**Read me**

1. Install the given below library.

* Pip install praw
* Pip install confluent\_kafak
* Pip install spacy

1. Create the Reddit Developar account and get the Client Id and secret key. And place it into the producer .py.
2. Run zookeeper command: bin/zookeeper-server-start.sh config/zookeeper.properties.
3. Once zookeeper is up and running please start the bin/kafka-server-start.sh config/server.properties.
4. Create the two new kafka topics 1)mytopic 2)topic2.
5. Configure logstash pipeline as per logstash.config file and use the config as: bin/logstash -f config/logstash.conf
6. Run the proudecer.py and the consumer.py
7. Start the consumer with topic name topic2 in the terminal.
8. Create the elastic search index named rediit.
9. We used the elastic cloud for the data visualization, please add your credtinal and update the logstash.concf.
10. Let the program run for 60 minutes and plot the data into the Kibana.