

Cloudera Streaming Analytics 1.16.0

Release Notes

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CLOUdera

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What's new in Cloudera Streaming Analytics

Cloudera Streaming Analytics 1.18.0 covers new features beside the core streaming functionality of Apache Flink and SQL Stream Builder.

Cloudera platform support

Cloudera Streaming Analytics 1.18.0 is supported on Cloudera on premises 7.3.2.10000. Review the [7.3.2.10000 Release Notes](#) and [Support Matrix](#) to understand which operating system, database, and JDK versions are supported for Cloudera Streaming Analytics as well.

Apache Flink 1.20.5

Cloudera Streaming Analytics 1.18.0 upgrades the underlying Apache Flink runtime to 1.20.5.

Apache Iceberg 1.10.0

The Iceberg connector and catalog integration in Cloudera Streaming Analytics are updated to Apache Iceberg 1.10.0. Update custom jobs and Maven dependencies that reference Iceberg artifacts to the Cloudera Streaming Analytics 1.18.0 Maven artifact versions.

Git source control improvements for Cloudera SQL Stream Builder

Cloudera SQL Stream Builder source control now supports selective commits, so you can push only the jobs, tables, UDFs, and other assets you choose instead of the entire project. Import from Git also shows a change review before changes are applied to your local project.

For more information, see [Source control of a project](#) and [Selective commits and import review](#).

Securing Flink services with TLS

New documentation describes how to enable TLS for Flink external REST endpoints when clients connect directly to Flink rather than through the YARN proxy or Knox Gateway, and how to configure TLS manually for Flink internal and REST services cluster-wide when Cloudera Manager cannot yet generate Flink keystores.

For more information, see [Securing Flink external REST endpoints with TLS](#) and [Configuring TLS/SSL encryption manually for Flink services](#).

TLS 1.3 for Cloudera Streaming Analytics network endpoints

Cloudera Streaming Analytics services consume the central TLS cipher and protocol settings from Cloudera Manager. Streaming Analytics network endpoints allow TLS 1.3 connections only by default. Clients that use TLS versions earlier than 1.3 are rejected.

For more information, see [Behavioral changes](#).

Fixed issues

Review the list of Flink and Cloudera SQL Stream Builder issues that are resolved in Cloudera Streaming Analytics 1.18.0.

CSA-6213 - Dashboard New Widget form cannot scroll jobs

Previously, long job and data source lists on the New Widget form could not be scrolled, so only the first entries were visible. This issue is now fixed.

CSA-6227 - Kafka Table Viewer does not load all properties

Previously, the Kafka Table Viewer in Cloudera SQL Stream Builder did not display connector and table properties after table creation. This issue is now fixed.

CSA-6267 - StreamTableEnvironment race condition in Cloudera SQL Stream Builder session

Previously, concurrent session updates could leave the StreamTableEnvironment in an inconsistent state and cause follow-up queries such as DESCRIBE to fail. This issue is now fixed.

CSA-6240 - Kerberos encryption types on updated FreeIPA hosts

Previously, Cloudera SQL Stream Builder could fail to authenticate on environments where FreeIPA keytabs included newer AES encryption types. This issue is now fixed.

CSA-5985 - DB2 CDC connector schema-name property not supported in UI

Previously, creating a DB2 CDC table with the schema-name property in Cloudera SQL Stream Builder generated invalid SQL. This issue is now fixed.

CSA-5986 - Custom connectors uploaded in UI not listed

Previously, connectors uploaded through the Cloudera SQL Stream Builder UI were stored on the cluster but did not appear in the UI or connector REST API. This issue is now fixed.

CSA-6220 - Cloudera SQL Stream Builder startup failure in Kerberos-only mode

Previously, Cloudera SQL Stream Builder failed to start in Kerberos-only deployments when TLS was disabled and the default truststore was unset. This issue is now fixed.

Deprecation notices in Cloudera Streaming Analytics 1.18.0

Certain features and functionalities have been removed or deprecated in Cloudera Streaming Analytics 1.18.0. You must review these items to understand whether you must modify your existing configuration. You can also learn about the features that will be removed or deprecated in the future release to plan for the required changes.

Terminology

Items in this section are designated as follows:

Deprecated

Technology that Cloudera is removing in a future Cloudera Streaming Analytics release. Marking an item as deprecated gives you time to plan for removal in a future Cloudera Streaming Analytics release.

