### **Architecture**

## What does this thing do?

This application:

- Reads a live Twitter feed
- Parses out each word from each Tweet
- Counts the occurrences of each word (for duration of the live stream)
- Send the list of words and their counts to a postgres database

### How does it do all these things?

See technologies used below in green:

- Reads a live Twitter feed with Tweepy
- Links all tasks together with Stream Parses' spouts and bolts
- Parses out each word from each Tweet with Python
- · Counts the occurrences of each word (for duration of the live stream) with Python
- Send the list of words and their counts to a postgres database with psycopg2, a postgres adaptor for Python

## How do I run this thing?

Steps to get it working:

- 1. Download the necessary packages to your machine:
  - 1. Hadoop, postgres, etc
  - 2. Streamparse
  - 3. Tweepy
  - 4. PsycoPG
- 2. Create Twitter develop profile and get access tokens
- 3. Download the file structure to your machine
- 4. Go into Twittercredentials.py and update Twitter credentials
- 5. Go into extweetwordcount > src > bolts > wordcount.py and update Twitter credentials

# 6. To run main program enter:

- 1. "sparse run" (while in extweetwordcount folder)
- 2. Hit Control C to stop program at any time

## 7. To run finalresults.py enter:

1. "python finalresults.py <optional word you're interested in>

### 8. To run historgram.py enter:

1. "python histogram.py <number1>, <number2>

### What is the file structure?

Here is a map of the application:

