

Cloudera Streaming Analytics 1.7.0

## Quick Start

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# CLOUDERA

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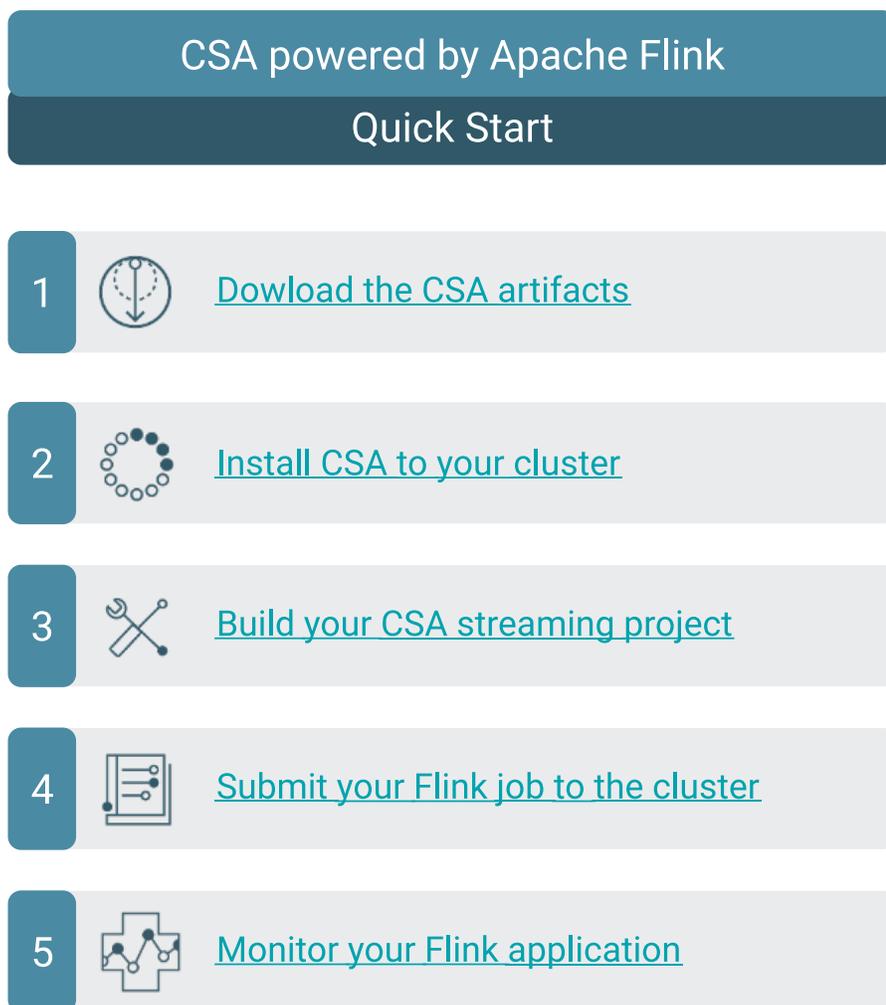
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# Contents

<b>Quick Start for Flink.....</b>	<b>4</b>
<b>Flink Project Template.....</b>	<b>4</b>
<b>Quick Start for SSF.....</b>	<b>6</b>

## Quick Start for Flink

You can use the Quick Start to easily get familiar with downloading, installing Apache Flink on CDP Private Cloud Base, 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
mvn clean install
cd ..
```

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>1.14.0-csa1.6.0.0</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=1.14.0-csa1.6.0.0
```

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.getExecutionEnvironment();
        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 SSB

You can use the Quick Start to easily get familiar with downloading, installing SQL Stream Builder (SSB) on CDP Private Cloud Base, and also building, running, and monitoring your SSB application. You can learn more information by clicking on the high level steps covered in the illustration.

## SQL Stream Applications

### Quick Start

1

[Download the CSA and SSB artifacts](#)

2

[Configure your database](#)

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](#)