

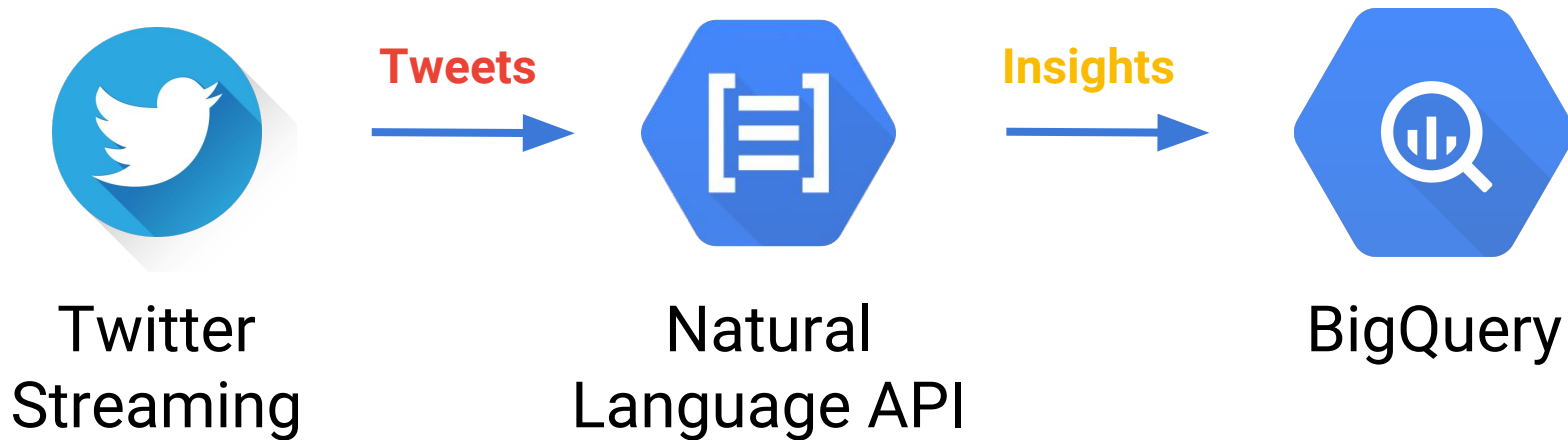


Google Cloud Platform

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Infrastructure. Innovation. Execution.

Let's Build Something



Let's Build Something



Twitter API
Credentials



Natural Language
API
Credentials



BigQuery
DataSet, Table



Let's Enable APIs

<https://console.cloud.google.com>

- Compute Engine API
- BigQuery API
- Natural Language API
- Machine Learning Engine
- Datalab API

Let's Enable APIs

The screenshot shows the Google Cloud Platform (GCP) dashboard interface. The browser's address bar displays the URL: <https://pantheon.corp.google.com/home/dashboard?project=indigo-bloom-118922>. The left-hand navigation menu is visible, with the 'APIs & services' option highlighted by a red rectangular box. A sub-menu is open for 'APIs & services', and the 'Library' option within this sub-menu is also highlighted by a red rectangular box. Other visible options in the main menu include Home, Cloud Launcher, Billing, Support, Getting started, and IAM & admin. The main content area of the dashboard shows a section for 'App Engine' with a 'Summary (count/sec)' dropdown and a message stating 'There is no data for this chart'. On the right side, there are status indicators for 'Google Cloud Platform' (All services normal) and 'Billing' (Estimated charges for the billing period Oct).

