

Cloudera Stream Processing Community Edition 2.0.0

## Release Notes

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# CLOUDERA

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# What's new in Cloudera Streaming Community Edition

Learn about the new features of Cloudera Streaming Community Edition.

## January 2023

Notable changes, improvements, and new features for Streams Messaging and Streaming Analytics components in the January 2023 release.

### Streams Messaging

What's new in Kafka, Kafka Connect, Schema Registry and Streams Messaging Manager.

#### Kafka and Kafka Connect

##### Kafka rebase to 3.1.2

Kafka shipped in this version of Cloudera Streaming Community Edition is based on Apache Kafka 3.1.2 (previous version was 2.8.1). For more information, see the official [Apache Kafka documentation](#).

##### New Kafka Connect connectors

The following new Kafka connect connectors are introduced:

- HDFS Stateless Sink
- Influx DB Sink
- Debezium Db2 Source



**Important:** If you want to deploy an instance of the Debezium Db2 Source connector, ensure that you first install the Db2 JDBC driver. For more information, see [Setting up connectors that use JDBC drivers](#).

##### Syslog TCP Source connector 2.0.0.

The Syslog TCP Source Kafka Connect connector is updated to version 2.0.0. The following notable changes and improvements are made:

- Three new properties are added, these are as follows:
  - Max Batch Size

This property controls the maximum number of messages to add to a single batch of messages. This is a required property. Its default value is 1.

- Authorized Issuer DN Pattern and Authorized Subject DN Pattern

These properties allow you to enable authorization for incoming TLS connections. Both properties accept regular expressions as a value. The configured regular expressions are applied against the Distinguished Names of incoming TLS connections. If the Distinguished Names do not match the pattern, the following message is logged and the messages do not get forwarded to Kafka.

```
Error: authorization failure
```

Both properties are optional and are set to .\* by default.

- The Max Number of TCP Connections property is replaced by the Max Number of Worker Threads property.

Similarly to Max Number of TCP Connections, Max Number of Worker Threads is also used to specify the number of TCP connections, but instead of exactly specifying the number

of allowed connections, you now specify how many worker threads are reserved for TCP connections. Note that a single worker thread is capable of handling multiple connections. This is a required property. Its default value is 2.

- Existing version 1.0.0. connectors will continue to function. Upgrading them, however, is not possible. If you want to use the new version of the connector, you must deploy a new instance of the connector.
- Deploying a version 1.0.0. instance of the connector is no longer possible.

### **AvroConverter support for KConnect logical types**

The AvroConverter now converts between Connect and Avro temporal and decimal types.

### **Expose log directory total and usable space through the Kafka API**

[KAFKA-13958](#) is backported in Kafka shipped with this version of Cloudera Streaming Community Edition. As a result, the Kafka API now exposes metrics regarding the total and usable disk space of log directories. The information on log directory space is collected by Streams Messaging Manager and is exposed Streams Messaging Manager UI. Specifically, you can now view the current log size of topics as well as the total log size and remaining storage space of brokers. For more information on how you can monitor log size metrics on the Streams Messaging Manager UI, see [Monitoring log size information](#) in the Cloudera Runtime library.

### **Schema Registry**

#### **Support for alternative jersey connectors in SchemaRegistryClient**

`connector.provider.class` can be configured in Schema Registry Client. If it is configured, `schema.registry.client.retry.policy` should also be configured to be different than default.

This also fixes the issue with some 3rd party load balancers where the client is expected to follow redirects and authenticate while doing that.

#### **Schema Registry CDC support - change default schema compatibility**

When a new Avro schema is created and its compatibility is not explicitly set, then a default compatibility value is used. Until now, that value was always BACKWARD. After this change, users on the server side can configure the default value.

### **Streams Messaging Manager**

#### **Improved alter topic functionalities**

You can now increase the number of partitions of a topic (but not decrease). The option is available on the Configs tab on the Topic Details page.

#### **Partition Assignment tab on the Topic Details page**

The Assignment tab, on the topic details page, shows the current state of the partitions and replicas of the topic. It shows some topic-level statistics and the replica assignment of all partitions.

#### **Added sorter functionality to partition lists in Streams Messaging Manager UI**

The Streams Messaging Manager UI contains Brokers and Topics pages where records contain broker or topic specific partition lists and their profile pages as well. All partition list columns become sortable.

