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Confluent Platform Quick Start (Docker)

This quick start shows you how to get up and running with Confluent Platform and its main components using Docker containers. This quick start demonstrates both the basic and most powerful capabilities of Confluent Platform, including using Control Center for topic management and event stream processing using KSQL. In this quick start, you create Apache Kafka® topics, use Kafka Connect to generate mock data to those topics, and create KSQL streaming queries on those topics. You then go to Control Center to monitor and analyze the event streaming gueries.

See also

You can also run an automated version of this quick start (https://github.com/confluentinc/examples/tree/5.4.0-post/cp-quickstart/README.md) designed for Confluent Platform local installs.

Prerequisites:

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the default Docker memory allocation is 2 GB. You can change the default allocation to 8 GB in **Docker** > **Preferences** > **Advanced**.

- Git (https://git-scm.com/downloads).
- Internet connectivity.
- Ensure you are on an Operating System (../installation/versionsinteroperability.html#operating-systems) currently supported by Confluent Platform.
- Networking and Kafka on Docker: Configure your hosts and ports to allow both internal and external components to the Docker network to communicate. For more details, see this article (https://rmoff.net/2018/08/02/kafka-listeners-explained/).

Step 1: Download and Start Confluent Platform Using Docker

1. Clone the Confluent Platform Docker Images GitHub Repository and check out the 5.4.0-post branch.

git clone https://github.com/confluentinc/examples 自 cd examples git checkout 5.4.0-post

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3. Start Confluent Platform specifying two options: (-d) to run in detached mode and (--build) to build the Kafka Connect image with the source connector kafka-connect-datagen from Confluent Hub (https://www.confluent.io/connector/kafka-connect-datagen/).

Important

You must allocate a minimum of 8 GB of Docker memory resource. The default memory allocation on Docker Desktop for Mac is 2 GB and must be changed.

docker-compose up -d --build

This starts Confluent Platform with separate containers for all Confluent Platform components. Your output should resemble the following:

Creating network "cp-all-in-one_default" with the default driver 自 Creating zookeeper ... done Creating broker Creating schema-registry ... done Creating rest-proxy done Creating connect done Creating ksql-datagen done Creating ksql-server done Creating control-center done Creating ksql-cli ... done

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4. Optional: Run this command to verify that the services are up and running.

5.4.0 v5.3.2 v5.3.1 Issue: Cannot v**5:**9.6

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Name rts	Command	State	PŒ
broker 29092/tcp,	/etc/confluent/docker/run	Up	0.0.0.0:29092->
092/tcp			0.0.0.0:9092->9
connect 083/tcp,	/etc/confluent/docker/run	Up	0.0.0.0:8083->8
003/ ССР,			9092/tcp
control-center 021/tcp	/etc/confluent/docker/run	Up	0.0.0.0:9021->9
ksql-cli	ksql http://localhost:8088	Up	
ksql-datagen	bash -c echo Waiting for K	Up	
ksql-server 088/tcp	/etc/confluent/docker/run	Up	0.0.0.0:8088->8
rest-proxy 082/tcp	/etc/confluent/docker/run	Up	0.0.0.0:8082->8
schema-registry 081/tcp	/etc/confluent/docker/run	Up	0.0.0.0:8081->8
zookeeper	/etc/confluent/docker/run	Up	0.0.0.0:2181->2
181/tcp,			2888/tcp, 3888/
tcp			, , , , , , , , , , , , , , , , , , , ,

If the state is not Up, rerun the docker-compose up -d command.

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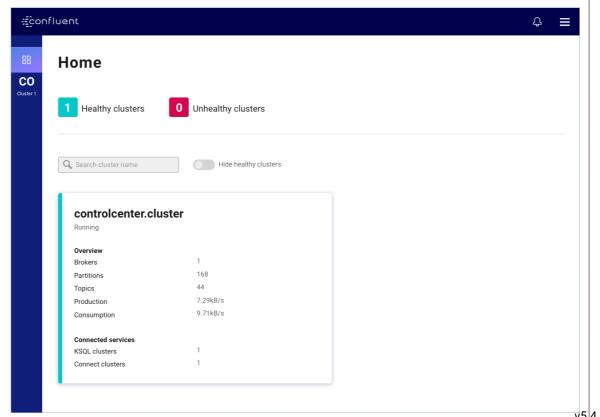
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monitoring production data pipelines and event streaming applications.

1. Navigate to the Control Center web interface at http://localhost:9021/ (http://localhost:9021/) and select your cluster.