Let's Get Twitter Creds: <https://app.twitter.com>

- Create an App
- Generate Access Token


Things to Note:


- App name has to be unique
- Add Phone # to your twitter Profile
- Website needs to be in the format <http://www.xyz.com>, cannot be www.xyz.com

Let's Set-Up IAM


- Generate Service Account Key - IAM & Admin
- Add Service account to IAM
- Generate API Key - Natural Language API

Let's Set-Up Node JS VM

 Google Cloud Platform

 My Project

Launcher > Node.js




Node.js


[Node.js \(Google Click to Deploy\)](#)


Estimated costs: \$24.67/month | 50+ recent reviews


Node.js application runtime


[LAUNCH ON COMPUTE ENGINE](#)

 node.js

**Node.js**
Google Click to Deploy

**Node.js**
Google Click to Deploy containers

**Node.js Certified by Bitnami**
Bitnami

**Node.js, .Net & PHP on Hardened Windows Server 2016**
Cognosys Inc.

1 FAST DEPLOYMENT

Create BigQuery Dataset & Table

<https://github.com/sararob/ml-talk-demos>

id:STRING,text:STRING,
created_at:STRING,
user_followers_count:INTEGER,
hashtags:STRING,
tokens:STRING,
score:STRING,
magnitude:STRING,
location:STRING

BigQuery Console: bigquery.cloud.google.com

The screenshot displays the Google BigQuery Console interface in a web browser. The browser's address bar shows the URL <https://bigquery.cloud.google.com/dataset/indigo-bloom-118922:aws?pli=1>. The page title is "Google BigQuery".

On the left sidebar, there is a "COMPOSE QUERY" button and links for "Query History" and "Job History". Below these is a "Filter by ID or label" search bar. The "My Project" section is expanded, showing a list of datasets: **aws**, **demos**, **macy_dataset**, **natality_regression**, **satellite_images**, **twitter_sent_dataset**, **bigquery-public-data**, **fh-bigquery**, and **Public Datasets** (including **gdelt-bq:hathitrustbooks**).

The main content area is titled "Dataset Details: aws". It includes a "Description" section with the text "Describe this dataset..." and a "Details" section. A context menu is open over the "My Project" list, with the following options: "Create new dataset", "Switch to project" (highlighted with a red box), and "Refresh". Below the menu, the dataset "aws_bill_template" is visible.

BigQuery Console: bigquery.cloud.google.com

The screenshot displays the Google BigQuery Console interface. The browser's address bar shows the URL <https://bigquery.cloud.google.com/dataset/indigo-bloom-118922:aws?pli=1>. The page title is "Google BigQuery".

On the left sidebar, under the "COMPOSE QUERY" button, there are links for "Query History" and "Job History". Below these is a search bar labeled "Filter by ID or label". The "My Project" section lists several datasets: **aws**, **demos**, **macy_dataset**, **natality_regression**, **satellite_images**, **twitter_sent_dataset**, **bigquery-public-data**, **fh-bigquery**, and **Public Datasets** (which includes **gdelt-bq:hathitrustbooks**).

The main content area is titled "Dataset Details: aws". It includes a "Description" section with the text "Describe this dataset..." and a "Details" section. In the "Details" section, a context menu is open, showing options: "Create new dataset", "Switch to project", and "Refresh". The "Create new dataset" option is highlighted with a red box. Below the menu, the dataset "aws_bill_template" is listed.

Queries - Sentiment

```
SELECT FLOAT (score) as sentiment, magnitude, text from  
[<project_id>:twitter_sentiment_dataset.tweets]  
where text contains "#google"  
ORDER BY sentiment ASC, magnitude
```

Queries - Adjective Count

```
SELECT COUNT(*) as adj_count, adjective
FROM
JS(
(SELECT tokens FROM [<project_id>:twitter_sentiment_dataset.tweets] where text contains "trump"),
tokens,
"[{name:'adjective', type:'string'}]",
"function(row,emit){
    try {
        x = JSON.parse(row.tokens);
        x.forEach(function(token){
            if (token.partOfSpeech.tag === 'ADJ') {
                emit({adjective: token.lemma.toLowerCase()});
            }
        });
    } catch (e) {}
}"
)
GROUP BY adjective
ORDER BY adj_count DESC
LIMIT 100
```