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debezium/server ☆14

Pulls 10M+

By debezium • Updated 22 minutes ago

Debezium Server is a stand-alone runtime for Debezium connectors.

IMAGE

Overview Tags

What is Debezium?

Debezium is a distributed platform that turns your existing databases into event streams, so applications can quickly react to each row-level change in the databases.

What is Debezium Server?

Debezium can be deployed either as connector instances in a Kafka Connect cluster, or as a standalone application - Debezium Server. Debezium Server is a Quarkus-based high-performance application that streams data from database to a one of supported sinks or a user developed sink.

Debezium Server supports multiple converters to provide different output message formats.

How to use this image

The image requires as a dependency source and sink systems to read data from and write output messages to.

The application itself can be configured either via environment variables or via `appliaction.properties` injected into the container via a volume.

Starting an instance of Debezium Server using this container image is simple:

```
$ docker run -it --name debezium -p 8080:8080 -v $PWD/conf:/debezium/conf -v $PWD/data:/debezium/data debezium/server
```

Example

If you want to try the image yourself then please follow the steps to establish the necessary environment.

Start PostgreSQL source database:

```
$ docker run -d --name postgres -p 5432:5432 -e POSTGRES_USER=postgres
-e POSTGRES_PASSWORD=postgres debezium/example-postgres
```

Start Apache Pulsar sink:

```
$ docker run -d --name pulsar -p 6650:6650 -p 7080:8080 apachepulsar/pu
lsar:2.5.2 bin/pulsar standalone
```

Wait for Pulsar sink to start:

```
$ docker logs -f pulsar
```

Prepare Debezium Server deployment:

```
    $ mkdir {data,conf}; chmod 777 {data,conf}
    $ cat <<-EOF > conf/application.properties
debezium.sink.type=pulsar
debezium.sink.pulsar.client.serviceUrl=pulsar://pulsar:6650
debezium.source.connector.class=io.debezium.connector.postgresql.Postgr
esConnector
debezium.source.offset.storage.file.filename=data/offsets.dat
debezium.source.offset.flush.interval.ms=0
debezium.source.database.hostname=postgres
debezium.source.database.port=5432
debezium.source.database.user=postgres
debezium.source.database.password=postgres
debezium.source.database.dbname=postgres
debezium.source.database.server.name=tutorial
debezium.source.schema.whitelist=inventory
debezium.source.plugin.name=pgoutput
EOF
```

Note that the configuration file can be replaced with environment variables where every property translates to uppercase and dots are replaced with underscore, e.g. `debezium.sink.type` becomes `DEBEZIUM_SINK_TYPE` .

Start the Debezium Server:

```
$ docker run -it --name debezium -p 8080:8080 -v $PWD/conf:/debezium/co
nf -v $PWD/data:/debezium/data --link postgres --link pulsar debezium/s
erver
```

Environment variables

The Debezium Server image uses several environment variables to configure JVM and source/sink when running this image.

`JAVA_OPTS`

This environment variable is passed to command line when `java` command is invoked. It could be used to tune memory settings etc.

`DEBEZIUM_OPTS`

This environment variable is used in the same way as `JAVA_OPTS` and servers only for logical separation of Debezium Server specific settings.

Source/sink Configuration options

All configuration options that could be present in `application.properties` can be either added or overridden via environment variables. This is enabled by using MicroProfile Config in Debezium Server.

Ports

Containers created using this image will expose port `8080`, which is the standard port to access MicroProfile Health endpoint.

Volumes

The container image exposes two volumes:

`/debezium/conf`

In this volume the configuration files (mostly `application.properties`) are located.

`/debezium/data`

In this volume the data files (mostly file offset storage) are located.

Docker Pull Command

```
docker pull debezium/server
```

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docker

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