Moving

Technology that Cloudera is moving from a future Cloudera Streaming Analytics release and is making available through an alternative Cloudera offering or subscription. Marking an item as moving gives you time to plan for removal in a future Cloudera Streaming Analytics release and plan for the alternative Cloudera offering or subscription for the technology.

Removed

Technology that Cloudera has removed from Cloudera Streaming Analytics and is no longer available or supported as of this release. Take note of technology marked as removed since it can potentially affect your upgrade plans.

Deprecation Notices for Cloudera SQL Stream Builder

Certain features and functionality are deprecated or removed in Cloudera SQL Stream Builder. You must review these changes along with the information about the features in Cloudera SQL Stream Builder that will be removed or deprecated in a future release.

Removed

Removed support for JavaScript UDFs

JavaScript UDF support has been removed from Cloudera Streaming Analytics. You must migrate any legacy JavaScript UDFs to Python UDFs, which are enabled by default.

For more information, see [Adding Python UDFs](#).

Removed Data Transformation for Kafka tables

Data Transformation for Kafka tables (also referred to as input transforms) used JavaScript and was supported only on Java Development Kit (JDK) 11 and lower versions. It has been removed from Cloudera Streaming Analytics 1.18.0 because Cloudera Streaming Analytics runs on Java 17. You must migrate any equivalent logic to Flink SQL or Python UDFs.

For more information, see [Adding Python UDFs](#).

Cloudera SQL Stream Builder v1 REST API

The v1 REST API for Cloudera SQL Stream Builder is removed in Cloudera Streaming Analytics 1.18.0 and later releases. Migrate scripts and integrations to the v2 API.

See the [Cloudera SQL Stream Builder REST API reference](#) for v2 API details.

Known issues and limitations

Learn about the known issues in Flink and Cloudera SQL Stream Builder, the impact or changes to the functionality, and the workaround in Cloudera Streaming Analytics 1.18.0.

Cloudera SQL Stream Builder

CSA-6232 - Setting execution target in SQL statement does not work properly

In Cloudera SQL Stream Builder, using a SET statement to set execution.target to yarn-per-job in the SQL Editor does not work as expected on Cloudera Streaming Analytics 1.13.0 and later. SSB can create both a session cluster and a per-job YARN application for the same job. On secure clusters, this can cause Kerberos authentication errors.

Configure per-job (production) execution in **Job Settings** by selecting PROD - Job runs in isolated Cluster at Execution Mode. Do not rely on SET 'execution.target' = 'yarn-per-job' in the SQL Editor. For more information, see [Executing SQL jobs in production mode](#).

CSA-5733 - Chart or diagram type dashboard widgets do not work when the label field is the same as the data field

When creating a diagram type widget in Cloudera SQL Stream Builder, setting the label and data fields to the same value causes the graph to disappear.

None.

CSA-5732 - MV widget not fetching mv data when authenticated via spnego

When using Cloudera SQL Stream Builder with SPNEGO authentication, creating a Materialized View widget fails with a Data Source Error.

Authenticate through Knox Gateway instead of SPNEGO.

Flink

In Cloudera Streaming Analytics, the following SQL API features are in preview:

- Match recognize
- Top-N
- Stream-Table join (without rowtime input)

DataStream conversion limitations

- Converting between Tables and POJO DataStreams is currently not supported in Cloudera Streaming Analytics.
- Object arrays are not supported for Tuple conversion.
- The java.time class conversions for Tuple DataStreams are only supported by using explicit TypeInformation: LegacyInstantTypeInfo, LocalTimeTypeInfo.getInfoFor(LocalDate/LocalDateTime/LocalTime.class).
- Only java.sql.Timestamp is supported for rowtime conversion, java.time.LocalDateTime is not supported.

Kudu catalog limitations

- CREATE TABLE
 - Primary keys can only be set by the kudu.primary-key-columns property. Using the PRIMARY KEY constraint is not yet possible.
 - Range partitioning is not supported.
- When getting a table through the catalog, NOT NULL and PRIMARY KEY constraints are ignored. All columns are described as being nullable, and not being primary keys.
- Kudu tables cannot be altered through the catalog other than simply renaming them.

