

## Sprint 3 on 30 of March 30, 2023.

The submission is the same as Sprint2, but working on the cloud, Google Cloud to be more precise. Prices are very high to organize the pipeline with AIRFLOW, KIBANA and ELASTICSEARCH with VISUAL STUDIO CODE. And my team is still one person. Another problem is use of KUBERNETES, like Docker.

Some appreciations in this SPRINT- 3, is that Google works in the way that hide information and make it confusing to common and ordinary people to progress. Would be great to have some human training about Google Cloud. My experience that demonstrates this is:

- Trying to find R language in Colab
- Upload data to Drive to be used in Colab
- Magenta is a music project that no information about the back-end code easy to find and understand (my final year project is about Music production with ML with familiarization about sound, waves, energy, vibrations, and physics in general).
- The secrecy about Google search engine is obvious to any person
- European standards are difficult to accept in the UK and Google is discretely very abusive in sharing and using information to own profits

For these and other reasons, this project has difficulties to be on Google Cloud. Microsoft Azure is lighter and easier to use. Microsoft is a corporation and Google is a LLC (Limited Liability Company). Sadly, banks and “smart money” like more Google than Microsoft.

Some Screenshots follows to demonstrate quickly my work.

Search results - Google Drive x FYP1.0.ipynb - Colaboratory x Apache Airflow 2 - Marketplace x click-to-deploy/README.md at n x +


console.cloud.google.com/marketplace/product/google/airflow2?q=search&referrer=search&orgonly=true&project=sublime-blade-382217&supportedpurview=organizationid&cloudshell=true

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## Apache Airflow 2

Version: latest ▾

[Apache Airflow 2 \(Google Click to Deploy containers\)](#)

Apache Airflow

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### Overview

Airflow is a platform created by the community to programmatically author, schedule and monitor workflows.

[Learn more ↗](#)

### About Google Click to Deploy containers

### Additional details

Type: [Container images](#)

Last updated: 19/03/2023

Category: [Developer tools](#)

Repository path: <https://marketplace.norix.io/google/airflow?P>


CLOUD SHELL

Terminal sublime-blade-382217 x + ▾

Open editor

⌨ ⚙ 📄 📁 ⋮ ⏏ ↻ ✕

```
WARNING: A long list of credential helpers may cause delays running 'docker build'. We recommend passing the registry name to configure only the registry you are using.
gcloud credential helpers already registered correctly.
latest: Pulling from google/airflow2
1a5202e91792: Pull complete
2a52e9d77a9c: Pull complete
89624cf2f22f: Pull complete
56b5e4198dbc: Pull complete
0509e6f47f65: Pull complete
f9f535c1ded9: Extracting [=====>] 107.5MB/206.6MB
10dd6fec574d: Download complete
e999f2d05c37: Download complete
b61dedd27c48: Download complete
d63f55482d03: Download complete
|
```



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< > ↺ 🏠 console.cloud.google.com/marketplace/product/google/airflow2?q=search&referrer=search&orgonly=true&project=sublime-blade-382217&supportedpurview=organizationId&cloudshell=true

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Apache Airflow

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Overview

Airflow is a platform created by the community to programmatically author, schedule and monitor workflows.  
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About Google Click to Deploy containers

Additional details

Type: [Container images](#)  
Last updated: 19/03/2023  
Category: [Developer tools](#)  
Repository path: <https://marketplace.gcr.io/google/airflow?>

CLOUD SHELL Terminal sublime-blade-382217 x +

```
1a5202e31792: Pull complete
2a52e9d77a9e: Pull complete
89624cf2f22f: Pull complete
56b5e4198dbc: Pull complete
0509e6f47f65: Pull complete
f9f535cided9: Pull complete
10dd6fec574d: Pull complete
e999fd05c37: Pull complete
b61edcd27e48: Pull complete
d63f55482d03: Pull complete
Digest: sha256:72d7eaee92a881fb5df9bd7070b7ff88d86f0a803280684f184b3965c794123
Status: Download newer image for marketplace.gcr.io/google/airflow2:latest
marketplace.gcr.io/google/airflow2:latest
ittonycash@cloudshell:~ (sublime-blade-382217) $
```

