

Confluent for kafka on local machine guide 101

What is confluent ?

Confluent Platform is a full-scale data streaming platform that enables you to easily access, store, and manage data as continuous, real-time streams.

Installation using docker

Prerequisite

Docker

Installation Guide

<https://hub.docker.com/>

https://docs.docker.com/engine/reference/commandline/container_ls/

```
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
```

Docker Compose

Installation Guide (Linux)

<https://phoenixnap.com/kb/install-docker-compose-on-ubuntu-20-04>

Step : Download and copy content of docker file

```
curl --silent --output docker-compose.yml \  
https://raw.githubusercontent.com/confluentinc/cp-all-in-one/7.3.2-post/cp-all-in-one/docker-compose.yml
```

Step : Start the Confluent Platform stack with the -d option to run in detached mode

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

output :

```
Creating network "cp-all-in-one_default" with the default driver
Creating zookeeper ... done
Creating broker ... done
Creating schema-registry ... done
Creating rest-proxy ... done
Creating connect ... done
Creating ksql-datagen ... done
Creating ksqldb-server ... done
Creating control-center ... done
Creating ksqldb-cli ... done
```

Step **3**: Verify that service is up and running

```
sudo docker-compose ps
```

output :

| Name | Command | State | Ports |
|-----------------|--------------------------------|-------|---------------------------|
| ----- | | | |
| broker | /etc/confluent/docker/run | Up | 0.0.0.0:29092->29092/tcp, |
| | | | 0.0.0.0:9092->9092/tcp |
| connect | /etc/confluent/docker/run | Up | 0.0.0.0:8083->8083/tcp, |
| | | | 9092/tcp |
| control-center | /etc/confluent/docker/run | Up | 0.0.0.0:9021->9021/tcp |
| ksqldb-cli | /bin/sh | Up | |
| ksql-datagen | bash -c echo Waiting for K ... | Up | |
| ksqldb-server | /etc/confluent/docker/run | Up | 0.0.0.0:8088->8088/tcp |
| rest-proxy | /etc/confluent/docker/run | Up | 0.0.0.0:8082->8082/tcp |
| schema-registry | /etc/confluent/docker/run | Up | 0.0.0.0:8081->8081/tcp |
| zookeeper | /etc/confluent/docker/run | Up | 0.0.0.0:2181->2181/tcp, |
| | | | 2888/tcp, |
| | | | 3888/tcp |

If any container isn't up and running try again : sudo **docker-compose up -d** OR restart.

```
sudo docker-compose restart control-center
```

Step 4 : Navigate to Control Center at <http://localhost:9021>. It may take a minute or two for Control Center to start and load.

Confluent Docs

```
https://docs.confluent.io/platform/current/platform-quickstart.html#create-the-users-topic
```

Use the docs to navigate and explore more feature of confluent and kafka.

Step 5 : Last but not least, Stop the container

```
sudo docker-compose stop
```

output :

```
> sudo docker-compose stop
Stopping ksql-datagen      ... done
Stopping control-center   ... done
Stopping ksqldb-cli       ... done
Stopping ksqldb-server    ... done
Stopping connect          ... done
Stopping rest-proxy       ... done
Stopping schema-registry  ... done
Stopping broker           ... done
Stopping zookeeper        ... done
```

```
https://github.com/Nachiket16/My-Dev-Journey/tree/main/Kafka%20Event%20Driven%20Architecture
```