Schema Registry catalog limitations

- Currently, the Schema Registry catalog / format only supports reading messages with the latest enabled schema for any given Kafka topic at the time when the SQL query was compiled.
- No time-column and watermark support for Registry tables.
- No CREATE TABLE support. Schemas have to be registered directly in the SchemaRegistry to be accessible through the catalog.
- The catalog is read-only. It does not support table deletions or modifications.
- By default, it is assumed that Kafka message values contain the schema id as a prefix, because this is the default behaviour for the SchemaRegistry Kafka producer format. To consume messages with schema written in the header, the following property must be set for the Registry client: store.schema.version.id.in.header: true.

Behavioral changes

Learn about the change in certain functionality of Flink and Cloudera SQL Stream Builder that has resulted in a change in behavior from the previously released version of Cloudera Streaming Analytics.

TLS 1.3 for Cloudera Streaming Analytics network endpoints

Cloudera Streaming Analytics services now consume the central TLS cipher and protocol configuration from Cloudera Manager. Streaming Analytics network endpoints are configured by default to allow TLS 1.3 connections only. Clients that attempt to connect with TLS versions earlier than 1.3 are rejected.

Review the global TLS cipher suite settings in Cloudera Manager before upgrading production clusters. For Flink Dashboard and Gateway TLS, see [Enabling security for Apache Flink](#). For external REST endpoint TLS on running jobs, see [Securing Flink external REST endpoints with TLS](#).

project-permissions REST API

The project-permissions REST API now restricts data requests to the user's own user ID or their assigned projects, and the endpoint now returns BasicUserView.

CSA-6280 - Git import review when the remote project does not exist

When you import from Git and the remote project path does not yet exist in the repository, the source control diff API returns all local assets as added. The import review UI uses this result to show what an initial push would contain instead of returning an error.

CSA-5986 - Connector JAR Type validation

When you upload a custom SQL connector JAR, Cloudera SQL Stream Builder validates that the Type value matches a factory identifier declared in the archive. If the Type is incorrect, Cloudera SQL Stream Builder reports the error and lists the factory identifiers available in the JAR. If the JAR does not contain an `org.apache.flink.table.factories.Factory` implementation, Cloudera SQL Stream Builder reports that the file is not a valid SQL connector archive.

`java.io.tmpdir` for Cloudera SQL Stream Builder and Flink

Cloudera SQL Stream Builder and Flink processes now use `/var/tmp` as the value for `java.io.tmpdir` for internal file operations. On some operating systems, `/tmp` is mounted with the `noexec` flag, which prevents JVM processes from executing temporary files there.

Unsupported features

Some Apache Flink and Cloudera SQL Stream Builder features exist in Cloudera Streaming Analytics 1.18.0, but are not supported by Cloudera. These features are not ready for production deployment, but Cloudera encourages you to explore them in non-production environments and provide feedback on your experiences through the Cloudera Community Forums.

Cloudera SQL Stream Builder

- Virtual environments for Python are not supported.
- Direct Cloudera SQL Stream Builder upgrade from 1.3.0



Important: This does not impact Flink, you can directly upgrade Flink as described in the documentation.

For more information, see the [Upgrading SQL Stream Builder](#) in the 1.3.0 documentation.

Flink

- Apache Flink batch (DataSet) API
- GPU Resource Plugin
- SQL Client
- The following features are not supported in SQL and Table API:
 - HBase Table Connector
 - Old Planner
 - Non-windowed (unbounded) joins, distinct

Support Matrix

Before installing Cloudera Streaming Analytics, review the supported components, databases, connectors and the default ports in use for Flink and Cloudera SQL Stream Builder.

Component support

Learn more about which Apache Flink component version is supported in the Cloudera Streaming Analytics releases.