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FYP1.0.ipynb - Colaboratory

Elasticsearch 6 - Marketplace - [

click-to-deploy/README.md at n

+

console.cloud.google.com/marketplace/product/google/elasticsearch6?q=search&referrer=search&orgonly=true&project=sublime-blade-382217&supportedpunview=organizationid

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Elasticsearch 6

Version: latest

[Elasticsearch 6 \(Google Click to Deploy containers\)](#)

Distributed real time search and analytics

GET STARTED WITH ELASTICSEARCH 6

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Terminal

[\(sublime-blade-382217\)](#)

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Zoom in

Zoom out

Close

```
marketplace.gcr.io/google/airflow2:latest
ittonycash@cloudshell:~ (sublime-blade-382217)$ gcloud auth configure-docker && docker pull marketplace.gcr.io/google/elasticsearch6:latest
WARNING: Your config file at [/home/ittonycash/.docker/config.json] contains these credential helper entries:
{
  "credHelpers": {
    "gcr.io": "gcloud",
    "us.gcr.io": "gcloud",
    "eu.gcr.io": "gcloud",
    "asia.gcr.io": "gcloud",
    "staging-k8s.gcr.io": "gcloud",
    "marketplace.gcr.io": "gcloud"
  }
}
Adding credentials for all GCR repositories.
WARNING: A long list of credential helpers may cause delays running 'docker build'. We recommend passing the registry name to configure only the registry you are using.
gcloud credential helpers already registered correctly.
latest: Pulling from google/elasticsearch6
7ad8221f609d: Pull complete
c6322e167580: Pull complete
eee978fb134: Pull complete
72d95adfeb1: Pull complete
5dc2b1813bf9: Pull complete
0c1f49148665: Pull complete
```




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Data Engineering

## Kibana 6

Version: Latest  
[Kibana 6 \(Google Click to Deploy containers\)](#)

Visualization and analytics platform for Elasticsearch

[SHOW PULL COMMAND](#)

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CLOUD SHELL Terminal (sublime-blade-382217) +

```
eee978f7d134: Pull complete
72a95adfebf1: Pull complete
5dc2b1813bf9: Pull complete
0c1f49148665: Pull complete
d6506ee8b960: Pull complete
b21466151ba2: Pull complete
468e49edab28: Pull complete
1bec298487bf: Pull complete
016a9b34325f: Pull complete
82a525d65b56: Pull complete
685cf60645a2: Pull complete
0ae319de0fcf: Pull complete
751bf074fa0d: Pull complete
498999e4bad0: Pull complete
83b3bf1f93b80: Pull complete
498be929aef8: Pull complete
a277ce72d7f1: Pull complete
a8ca331e895f: Pull complete
fd7c4f12fb5c: Pull complete
91d89ded6327: Pull complete
Digest: sha256:8a08357cf3d8695d9961628ec22f885df905314ebaa713e82124b564c587d152
Status: Downloaded newer image for marketplace.gcr.io/google/elasticsearch6:latest
marketplace.gcr.io/google/elasticsearch6:latest
ittonycash@cloudshell:~ (sublime-blade-382217) $
```

Search results - Google Drive

FYP1.0.ipynb - Colaboratory

Kibana 6 - Marketplace - Data E

click-to-deploy/README.md at n

+

console.cloud.google.com/marketplace/product/google/kibana6?q=search&referrer=search&orgonly=true&project=sublime-blade-382217&supportedpunview=organizationid

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CLOUD SHELL

Terminal

[\(sublime-blade-382217\)](#)

Open editor

Terminal

```
ittonycash@cloudshell:~ (sublime-blade-382217)$ gcloud auth configure-docker && docker pull marketplace.gcr.io/google/kibana6:latest
WARNING: Your config file at [/home/ittonycash/.docker/config.json] contains these credential helper entries:

{
  "credHelpers": {
    "gcr.io": "gcloud",
    "us.gcr.io": "gcloud",
    "eu.gcr.io": "gcloud",
    "asia.gcr.io": "gcloud",
    "staging-k8s.gcr.io": "gcloud",
    "marketplace.gcr.io": "gcloud"
  }
}
Adding credentials for all GCR repositories.
WARNING: A long list of credential helpers may cause delays running 'docker build'. We recommend passing the registry name to configure only the registry you are using.
gcloud credential helpers already registered correctly.
latest: Pulling from google/kibana6
6b43ea6ade36: Downloading [=====>] 25.16MB/48.26MB
36702ee0a54d: Download complete
9b77dce9b53: Downloading [=====>] 33.99MB/157.1MB
a46fb2fe7f19: Download complete
a2bc0c151915: Download complete
a6c40e3426c9: Download complete
```