Important

It may take a minute or two for Control Center to come online.



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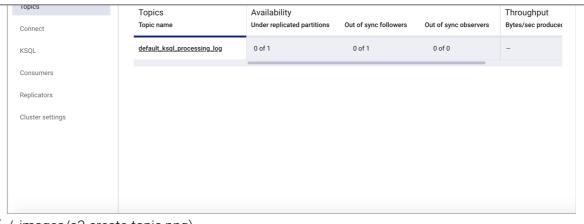
v5.3.2 v5.3.1 Issue: Cannot

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(../_images/c3-create-topic.png)

3. Create a topic named pageviews and click **Create with defaults**.

ONTROLCENTER.CLUST	ALL TOPICS >	
verview	New topic	
rokers		
opics	Topic name* — pageviews	TOPIC SUMMARY
Connect	Number of partitions* ①	name pageviews
KSQL	1	partitions
Consumers	Create with defaults Customize settings Cancel	replication.factor
Replicators		cluster
Cluster settings		controlcenter.cluster
		min.insync.replicas
		cleanup.policy delete
		retention.ms
		604800000 retention.bytes

(../_images/c3-create-topic-name.png)

4. Repeat the previous steps and create a topic named users and click Create with defaults.

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Step 3: Install a Kafka Connector and **Generate Sample Data**

In this step, you use Kafka Connect to run a demo source connector called

kafka-connect-datagen that creates sample data for the Kafka topics pageviews and users.

1 Tip

The Kafka Connect Datagen connector was installed automatically when you started Docker Compose with the --build argument in Step 1: Download and Start Confluent Platform Using Docker. If you encounter issues locating the Datagen Connector, refer to the Issue: Cannot locate the Datagen Connector in the Troubleshooting section.

- 1. Run one instance of the Kafka Connect Datagen (https://www.confluent.io/connector/kafkaconnect-datagen/) connector to produce Kafka data to the pageviews topic in AVRO format.
 - 1. From your cluster, click **Connect**.
 - 2. Select the connect-default cluster and click **Add connector**.
 - 3. Find the DatagenConnector tile and click Connect.

9 Tip

To narrow displayed connectors, click **Filter by type** -> **Sources**.

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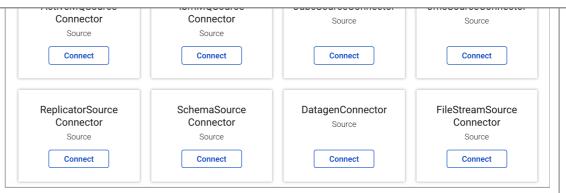
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(../_images/connect-page-new-source.png)

- 4. Name the connector datagen-pageviews. After naming the connector, new fields appear. Scroll down and specify the following configuration values:
 - In the **Key converter class** field, type org.apache.kafka.connect.storage.StringConverter
 - In the **kafka.topic** field, type pageviews .
 - In the **max.interval** field, type 100.
 - In the **iterations** field, type 1000000000
 - In the **quickstart** field, type pageviews

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How should we connect to your data? Transforms Error Handling io.confluent.kafka.connect.datagen.DatagenConnector General **Additional Properties** datagen-pageviews Common Key converter class ① org.apache.kafka.connect.storage.StringConverter

(../_images/connect-configure-pageviews.png)

- Click Continue.
- 6. Review the connector configuration and click Launch.

CONNECT CLUSTERS > CONNECT-DEFAULT > CONNECTORS > SOURCES > **Add Connector** 01 SETUP CONNECTION 02 TEST AND VERIFY "name": "datagen-pageviews", "connector.class": "io.confluent.kafka.connect.datagen.DatagenConnector", "key.converter": "org.apache.kafka.connect.storage.StringConverter", "kafka.topic": "pageviews", "max.interval": "100", "iterations": "1000000000" "quickstart": "pageviews' Launch Back Download connector config file

(../_images/connect-review-pageviews.png)

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CONNECT CLUSTERS > CONNECT-DEFAULT > CONNECTORS > **Browse** Sources → Upload connector config file ActiveMQSource **IbmMQSource** JdbcSourceConnector **JmsSourceConnector** Connector Connector Source Source Source Connect Connect Connect Connect ReplicatorSource SchemaSource DatagenConnector FileStreamSource Connector Connector Connector Source Source Source Source Connect Connect Connect Connect (../_images/connect-page-new-source.png)

3. Name the connector datagen-users. After naming the connector, new fields appear. Scroll down and specify the following configuration values:

• In the **Key converter class** field, type org.apache.kafka.connect.storage.StringConverter

- In the **kafka.topic** field, type users .
- In the **max.interval** field, type 1000
- In the **iterations** field, type 1000000000
- In the quickstart field, type users .

