

Using Kafka Connect Connectors with Conduit

The [Conduit Kafka Connect Wrapper connector](#) is a special connector that allows you to use [Kafka Connect](#) connectors with Conduit. Conduit doesn't come bundled with Kafka Connect connectors, but you can use it to bring any Kafka Connect connector with Conduit.

This connector gives you the ability to:

- Easily migrate from Kafka Connect to Conduit.
- Remove Kafka as a dependency to move data between data infrastructure.
- Leverage a datastore if Conduit doesn't have a native connector.

Since the Conduit Kafka Connect Wrapper itself is written in Java, but most of Conduit's connectors are written in Go, it also serves as a good example of the flexibility of the Conduit Plugin SDK.

Let's begin.

How it works

To use the Kafka Connect wrapper connector, you'll need to:

1. Download the [conduit-kafka-connect-wrapper](#)
2. latest release,
3. at the time of writing this, we'll go with [v0.4.3](#)
4. and download the file `conduit-kafka-connect-wrapper-v0.4.3.zip`
5. .
6. Download Kafka Connect JARs and any dependencies you would like to add.
7. Create a pipeline configuration file.
8. Run Conduit.

Setup

To begin, download the [conduit-kafka-connect-wrapper latest release](#) , at the time of writing this, we'll go with `v0.4.3` and download the file `conduit-kafka-connect-wrapper-v0.4.3.zip` .

Downloading the release is our preferred option to get the connector JAR. However, another option to get the JAR file is to build it from source, this could be useful in case you added your own changes to the connector and wanted to test them out, to do that we will clone the connector:

`git clone \[email protected\] :ConduitIO/conduit-kafka-connect-wrapper.git` Then, we need to build the connector. The Kafka Connect wrapper connector is written in Java, so it needs to be compiled.

```
cd conduit-kafka-connect-wrapper
```

`./scripts/dist.sh` Running `scripts/dist.sh` will create a directory called `dist` with following contents:

1. A script (which runs the connector). This script starts a connector instance.
2. Directory `libs`
3. . This is where you add the connector JAR itself, and put the Kafka connector JARs and their dependencies (if any).

Now that we have everything setup, we can add the Kafka Connect connectors.

Download a connector and its dependencies

The `libs` directory is where you put the Kafka Connect connector JARs and their dependencies (if any). The wrapper plugin will automatically load connectors and all the other dependencies from `libs` directory.

To download a connector from a Maven repository and all of its dependencies, you can use `scripts/download-connector.sh` . For example:

```
./scripts/download-connector.sh io.example.jdbc-connector 2.1 .3
```

 For usage, run `./scripts/download-connector.sh --help` .

You can also download them manually if needed, we will use the PostgreSQL Kafka Connect JDBC Connector. To install, add the following:

- [Aiven's Kafka Connect JDBC Connectors](#)
- [Postgres Connector JAR](#)

This connector allows you to connect to any [JDBC database](#) .

Create Pipeline Configuration File

Now that the Kafka Connect connectors included in lib , we can use it in a pipeline configuration file.

1. [Install Conduit](#)
2. .
3. Create a pipeline configuration file: Create a folder called pipelines
4. at the same level as your Conduit
5. binary. Inside of that folder create a file named jdbc-to-file.yml
6. , check [Specifications](#)
7. for more details about Pipeline Configuration Files.

version :

2.0 pipelines : -

id : kafka - connect - pipeline status : running description : This pipeline is for testing connectors : -

id : jdbc - kafka - connect type : source plugin : standalone : conduit - kafka - connect - wrapper settings :
wrapper.connector.class :

"io.aiven.connect.jdbc.JdbcSourceConnector" , connection.url :

"jdbc:postgresql://localhost/conduit-test-db" , connection.user :

"username" , connection.password :

"password" , incrementing.column.name :

"id" , mode :

"incrementing" , tables :

"customers" , topic.prefix :

"my_topic_prefix"

id : file - dest type : destination plugin : builtin : file settings : path :

"path/to/the/file.txt" 1. Run Conduit! And see how simple it is to migrate to Conduit.

Note that the wrapper.connector.class should be a class which is present on the classpath, i.e. in one of the JARs in the libs directory. For more information, check the [Wrapper Configuration](#) section. [Edit this page](#) [Previous Connector Lifecycle](#) [Next Getting Started](#)