Cloudera Streaming Analytics version	Component version
Cloudera Streaming Analytics 1.18.0	Apache Flink 1.20.5
Cloudera Streaming Analytics 1.17.1	Apache Flink 1.20.1
Cloudera Streaming Analytics 1.16.0	Apache Flink 1.20.1
Cloudera Streaming Analytics 1.15.1	Apache Flink 1.20.0
Cloudera Streaming Analytics 1.15.0	Apache Flink 1.20.0
Cloudera Streaming Analytics 1.14.1	Apache Flink 1.19.1
Cloudera Streaming Analytics 1.14.0	Apache Flink 1.19.1
Cloudera Streaming Analytics 1.13.0	Apache Flink 1.19.1
Cloudera Streaming Analytics 1.12.0	Apache Flink 1.18.0
Cloudera Streaming Analytics 1.11.0	Apache Flink 1.16.2
Cloudera Streaming Analytics 1.10	Apache Flink 1.16.1
Cloudera Streaming Analytics 1.9.0	Apache Flink 1.15.1
Cloudera Streaming Analytics 1.8.0	
Cloudera Streaming Analytics 1.7.0	Apache Flink 1.14
Cloudera Streaming Analytics 1.6.2	
Cloudera Streaming Analytics 1.6.1	
Cloudera Streaming Analytics 1.6.0	
Cloudera Streaming Analytics 1.5.3	Apache Flink 1.13
Cloudera Streaming Analytics 1.5.1	
Cloudera Streaming Analytics 1.5.0	
Cloudera Streaming Analytics 1.4.1	Apache Flink 1.12
Cloudera Streaming Analytics 1.4.0	
Cloudera Streaming Analytics 1.3.0	
Cloudera Streaming Analytics 1.2.0	Apache Flink 1.10
Cloudera Streaming Analytics 1.1.0	Apache Flink 1.9.1

Related Information

[Cloudera Streaming Analytics 1.16.1 Release Notes](#)

[Cloudera Streaming Analytics 1.17.0 Release Notes](#)

[Cloudera Streaming Analytics 1.16.0 Release Notes](#)

[Cloudera Streaming Analytics 1.15.1 Release Notes](#)

[Cloudera Streaming Analytics 1.15.0 Release Notes](#)

[Cloudera Streaming Analytics 1.14.1 Release Notes](#)

[Cloudera Streaming Analytics 1.14.0 Release Notes](#)

[Cloudera Streaming Analytics 1.13.2 Release Notes](#)

[Cloudera Streaming Analytics 1.13.1 Release Notes](#)

[Cloudera Streaming Analytics 1.13.0 Release Notes](#)

[Cloudera Streaming Analytics 1.12.0 Release Notes](#)

[Cloudera Streaming Analytics 1.11.0 Release Notes](#)

[Cloudera Streaming Analytics 1.10.0 Release Notes](#)

[Cloudera Streaming Analytics 1.9.0 Release Notes](#)

[Cloudera Streaming Analytics 1.8.0 Release Notes](#)

[Cloudera Streaming Analytics 1.7.0 Release Notes](#)

[Cloudera Streaming Analytics 1.6.2 Release Notes](#)
[Cloudera Streaming Analytics 1.6.1 Release Notes](#)
[Cloudera Streaming Analytics 1.6.0 Release Notes](#)
[Cloudera Streaming Analytics 1.5.3 Release Notes](#)
[Cloudera Streaming Analytics 1.5.1 Release Notes](#)
[Cloudera Streaming Analytics 1.5.0 Release Notes](#)
[Cloudera Streaming Analytics 1.4.1 Release Notes](#)
[Cloudera Streaming Analytics 1.4.0 Release Notes](#)
[Cloudera Streaming Analytics 1.3.0 Release Notes](#)
[Cloudera Streaming Analytics 1.2.0 Release Notes](#)
[Cloudera Streaming Analytics 1.1.0 Release Notes](#)

System Requirements

Before installing Cloudera Streaming Analytics, you should verify that you meet the system requirements. Other than Cloudera Base on premises, you should also check the latest supported version of the needed components.

Java / JDK requirements

Support for JDK 8 and JDK 11 has been removed. Cloudera Streaming Analytics 1.18.0 only supports JDK 17 and JDK 21.

Component and connector versions

For detailed information about the supported versions of Cloudera Base on premises, operating systems and databases, see the [Cloudera Support Matrix](#).

Apache Flink support	1.20.5
Cloudera Runtime component support in Cloudera Base on premises	7.3.2
Atlas	2.4.7
HBase	2.6.3
HDFS	3.4.2
Hive	3.1.3000
Kafka ¹	3.9.1
Kudu	1.18.0
Schema Registry	0.10.0
Streams Messaging Manager	2.3.0
Apache Iceberg	1.10.0

Connector support	
JDBC PostgreSQL	9.6-16
JDBC MySQL	5.7, 8
JDBC Hive	3.1.3
JDBC Oracle	19, 19c, 21c, 23ai
JDBC Db2	11.5
JDBC SQL Server	2007-2022

¹ Connecting to Kafka that is running on remote CDH6 or HDP3 is also supported.