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 **Kibana 6**

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Visualization and analytics platform for Elasticsearch

SHOW PULL COMMAND

OVERVIEW SUPPORT


CLOUD SHELL

Terminal sublime-blade-382217 + 

 Open editor       

```
{
  "credHelpers": {
    "gcr.io": "gcloud",
    "us.gcr.io": "gcloud",
    "eu.gcr.io": "gcloud",
    "asia.gcr.io": "gcloud",
    "staging-k8s.gcr.io": "gcloud",
    "marketplace.gcr.io": "gcloud"
  }
}

Adding credentials for all GCR repositories.
WARNING: A long list of credential helpers may cause delays running 'docker build'. We recommend passing the registry name to configure only the registry you are using.
gcloud credential helpers already registered correctly.
latest: Pulling from google/kibana6
6b43ea6ade36: Pull complete
36702ee0a54d: Pull complete
9b77dcc89b53: Pull complete
a46fb2fe7f19: Pull complete
a2ba0e51915: Pull complete
a6c40e3426c9: Pull complete
Digest: sha256:c0f3b44af44aac4e2a2b4ee78bc27cdfc6af2b8e57d53224baf9e53bf30e6c7
Status: Downloaded newer image for marketplace.gcr.io/google/kibana6:latest
marketplace.gcr.io/google/kibana6:latest
ittonycash@cloudshell:~ (sublime-blade-382217)$
```

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The screenshot shows the Google Cloud console interface. At the top, there's a navigation bar with the Google Cloud logo, a search bar, and a 'Data Engineering' dropdown. Below this is a sidebar with a list of products including Cloud overview, View all products, and various services like APIs and services, Billing, IAM and admin, Marketplace, Compute Engine, Kubernetes Engine, Cloud Storage, BigQuery, VPC network, Cloud Run, SQL, Security, and Google Maps Platform. The main content area features a large blue banner titled 'Get Started with Google Cloud Platform' with a 'TRY FOR FREE' button. Below the banner, there's a section for 'Top products' with four cards: Compute Engine, Cloud Storage, Cloud SQL, and Cloud Run. At the bottom, a terminal window is open, showing a terminal session with Docker commands and output. The terminal output lists Docker images and their details.

Search results - Google Drive x FYP1.0.ipynb - Collaboratory x click-to-deploy/README.md at x x +

console.cloud.google.com/getting-started?orgonly=true&project=sublime-blade-382217&supportedpurview=organizationid

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Data Engineering x Search

Cloud overview >

View all products

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IAM and admin >

Marketplace

Compute Engine >

Kubernetes Engine >

Cloud Storage >

BigQuery >

VPC network >

Cloud Run

SQL

Security >

Google Maps Plat... >

MORE PRODUCTS v

Get Started with Google Cloud Platform

90-day, \$300 free trial to get you started  
Always free products to keep you going

TRY FOR FREE

Top products

Compute Engine

Scalable, high-performance virtual machines

Cloud Storage

A powerful, simple and cost-effective object storage service

Cloud SQL

A fully managed MySQL, PostgreSQL and SQL Server database service

Cloud Run

Fully managed compute platform for deploying and scaling containerised applications quickly and securely

CLOUD SHELL Terminal (sublime-blade-382217) x +

Open editor

```
Can't find a suitable configuration file in this directory or any parent. Are you in the right directory?
```

```
Supported filenames: docker-compose.yml, docker-compose.yaml
```

```
ittonycash@cloudshell:~ (sublime-blade-382217)$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ittonycash@cloudshell:~	(sublime-blade-382217)	\$ docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE		
marketplace.gcr.io/google/airflow2	latest	6be910538367	4 days ago	1.41GB		
marketplace.gcr.io/google/elasticsearch6	latest	f54ef4e48301	4 weeks ago	1.08GB		
marketplace.gcr.io/google/kibana6	latest	da69d3b2bd00	10 months ago	435MB		

