

Exercise 2 Architecture

The bolts, spouts, and topologies can be found in `exercise2/tweetwordcount`.

To run the application, you must first clone the `tweetwordcount` to get the relevant topology, spout, and bolts. Please note that the file has been named `tweetwordcount` instead of `ex2tweetwordcount` due to potential hiccups with numeric values in the file name.

`Ex2_setup.sh` will guide you through mounting a volume, creating a postgres DB, and running the application.

`Exercise2/serving_scripts` contains the `histogram.py` and `finalresults.py`.

- `Histogram.py`** allows you to print words with counts between a minimum and maximum parameter.

- `Finalresults.py`** allows you to input a word and get the counts for that word.

`Exercise2/screenshots` contains screenshots of the application. Specifically, there is:

- a screenshot of the tweets
- a screenshot of the count bolt
- a screenshot of the final results after running the python code "`finalresults.py`"
- a screenshot of the words within range after running python code "`histogram.py`"
- a screenshot of the top 20 words

`Exercise2/Plot.png` is a visual representation of the top 20 words with their respective word count.