmd.toString());
2246
2247
2248 //STEP-2: Parameterize required commands above //TODO -Need to remove latter
2249 ParamCompile paramCompile = new ParamCompile();
2250 paramCompile.setSession(session);
2251 DomainJobParamMapping domainJobParamMapping = paramCompile.prepareDefaultParams(design);
2252 logger.info("Domain Job Data:"+domainJobParamMapping.toString());
2253 cmd = paramCompile.replaceParams(domainJobParamMapping, cmd);

```

Step 5: I have checked the Logs in diserver.logs in controller of Genai server (4.227.154.243) and found the Kafka as Target script in java class logs.

```

CMD Details: --output_topics::streamoutputtopic1::--final_sql::SELECT      EXPR_NAME_1.kafka_event_time AS kafka_event_time      ,EXPR_NAME_1.resour
Domain Job Data:DomainJobParamMapping [defaultParams=      $TFORM_EXPR_NAME_1_atmpb : global_temp.EXPR_NAME_1_atmpb      $DO_0124_KK_KAFKA_TEST_KK_KAFKA_KAF
SQL command retrieved: --output_topics::streamoutputtopic1::--final_sql::SELECT      EXPR_NAME_1.kafka_event_time AS kafka_event_time      ,EXPR_NAME_1.reso

```

Step 6: I can see Kafka as target script in Java Class Logs but not able to identify how the script is generating from backend.