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Add Connector

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Common How should we connect to your data? Transforms io.confluent.kafka.connect.datagen.DatagenConnector **Error Handling** General **Additional Properties** datagen-users Common - Key converter class ① org.apache.kafka.connect.storage.StringConverter

(../_images/connect-configure-users.png)

- 4. Click Continue.
- 5. Review the connector configuration and click **Launch**.

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```
"name": "datagen-users",
"connector.class": "io.confluent.kafka.connect.datagen.DatagenConnector",
"key.converter": "org.apache.kafka.connect.storage.StringConverter",
"kafka.topic": "users",
"max.interval": "1000",
"iterations": "1000000000"
"quickstart": "users"
 Launch
                  Back
                            Download connector config file
```

(../_images/connect-review-users.png)

Step 4: Create and Write to a Stream and Table using KSQL

In this step, KSQL queries are run on the pageviews and users topics that were created in the previous step. The KSQL commands are run using the KSQL tab in Control Center.

1 Tip

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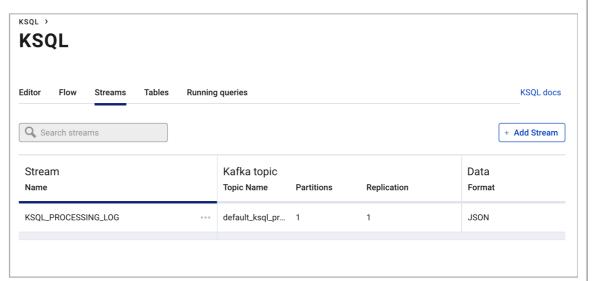
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Create Streams and Tables

In this step, KSQL is used to create a stream for the pageviews topic, and a table for the users topic.

- 1. From your cluster, click **KSQL** and choose the **KSQL** application.
- 2. From the **KSQL EDITOR** page, click the **Streams** tab and **Add Stream**.



(../_images/ksql-interface-create-stream2.png)

3. Select the pageviews topic.

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Create a KSQL Stream

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(../_images/c3-ksgl-

pageviews users Cancel

create-stream-pageview.png)

- 4. Choose your stream options:
 - In the **Encoding** field, select AVRO.
 - In the Field(s) you'd like to include in your STREAM field, ensure fields are set as follows:
 - viewtime With type BIGINT
 - userid With type VARCHAR
 - pageid with type VARCHAR

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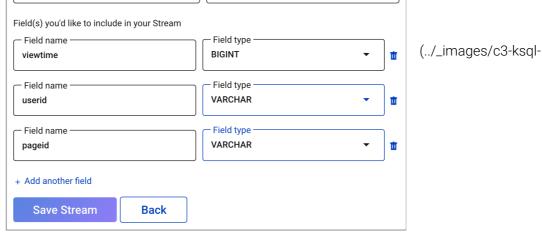
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create-stream-pageview-2.png)

- 5. Click Save Stream.
- 6. Click the **Tables** tab -> **Add a Table** and select the users topic.

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(../_images/c3-ksgl-

pageviews users Cancel

create-stream-users.png)

7. Choose your table options:

- In the **Encoding** field, select AVRO.
- In the **Key** field, select userid.
- In the Field(s) you'd like to include in your TABLE field, ensure fields are set as follows:
 - registertime | With type | BIGINT
 - userid with type VARCHAR
 - regionid with type VARCHAR
 - gender | with type | VARCHAR

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BIGINT registertime Ù Field type Field name VARCHAR userid Ù Field type Field name VARCHAR **T** regionid Field type Field name gender VARCHAR Ù + Add another field Save Table **Back**

create-table-users.png)

8. Click Save Table.

Write Queries

These examples write queries using the **KSQL** tab in Control Center.

- 1. From your cluster, click **KSQL** and choose the **Editor** page.
- 2. From the **KSQL EDITOR** page, click **Add query properties** to add a custom query property. Set the auto.offset.reset parameter to earliest.

This instructs KSQL queries to read all available topic data from the beginning. This configuration is used for each subsequent query. For more information, see the KSQL Configuration Parameter Reference (../ksql/docs/installation/server-config/configStart (Docker)

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v5.3.2 v5.3.1 Issue: Cannot

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Start (Docker) query-properties.png) Step 1: Download and 3. Run the following queries. Start Confluent Platform Using Docker 1. Create a non-persistent query that returns data from a stream with the results limited to a maximum of three rows. Step 2: Create Kafka **Topics** SELECT pageid FROM pageviews EMIT CHANGES LIMIT 3; Step 3: Install a Kafka Your output should resemble: Connector and Generate Sample Data Data structure Q Filter by keyword Step 4: Create and STREAM Write to a Stream and Total messages Table using KSQL PAGEID Newest Messages/sec Create Streams and Page_39 **Tables** Page_35 Total message bytes Write Queries Page_90 Message fields Step 5: Monitor PAGEID Consumer Lag (../_images/c3-ksql-query-results-pageid.png) Step 6: Stop Docker Expand Content Troubleshooting Tip v5.3.2 v5.3.1

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STREAM Total messages {"PAGEID": "Page_39"} 34194 Messages/sec {"PAGEID": "Page_35"} 19.26 Total message bytes 970849 {"PAGEID": "Page_90"} Message fields PAGEID

(../_images/c3-ksql-query-results-pageid-card.png)

2. Create a persistent query that filters for female users. The results from this query are written to the Kafka PAGEVIEWS FEMALE topic. This query enriches the pageviews STREAM by doing a LEFT JOIN with the users TABLE on the user ID, where a condition gender = 'FEMALE') is met.

CREATE STREAM pageviews female AS SELECT users.userid AS userid, page in , regionid, gender FROM pageviews LEFT JOIN users ON pageviews.userid = users.userid WHERE gender = 'FEMALE';

Your output should resemble:

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(../_images/c3-ksqi-persist-query-pv-remaie-resuits.png)

3. Create a persistent query where a condition (regionid) is met, using LIKE. Results from this query are written to a Kafka topic named pageviews enriched r8 r9.

