1 docker-compose.yml

This is used for Docker container setup. In this case, we create four components: ZooKeeper, Schema-registry, Kafka Broker, and Control-center. These components work together to construct a robust environment for data processing.

2 SpeedbandProducer.ipynb

This is a Kafka Producer used for extracting real-time Speedband data and writing them into Kafka topics. Once the data is ready, we can download the records from the Kafka control-center built in the previous step.

3 Rainfall Query.ipynb

Used to get the hourly rainfall value and station location from the required time period.