Cloudera Stream Processing Community Edition 2.0.0

Installation

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https://docs.cloudera.com/

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Installing Cloudera Streaming Community Edition

Cloudera Streaming Community Edition is installed on Docker using Docker Compose. The compose file required for installation is downloaded from the Cloudera Streaming Community Edition Downloads Page. After installation is complete, Cloudera Streaming components will be available for use. Additionally, the user interfaces of Streams Messaging Manager, Schema Registry, and Streaming SQL Console will be accessible using a local host.

Before you begin

- For Mac/Windows users, make sure that you have Docker Desktop on your computer.

  You can download Docker Desktop from the Docker product page.
- Make sure that you have set the minimum memory and CPU for Docker. For more information, see the System Prerequisites section.

  You can set the minimum memory and CPU requirements at Preferences Resources after starting Docker Desktop. In case you change the default settings, you can save the changes with Apply and Restart.
- Cloudera Streaming Community Edition is installed with Docker Compose, which has two major versions. V1 and V2. The following steps instruct you to use the docker-compose command. This command invokes Docker Compose V1. If the version of Docker Desktop you installed includes Docker Compose V2, you can choose to install with Docker Compose V2 instead using the docker compose command.
  - If you choose to use Docker Compose V1, the delimiter used in the prefix and suffix of your container names will be an underscore (_).
  - If you choose to use Docker Compose V2, the delimiter used in the prefix and suffix of your container names will be a hyphen (-).

  In addition, if you enabled Docker Desktop Preferences General Use Docker Compose V2 , all docker-compose commands are aliased to docker compose. This means that a hyphen will be used as the prefix and suffix delimiter even if you use the docker-compose command (Compose V1) to install Cloudera Streaming Community Edition.
- If you have used the Community Edition of Cloudera Streaming Analytics before, make sure to remove the previously built containers and volumes to avoid errors.
  - To remove specific volumes and containers locally from Docker:

    ```
    docker-compose down
    docker rm -f $(docker ps -a -q | grep SSB)
    docker volume rm $(docker volume ls -q | grep SSB)
    ```

Procedure

1. Access the **Cloudera Streaming Community Edition Downloads Page**.
2. Download the docker-compose.yml file of Cloudera Streaming Community Edition.
3. Create a folder named csce, and move the docker-compose.yml file there.
4. Open a terminal session, and access the cspce directory.
5. Run the following command:

   ```
   docker-compose up -d
   ```

   Tip: When starting the containers, you can increase the number of Flink TaskManager containers to 2 to have more resources when running Cloudera SQL Stream Builder. The number of TaskManagers define how many Flink jobs you can run. In case you notice any resource or performance issues, it is recommended to scale the number of Flink TaskManagers.

   ```
   docker-compose up -d --scale flink-taskmanager=2
   ```

Results

The Docker Compose process starts to build the containers locally. It can take time to start Cloudera Streaming Community Edition for the first time or when there are changes to the Docker images. When you do not receive any new message in the terminal window for a while, it means that Cloudera Streaming Community Edition is ready to be used.

What to do next

- After successfully installing Cloudera Streaming Community Edition, access the User Interface (UI) of the components from your browser:

Schema Registry	Streams Messaging Manager	Streaming SQL Console

`http://localhost:7788`	`http://localhost:9991`	`http://localhost:18121`
		`Username: admin`
		`Password: admin`
		
		`You can also create a new account.`

- When you finished using Cloudera Streaming Community Edition, you can shut down the services in a terminal session using the docker compose down command.

Related Information

Cloudera Streaming Community Edition Downloads Page