```
CREATE STREAM pageviews female like 89 WITH (kafka topic='pageviews enter
iched r8 r9', value format='AVRO') AS SELECT * FROM pageviews female WH
ERE regionid LIKE '% 8' OR regionid LIKE '% 9';
```

Your output should resemble:

```
"statementText": "CREATE STREAM naneviews female like 89 WITH (kafka tonic='naneviews enriched r8 r9' value format='AVRO') AS SELECT * FROM naneviews female WHERE
   "message": "Stream created and running
```

(../_images/c3-ksgl-persist-query-pv-female89-results.png)

4. Create a persistent guery that counts the pageviews for each region and gender combination in a tumbling window (../streams/developer-guide/dsl-api.html#windowingtumbling) of 30 seconds when the count is greater than 1. Because the procedure is grouping and counting, the result is now a table, rather than a stream. Results from this query are written to a Kafka topic called PAGEVIEWS REGIONS

CREATE TABLE pageviews_regions AS SELECT gender, regionid , COUNT(*) 45 numusers FROM pageviews female WINDOW TUMBLING (size 30 second) GROUP B Y gender, regionid HAVING COUNT(*) > 1;

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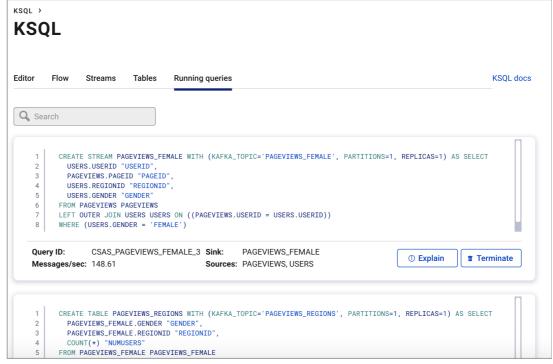
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(../_images/c3-ksql-persist-query-table-results.png)

5. Click **Running queries**. You should see the following persisted queries:



(../_images/c3-ksql-persistent-query1.png)

6. Click Editor. On the right side of the page, find the All available streams and tables pane, which shows all of the streams and tables that you can access.

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St PAGEVIEWS_FEMALE

St PAGEVIEWS_FEMALE_LIKE_89

Tb PAGEVIEWS_REGIONS

Tb USERS

(../_images/co-ksqi-stream-table-view-r.png)

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7. In the All available streams and tables section, click KSQL_PROCESSING_LOG to view

the stream's schema, including nested data structures.

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LEVEL

TIME

MESSAGE

TYPE

DESERIALIZATIONERROR

ERRORMESSAGE

RECORDB64

CAUSE

RECORDPROCESSINGERROR

ERRORMESSAGE

RECORD

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v5.3.2 v5.3.1 Issue: Cannot

(https://docs.confluent.io)

(../_images/c3-ksgl-stream-table-view-2.png)

Step 5: Monitor Consumer Lag

Navigate to the **Consumers** tab to view the consumers created by KSQL.

Click the consumer group ID to view details for the

_confluent-ksql-default_query_CSAS_PAGEVIEWS_FEMALE_3 | CONSUMEr group.

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KSQL	_confluent-ksql-default_transient_1066612431368908040_15	0	1
Consumers	confluent-ksql-default_query_CSAS_PAGEVIEWS_FEMALE_3	2	3
Replicators	_confluent-ksql-default_query_CSAS_PAGEVIEWS_FEMALE_LI	1	1
Cluster settings	confluent-ksql-default_transient_283502623438562816_157	0	1
	confluent-ksql-default_transient_8724520964753363704_15	0	1
	_confluent-controlcenter-5-4-0-1	8	15
	confluent-ksql-default_query_CTAS_PAGEVIEWS_REGIONS_5	2	2