#### **Improved Streams Messaging Manager UI for Kafka Connectors configuration**

The connector selection and connector configuration workflow steps are now separated into two different steps. Search and autocomplete are now available for Connect configuration keys. The help icon provides detailed information about each configuration key. The data type of the configuration values can be chosen from the options menu. For more information, see [Setting connector configurations](#) in the Cloudera Runtime library.

#### **Added partition log-size information to the Streams Messaging Manager UI**

The Streams Messaging Manager UI shows log-size related information about brokers, topics, and partitions. Furthermore, warning messages appear when log directory related errors are reported by Kafka.

#### **Streams Messaging Manager connector profile shows connector level error**

Errors causing the whole connector to fail are now displayed on the connector profile page if available.

#### **Data explorer allows specifying consumer isolation.level**

`"/api/v1/admin/topics/{topicName}/partition/{partitionId}/payloads"` endpoint has a new parameter: `"consumerIsolationLevel"`. The accepted values are `"read_committed"` and `"read_uncommitted"`. This sets the `"isolation.level"` config for the `KafkaConsumer` used for retrieving messages. The default value is `"read_uncommitted"`. The isolation level can also be configured using a newly introduced drop-down menu available on the Data Explorer page of a topic.

#### **The Data Explorer page has a new design**

The Data Explorer now uses the “from offset” and “record limit” parameters to select an offset window to query.

#### **Streams Messaging Manager UI Data Explorer shows null values explicitly**

Data Explorer in the Streams Messaging Manager UI now displays 'null' with italic style applied when the value is null rather than an empty value.

#### **Streams Messaging Manager uses a specific REST API to fetch list of topics**

Streams Messaging Manager Connect page now uses the Connect active topic tracking feature to list the topics used by the Connectors instead of the connector configuration's topic property. Sink Connectors show up based on which topics they consumed from (regardless of whether `"topics"` or `"topics.regex"` config was used), and Source Connectors show up based on which topics they produced into.

#### **Improved configuration of Streams Messaging Manager Kafka interceptors**

New configuration prefix for Streams Messaging Manager monitoring interceptor's background producer: `"smm.monitoring.interceptor.producer."`.

Clients that use either of the Streams Messaging Manager monitoring interceptors (`MonitoringConsumerInterceptor`, `MonitoringProducerInterceptor`) use a background producer to push client metrics into Kafka every 30 seconds. This background producer now can be configured by passing Producer Configurations to the client that uses the interceptor with the `"smm.monitoring.interceptor.producer."` prefix. The prefix is trimmed and the remaining part of the configuration is passed to the background producer. For instance, if the user wishes to configure the `"batch.size"` property for the background producer, the following configuration should be passed: `"smm.monitoring.interceptor.producer.batch.size"`.

There is a different behavior, however, with the `"client.id"` property. If the user does not provide a configuration to the client id (`smm.monitoring.interceptor.producer.client.id`), the default is used, which is: `"smm-monitoring-interceptor"`.

#### **Streams Messaging Manager Data Explorer shows JSON output in pretty printed format**

Streams Messaging Manager Data Explorer can show JSON output in pretty printed format by using the `"JSON Pretty Print"` deserializer.

#### **Related Information**

[Cloudera Runtime 7.2.16 Release Notes](#)

## **Cloudera Streaming Analytics**

What's new in Cloudera Streaming Analytics.

