

Scalable Computing
University of Groningen
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Algorithm & Data

Data

The Netherlands
weather data is
provided by the
public service KNMI
www.knmi.nl

We used Temperature column distribution to generate water usage.

Batch and Stream

Split for

- Batch
- Streaming

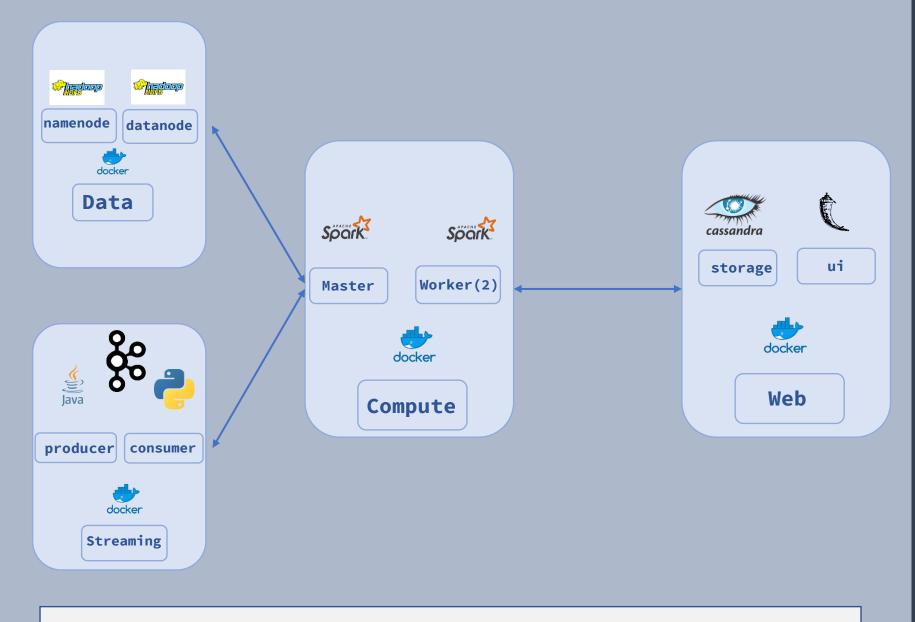
Model

- Pre-processing
- Regression model fitting (Spark)
- Model saving (HDFS)

Prediction

- Model fetching
- Prediction
- Saving results(Cassandra)

Source: Unplash



scac-network-2019 (docker bridge network)

Architecture

We design our architecture in a way to increase the scalability of the components

We increase the availability of computing resources by using 2 workers

Kappa (single time computing)



Technologies