```
ittonycash@cloudshell:~ (sublime-blade-382217)$
```

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teamwork.

+ Quick add

Home

Search

Jump to

Projects

Templates

Time

More

50% off Teamwork!

Upgrade now

Tony C

Higher Education Grants - Google

Email - Antonio Ramon Oliver

Wei Li | Microsoft Teams

Survey : Music\_evaluation (sim)

Task board - Data Engineering

New Tab

https://tonyscompany23.teamwork.com/app/projects/744120/tasks/board

★ Data Engineering

List

Board

Table

Dashboard

Files

Time

Milestones

Messages

More...

+

Automate

Show backlog

Start ...

+ 0

No cards in this list yet.

Doing ...

+ 2

OWN report in milestone4

You + 1 other

List: Cards

Est: 2h

milestone4

Tony C

List: Cards

Due: Thu Apr 27th

Est: 15h

Done. END ...

+ 2

milestone1

Kevin Chalmers

List: Cards

milestone2

List: Cards

Due: Sun Mar 19th

50%

Est: 6h

milestone3

Tony C

List: Cards

Due: Tomorrow

20%

Est: 10h

Add a column

Add column

Add a card

Add a card

Add a card

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console.cloud.google.com/marketplace/product/techlatest-public/vscode-cloud-ide?q=search&referrer=search&project=sublime-blade-382217

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Product details Visual Studio Code in browser Techlatest.net LAUNCH

OVERVIEW PRICING DOCUMENTATION SUPPORT

### Pricing

The table below shows the estimated costs using the default configuration. You can customise the configuration later when deploying this solution.

vscode-cloud-ide Usage Fee	USD 65.70/mo
<a href="#">SHOW MORE</a>	
Infrastructure fee	
VM instance: 1 vCPU + 3.75 GB memory (n1-standard-1)	USD 34.67/mo
Standard persistent disk: 10 GB	USD 0.47/mo
Sustained-use discount ⓘ	- USD 10.40/mo
<b>Estimated monthly total</b>	<b>USD 90.44/mo</b>

Price estimates based on 30-day, 24hrs per day usage of the listed resources in the Central US region. The estimated monthly infrastructure fee calculation may not reflect all Google Cloud IaaS resources actually created or consumed by this product (or the fees charged for such consumption). Techlatest.net may be able to provide a more accurate estimate of monthly GCP IaaS consumption.

#### Get a custom quote

Can't find a pricing plan for your project? [Contact Techlatest.net's sales](#) to get a custom quote.

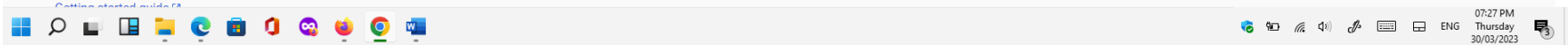
#### Tutorials and documentation

[Online started guide](#)

### Google Cloud free trial

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[Learn more about Google Cloud pricing](#) and [free trial](#)



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console.cloud.google.com/marketplace/product/cloud-infrastructure-services/docker-compose-windows-2016?q=search&referrer=search&project=sublime-blade-382217

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Product details Docker Compose Server on Windows Server 2016 Cloud Infrastructure Services LAUNCH

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### Pricing

The table below shows the estimated costs using the default configuration. You can customise the configuration later when deploying this solution.

Windows Server 2016 Datacenter Edition Usage Fee	USD 33.58/mo
<a href="#">SHOW MORE</a>	
Docker Compose Server on Windows Server 2016 Usage Fee	USD 21.90/mo
<a href="#">SHOW MORE</a>	
<b>Infrastructure fee</b>	
VM instance: 1 vCPU + 3.75 GB memory (n1-standard-1)	USD 34.67/mo
Standard persistent disk: 50 GB	USD 2.36/mo
Sustained-use discount	- USD 10.40/mo
<b>Estimated monthly total</b>	<b>USD 82.11/mo</b>

Price estimates based on 30-day, 24hrs per day usage of the listed resources in the Central US region. The estimated monthly infrastructure fee calculation may not reflect all Google Cloud IaaS resources actually created or consumed by this product (or the fees charged for such consumption). Cloud Infrastructure Services may be able to provide a more accurate estimate of monthly GCP IaaS consumption.

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[Install Docker Compose on GCP](#)

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console.cloud.google.com/marketplace/product/cloud-infrastructure-services/docker-compose-ubuntu20?q=search&referrer=search&project=sublime-blade-382217

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Product details Docker Compose Server on Ubuntu Server 20.04 Cloud Infrastructure Services LAUNCH

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### Pricing

The table below shows the estimated costs using the default configuration. You can customise the configuration later when deploying this solution.

Docker Compose Server on Ubuntu Server 20.04 Usage Fee	USD 21.90/mo
<a href="#">SHOW MORE</a>	
Infrastructure fee	
VM instance: 1 vCPU + 3.75 GB memory (n1-standard-1)	USD 34.67/mo
Standard persistent disk: 10 GB	USD 0.47/mo
Sustained-use discount ⓘ	- USD 10.40/mo
<b>Estimated monthly total</b>	<b>USD 46.64/mo</b>

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[Run Docker Compose on GCP](#)

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Dashboard - Data Engineering -

Cloud Shell

click-to-deploy/README.md at r

+

console.cloud.google.com/bigquery?project=sublime-blade-382217&ws=1m51m4l1m3l1ssublime-blade-382217l2sbqxjob\_1e0676dd\_18733dc9f72l3sUS

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BigQuery

Analysis

SQL workspace

Data transfers

Scheduled queries

Analytics Hub

Dataform

Partner Centre

Migration

SQL translation

Administration

Monitoring

Capacity management

BI Engine

Policy tags

Release notes

Explorer

Type to search

Broaden search to all projects.

SHOW STARRED RESOURCES ONLY.

etsi\_technical\_standards

faa

fcc\_political\_ads

fda\_drug

fda\_food

fdic\_banks

fec

thir\_synthesa

ga4\_obfuscated\_sample...

gbif

gdelt\_hathitrustbooks

gdelt\_internetarchiveboo...

genomics\_cannabis

genomics\_rice

geo\_census\_blockgroups

geo\_census\_tracts

geo\_international\_ports

geo\_openstreetmap

google\_trends

international\_top\_risi...

international\_top\_ter...

top\_rising\_terms

top\_terms

SHOW MORE

\*Unsaved query 2

RUN

SAVE

SHARE

SCHEDULE

MORE

Query completed.