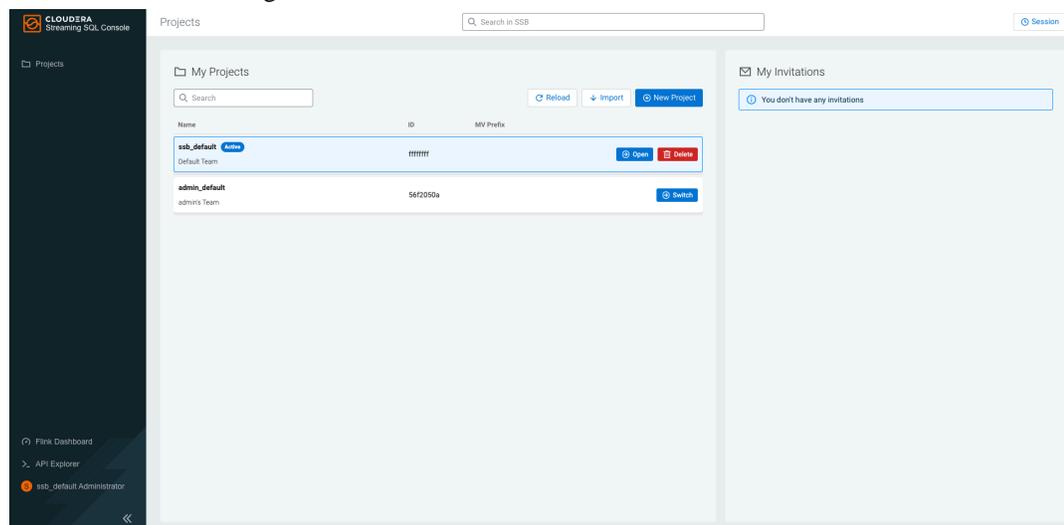
#### **Apache Flink upgrade**

Apache Flink 1.15.1 is supported in the Cloudera Streaming Analytics 7.2.16 cluster definition.

For more information on what is included in the Apache Flink 1.15 version, see the [Apache Flink 1.15.1 Release Post](#) and the [Apache Flink 1.15 Release Notes](#)

### Reworked Streaming SQL Console

The User Interface (UI) of Cloudera SQL Stream Builder, the Streaming SQL Console has been reworked with new design elements.



### Software Development Lifecycle (SDLC) support

Projects are introduced as an organizational element for Cloudera SQL Stream Builder that allows you to create and collaborate on SQL jobs throughout the SDLC stages with source control.



**Note:** The Source Control features are in Technical Preview and not ready for production deployment. Cloudera encourages you to explore these features in non-production environments and provide feedback on your experiences through the *Cloudera Community Forums*.

### Schema Registry JSON support

JSON is added as a supported data format for Schema Registry.

### Materialized View pagination

You can set a limit and offset for the results of Materialized View queries to filter the query results more easily when accessing them through the Query API.

### Related Information

[Cloudera Streaming Community Edition Overview](#)

[Cloudera Streaming Community Edition Installation Guide](#)

## July 2022

What's new in Cloudera Streaming Community Edition July 2022.

This is the GA release of Cloudera Streaming Community Edition.

The Cloudera Streaming Community Edition makes developing stream processors easy as it can be done right from your desktop or any other development node. Analysts, data scientists, and developers can now evaluate new features, develop SQL-based stream processors locally using Cloudera SQL Stream Builder powered by Flink, and develop Kafka Consumers/Producers and Kafka Connect Connectors, all locally before moving to production.

## Component support

Learn about the supported product and component version in Cloudera Streaming Community Edition.

Product version	Component version
Cloudera Runtime 7.2.16	Apache ZooKeeper 3.5.5
Streams Messaging 7.2.16	Apache Kafka 3.1.2
	Streams Messaging Manager 2.3.0
	Schema Registry 0.10.0
Cloudera Streaming Analytics 7.2.16	Apache Flink 1.15.1

### Related Information

[Cloudera Runtime documentation](#)

[Streams Messaging documentation](#)

[Cloudera Streaming Analytics documentation](#)

## Limitations

Learn about the limitations, and the impacts or changes to the functionality of components in Cloudera Streaming Community Edition.



**Important:** Cloudera Streaming Community Edition is an unsecured deployment of Cloudera Streams Messaging and Streaming Analytics. The security features available in Apache Kafka, Apache Flink, Cloudera SQL Stream Builder, Schema Registry, and Streams Messaging Manager are not supported. In addition, support services are not provided for Cloudera Streaming Community Edition. As a result, Cloudera Streaming Community Edition is not meant for the requirements to be used in production.

### Streams Messaging

#### Kafka

Kafka producers have a quota of 100000 bytes per second. This means that producers get throttled if they reach this threshold.

#### Schema Registry

Schema Registry is limited to a maximum of 50 schemas.

### Cloudera Streaming Analytics

#### Cloudera SQL Stream Builder

- Only 3 SQL jobs can be run simultaneously.
- Hive catalog is not supported.
- Iceberg integration is not supported.
- Logging customization under Advanced Settings is not supported.
- Job Notification is not supported.
- All jobs are submitted to the same standalone cluster.
- Storage option is only the docker volumes.