	_confluent-controlcenter-5-4-0-1-command	1	1

(../_images/ksql-interface-monitor.png)

From this page you can see the consumer lag and consumption values for your streaming query.

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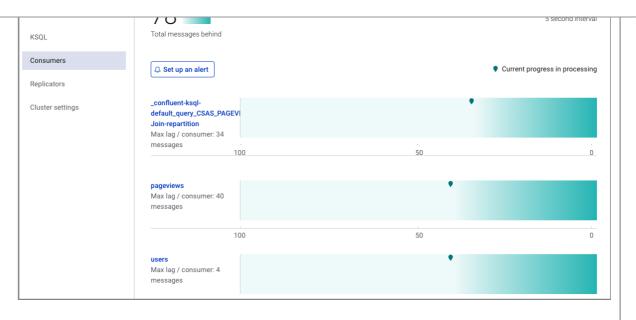
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(../_images/ksql-interface-monitor-cnsmgp.png)

For more information, see the Control Center Consumers (../control-center/consumers.html#controlcenter-userguide-consumers) documentation.

Step 6: Stop Docker

When you are done working with Docker, you can stop and remove Docker containers and images.

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2. Run the following command to stop the Docker containers for Confluent:

docker container stop \$(docker container ls -a -q -f "label=io.confluent.囯 ocker")

3. Run the following commands to stop the containers and prune the Docker system. Running these commands deletes containers, networks, volumes, and images; freeing up disk space:

docker container stop \$(docker container ls -a -q -f "label=io.confluent.**性**) ocker") && docker system prune -a -f --volumes

Tip

Remove the filter label for Confluent Docker (-f "label=io.confluent.docker") to clear all Docker containers from your system.

You can rebuild and restart the containers at any time using the docker-compose up -d --build command.

For more information, refer to the official Docker (https://docs.docker.com/) documentation.

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Issue: Cannot locate the Datagen Connector **Resolution:** Make sure to run the docker-compose command with the --build option: Ē docker-compose up -d --build For details, see Step 1: Download and Start Confluent Platform Using Docker. **Resolution:** Run the build command just for connect. docker-compose build --no-cache connect Ē Your output should resemble: Ė Building connect Completed Removing intermediate container cdb0af3550c8 ---> 36d00047d29b Successfully built 36d00047d29b Successfully tagged confluentinc/kafka-connect-datagen:latest

Resolution: Check the Connect log for Datagen.

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Issue: Cannot

(/currer(t/5q8i2k(stack/stack/stack)

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connect | [2019-04-17 20:03:26,137] INFO Loading plugin from: /usr/share/colluent-hub-components/confluentinc-kafka-connect-datagen (org.apache.kafka.connect.runtime.isolation.DelegatingClassLoader)

connect | [2019-04-17 20:03:26,206] INFO Registered loader: PluginClassLoader {pluginLocation=file:/usr/share/confluent-hub-components/confluentinc-kafka-connect-datagen/} (org.apache.kafka.connect.runtime.isolation.DelegatingClassLoader)

connect | [2019-04-17 20:03:26,206] INFO Added plugin 'io.confluent.kafka.con
nect.datagen.DatagenConnector' (org.apache.kafka.connect.runtime.isolation.Del
egatingClassLoader)

connect | [2019-04-17 20:03:28,102] INFO Added aliases 'DatagenConnector' and
