Cloudera Streaming Analytics 1.18.0

# Quick Start

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# Contents

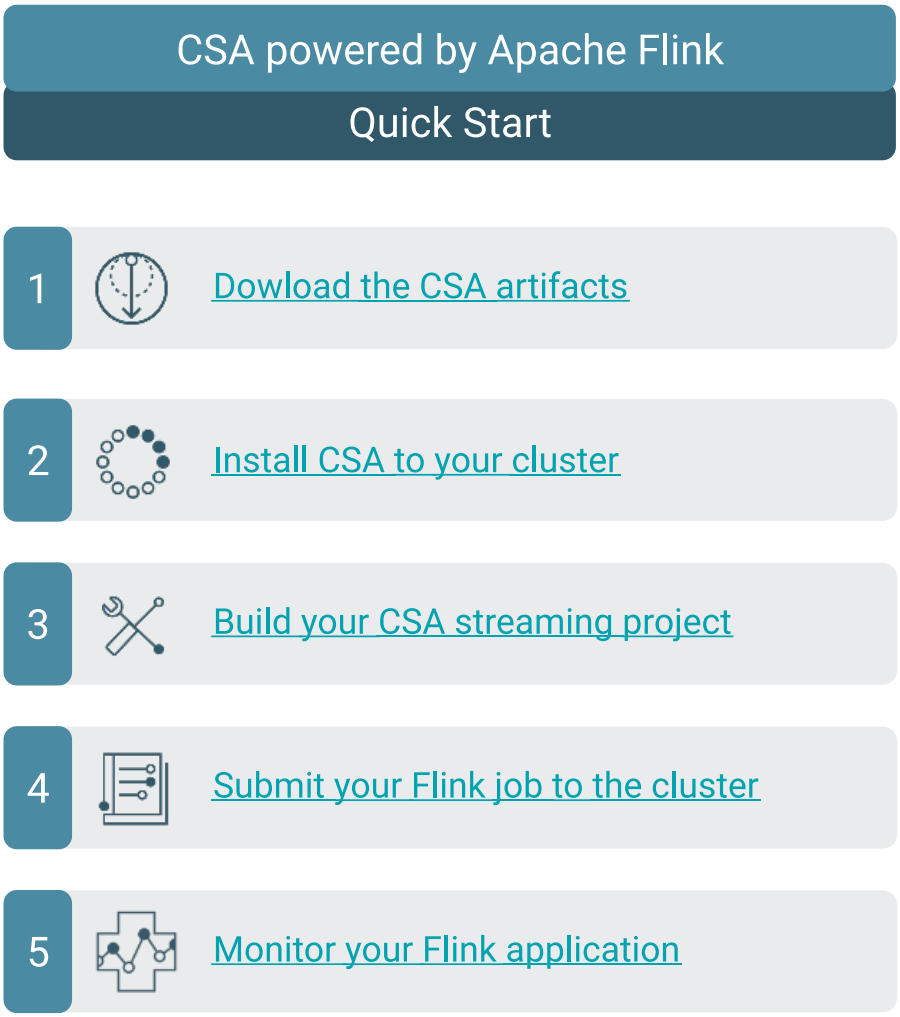
**Quick Start for Flink..... 4**

**Flink Project Template..... 4**

**Quick Start for Cloudera SQL Stream Builder..... 6**

# Quick Start for Flink

You can use the Quick Start to easily get familiar with downloading, installing Apache Flink on Cloudera Base on premises, and also building, submitting and monitoring your Flink application. You can learn more information by clicking on the high level steps covered in the illustration.




# Flink Project Template

The Quickstart Archetype serves as a template for an Apache Flink streaming application. You can use the Archetype to add source, sink and computation to the template. Like this you can practice the development of a simple Flink application, or use the Archetype as the starting point for a more complex application including state,watermark and checkpoint.

### About this task

The Flink quickstart archetype can be used to quickly build a basic Flink streaming project.

**Note:** You need to install the archetype locally on your host as Cloudera does not release maven archetypes to the Maven Central Repository.

### Procedure

1. Perform the following commands to create the archetype locally:

```
git clone https://github.com/cloudera/flink-tutorials
cd flink-tutorials
cd flink-quickstart-archetype
git checkout CSA-1.18.0.0
mvn clean install
cd ..
```

**Note:** The Flink Tutorials repository contains version branches between the Cloudera Base on premises and Cloudera on cloud deployments of Cloudera Streaming Analytics. The branches that use only CSA as a prefix belong to the Cloudera on premises deployment, and the branches that use CSA-DH as a prefix belong to the Cloudera on cloud Cloudera Data Hub deployment. Make sure to checkout the branch that is specific for the deployment in which Cloudera Streaming Analytics is used.

The following entry should be seen in your local catalog:

```
cat ~/.m2/repository/archetype-catalog.xml
 ...
 <archetypes>
    <archetype>
      <groupId>com.cloudera.flink</groupId>
      <artifactId>flink-quickstart-archetype</artifactId>
      <version>1.20.5</version>
      <description>flink-quickstart-archetype</description>
    </archetype>
  </archetypes>
```

2. Generate the project skeleton with the following commands:

```
mvn archetype:generate \
      -DarchetypeGroupId=com.cloudera.flink \
      -DarchetypeArtifactId=flink-quickstart-archetype \
      -DarchetypeVersion=1.20.5
```

3. Provide basic information about the streaming application.

   You can choose to customize configurations yourself or use automatically generated information.

   - To use automatically generated information, press Enter.
   - If you choose to customize configuration, set the following properties:

```
Define value for property 'groupId': com.cloudera.flink
                                     Define value for property 'artifactId':
sample-project
                                     Define value for property 'version' 1.0-
SNAPSHOT: :
                                     Define value for property 'package' c
om.cloudera.flink: :
                                     Confirm properties configuration:
                                     groupId: com.cloudera.flink
                                     artifactId: sample-project
                                     version: 1.0-SNAPSHOT
                                     package: com.cloudera.flink
                                     Y: :
```

The generated project will look like this:

```
sample-project
### pom.xml
### src
    ### main
        ### java
        #   ### com
        #       ### cloudera
        #           ### flink
        #               ### StreamingJob.java
        ### resources
            ### log4j.properties
```

4. Open StreamingJob.java file.

   The archetype application will look like this:

```
public class StreamingJob {
 public static void main(String[] args) throws Exception {
  final StreamExecutionEnvironment env = StreamExecutionEnvironment.getEx
ecutionEnvironment();
  DataStream<Integer> ds = env.fromElements(1,2,3,4);
  ds.printToErr();
  env.execute("Flink Streaming Java API Skeleton");
 }
}
```

5. Customize the archetype application by adding source, stream transformation and sink to the Datastream class.
6. Run the application with env.execute command.

### Results

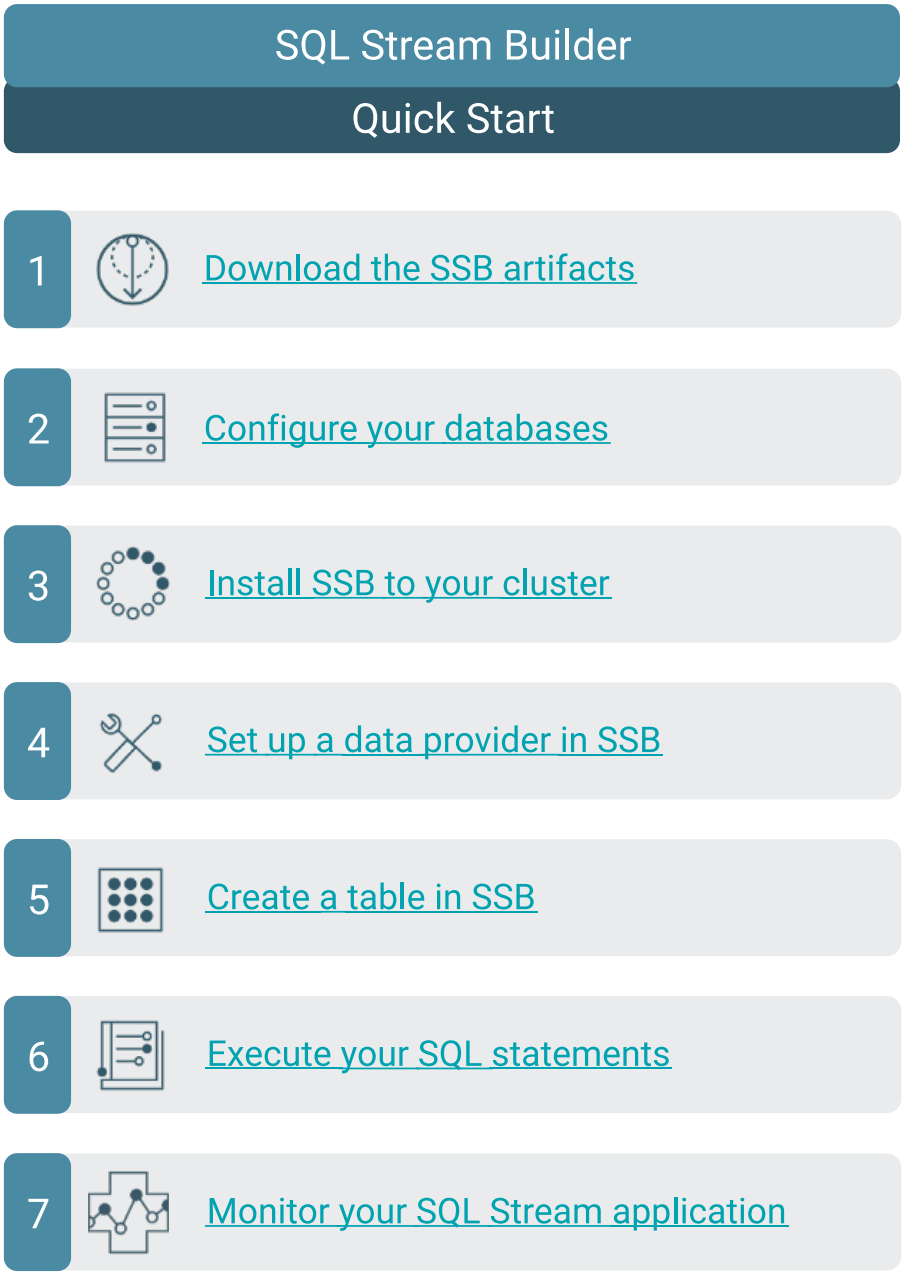
You have built your Flink streaming project.

### What to do next

You can further develop your application, or you can run the Flink application archetype.

# Quick Start for Cloudera SQL Stream Builder

You can use the Quick Start to easily get familiar with downloading, installingCloudera SQL Stream Builder on Cloudera Base on premises, and also building, running, and monitoring your Cloudera SQL Stream Builder application. You can learn more information by clicking on the high level steps covered in the illustration.


SQL Stream Builder
Quick Start
1
Download the SSB artifacts
2
Configure your databases
3
Install SSB to your cluster
4
Set up a data provider in SSB
5
Create a table in SSB
6
Execute your SQL statements
7
Monitor your SQL Stream application