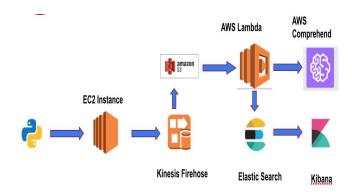
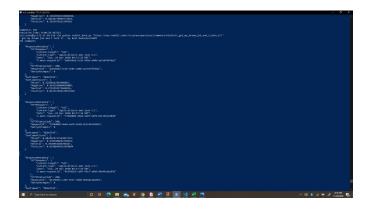
AWS Setup Steps:



System Configuration

- Elastic Compute Cloud (EC2): Amazon Linux AMI 2018.03.0 (HVM) 64 bit
- S3 bucket for storing the comments
- Kinesis Firehose delivery stream: Source as S3 bucket. Retry duration to ES is 60 seconds
- AWS Lambda: trigger added to the function are Amazon Cloud Watch logs, Amazon Comprehend, Amazon S3, Identity and Access Management
- Elastic Search: Version 6.5, instance type t2.small.elasticsearch, EBS Storage of 10 GB.

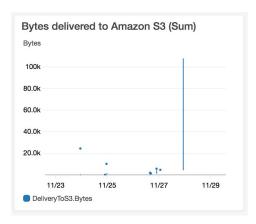
Step 1. Data Collection and the Instance: A VM instance is created on the AWS platform and a python script is executed to retrieve replies on a Reddit post passed as an URL to the script, by accessing a Python Reddit API Wrapper.

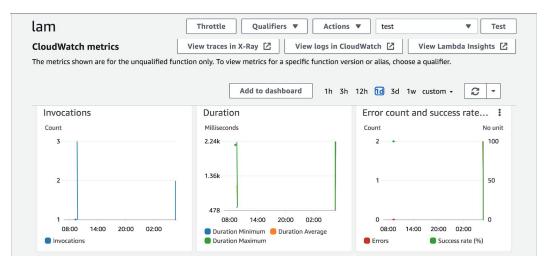


Step 2: Data ingestion using Kinesis Firehose

Below are the graphs which show how much data and when the data is delivered to S3 using AWS firehose

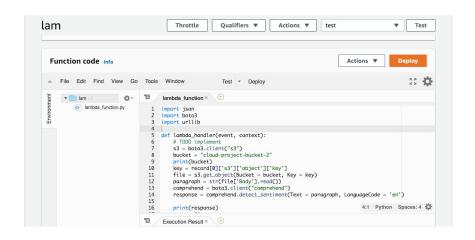


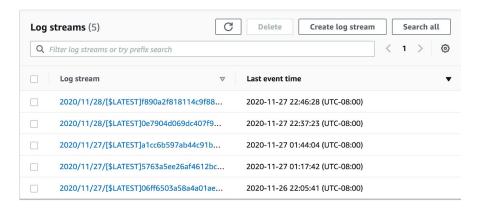


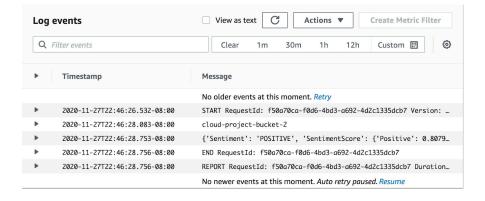




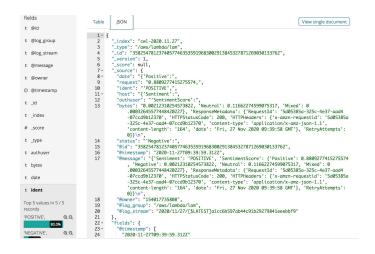
Step 3: Invocation of lambda function and a snapshot of logs







Step 4: Snapshot of the data from Elastic search



Step 5: Data Visualization using Kibana