Connector support	
CDC PostgreSQL	9.6-16
CDC MySQL	5.7, 8
CDC Oracle	19, 19c, 21c, 23ai
CDC Db2	11.5
CDC SQL Server	2007-2022
Apache Iceberg	1.10.0
MariaDB (*)	11.x

**Important:**

* MariaDB 11.4.2 and higher versions require the mariadb-connector-java.jar file in the Cloudera SQL Stream Builder classpath.

Default ports for Flink and Cloudera SQL Stream Builder

You need to use the default ports of Flink and Cloudera SQL Stream Builder when you need to reach or connect to their services. The default port are set in Cloudera Manager, but can be changed if required.

The following table lists the default ports and the corresponding property file names for Flink and Cloudera SQL Stream Builder. The ports are set by default in Cloudera Manager. You can change the ports as required using the configuration properties.

Component	Service	Port	Configuration property
Flink	Flink Dashboard	18211	historyserver.web.port
Cloudera SQL Stream Builder	Streaming SQL Engine	18121	server.port
	Materialized View Engine	18131	server.port
Cloudera SQL Stream Builder with Load Balancer	Streaming SQL Engine	8080	ssb.sse.loadbalancer.server.port
	Secured Streaming SQL Engine	8445	ssb.sse.loadbalancer.server.secure.port
	Materialized View Engine	8081	ssb.mve.loadbalancer.server.port
	Secured Materialized View Engine	8444	ssb.mve.loadbalancer.server.secure.port

For the default port list of the Cloudera Runtime components, see the *Ports Used by Cloudera Runtime Components* document.

Maven dependencies in Flink

Review the list of Maven dependencies to ensure the correct connector versions in your Flink applications.

Avro

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-avro</artifactId>
  <version>1.20.5-csa1.18.0.0</version>
</dependency>
```

Confluent Registry

```
<dependency>
```

```
<groupId>org.apache.flink</groupId>
<artifactId>flink-connector-confluent-registry</artifactId>
<version>1.2-csa1.18.0.0</version>
</dependency>
```

CSV

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-csv</artifactId>
  <version>1.20.5-csa1.18.0.0</version>
</dependency>
```

Hive

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-hive_2.12</artifactId>
  <version>1.20.5-csa1.18.0.0</version>
</dependency>
```

HBase

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-hbase-1.4</artifactId>
  <version>3.0-csa1.15.0.0</version>
</dependency>
```

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-hbase-2.4</artifactId>
  <version>4.0-csa1.18.0.0</version>
</dependency>
```

Iceberg

```
<dependency>
  <groupId>org.apache.iceberg</groupId>
  <artifactId>iceberg-flink-runtime-1.20</artifactId>
  <version>1.10.0-csa1.18.0.0</version>
</dependency>
```

JDBC

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-jdbc</artifactId>
  <version>3.2-csa1.18.0.0</version>
</dependency>
```

JSON

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-json</artifactId>
  <version>1.20.5-csa1.18.0.0</version>
</dependency>
```

Kafka

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-kafka</artifactId>
  <version>3.4-csa1.18.0.0</version>
</dependency>
```

Kudu

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-kudu</artifactId>
  <version>2.0-csa1.18.0.0</version>
</dependency>
```

Schema Registry

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-connector-cloudera-registry</artifactId>
  <version>1.2-csa1.18.0.0</version>
</dependency>
```

Table API

```
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-table-api-java-bridge</artifactId>
  <version>1.20.5-csa1.18.0.0</version>
</dependency>
<dependency>
  <groupId>org.apache.flink</groupId>
  <artifactId>flink-table-planner-loader-bundle</artifactId>
  <version>1.20.5-csa1.18.0.0</version>
</dependency>
```

For more information about how to use Maven in Flink, see the [Apache documentation](#).

Flink API Support

Cloudera Streaming Analytics offers support for three fundamental layers of the Apache Flink API. You can use DataStream API, the ProcessFunction API and a selected subset of the SQL API to develop your Flink streaming applications.

From the DataStream and ProcessFunction APIs, the following are supported based on the support annotations provided by the Apache Flink community.

Stable (@Public)	Evolving (@PublicEvolving)
DataStream API	- ProcessFunction - Stream Join - Interval Join - Stateful operators - FsStatebackend with HDFS - RocksDBStateBackend with HDFS



Note: Cloudera Streaming Analytics does not support batch processing (DataSet API).