'Datagen' to plugin 'io.confluent.kafka.connect.datagen.DatagenConnector' (org
.apache.kafka.connect.runtime.isolation.DelegatingClassLoader)

Resolution: Check the Connect log for a warning and reminder to run the

docker-compose up -d --build command properly.

docker-compose logs connect | grep -i Datagen

直

If the following warning is present, re-run the docker-compose up -d --build command:

connect | WARNING: Did not find directory for kafka-connect-datagen (did yo remember to run: docker-compose up -d --build?)

Resolution: Verify the .jar file for kafka-connect-datagen has been added and is present in the lib subfolder.

docker-compose exec connect ls /usr/share/confluent-hub-components/confluent c-kafka-connect-datagen/lib/

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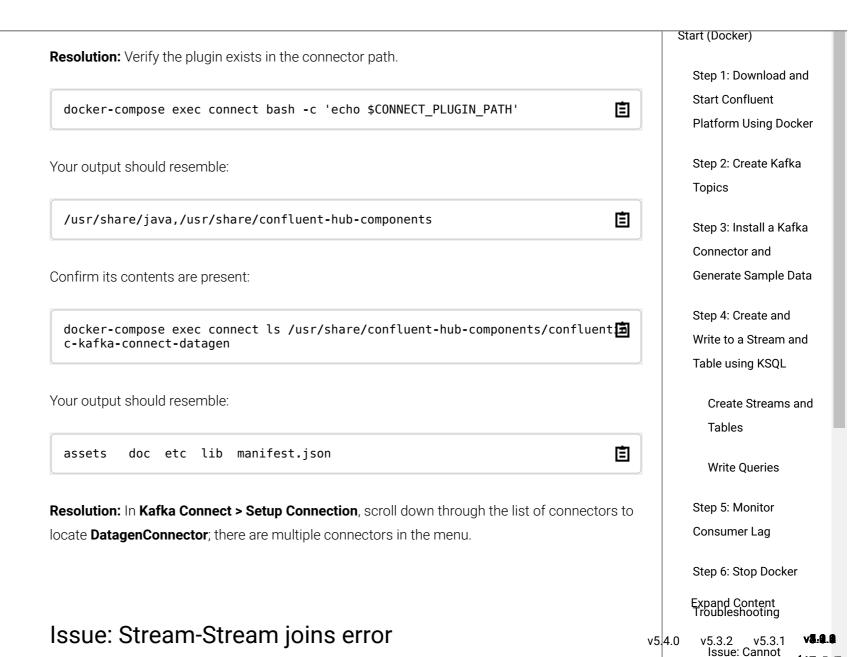
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(../_images/c3-ksql-stream-stream-join-error.png)

Resolution: Ensure that you created a *stream* for pageviews, and a *table* for users in Step 4: Create and Write to a Stream and Table using KSQL.

Issue: Unable to successfully complete KSQL query steps

Java errors or other severe errors were encountered.

Resolution: Ensure you are on an Operating System (../installation/versionsinteroperability.html#operating-systems) currently supported by Confluent Platform. Start (Docker)

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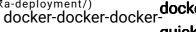
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Next Steps

Learn more about the components shown in this quick start:

- KSQL documentation (../ksql/docs/index.html#ksql-home) Learn about processing your data with KSQL for use cases such as streaming ETL, real-time monitoring, and anomaly detection. You can also learn how to use KSQL with this collection of scripted demos (https://github.com/confluentinc/examples).
- Stream Processing Cookbook (https://www.confluent.io/stream-processing-cookbook/) Try out in-depth KSQL tutorials and recommended deployment scenarios.
- Kafka Streams documentation (../streams/index.html#kafka-streams) Learn how to build stream processing applications in Java or Scala.
- Kafka Connect documentation (../connect/index.html#kafka-connect) Learn how to integrate Kafka with other systems and download ready-to-use connectors (https://www.confluent.io/product/connectors/) to easily ingest data in and out of Kafka in real-time.
- Kafka Clients documentation (../clients/index.html#kafka-clients) Learn how to read and write data to and from Kafka using programming languages such as Go, Python, .NET, C/C++.
- Videos, Demos, and Reading Material (../tutorials/index.html#tutorials) Try out the Confluent Platform tutorials and examples, watch demos and screencasts, and learn with white papers and blogs.

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Last updated on Feb 26, 2020.

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