```
1 -- This query shows a list of the daily top Google Search terms.
2 SELECT
3   refresh_date AS Day,
4   term AS Top_Term,
5   -- These search terms are in the top 25 in the US each day.
6   rank,
7 FROM `bigquery-public-data.google_trends.top_terms`
8 WHERE
9   rank = 1
10  -- Choose only the top term each day.
11  AND refresh_date >= DATE_SUB(CURRENT_DATE(), INTERVAL 2 WEEK)
12  -- Filter to the last 2 weeks.
13 GROUP BY Day, Top_Term, rank
14 ORDER BY Day DESC
15 -- Show the days in reverse chronological order.
16
```

Query results

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

EXECUTION GRAPH

PREVIEW

This BigQuery table is being used for Change Data Capture (CDC) and this preview was last updated at Thu Mar 30 2023 19:51:50 GMT+0100 (British Summer Time) time. To pull real-time data, please query the table.

Row	Day	Top_Term	rank
1	2023-03-29	Warriors	1
2	2023-03-28	Nashville shooting	1
3	2023-03-27	Succession	1
4	2023-03-26	Jonathan Majors	1
5	2023-03-25	Reese Witherspoon	1

Results per page: 50 1 - 14 of 14

PERSONAL HISTORY PROJECT HISTORY

REFRESH

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Search results - Google Drive

PYP1.0.ipynb - Colaboratory

Create repository - BigQuery

Cloud Shell

click-to-deploy/README.md at r

console.cloud.google.com/bigquery/dataform/create?project=sublime-blade-382217

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BI Engine

Policy tags

Release notes

Repository created successfully.

Dataform executes workflows as the service account `service-916825694848@gcp-sa-dataform.iam.gserviceaccount.com`. Ensure that the service account has been granted the role `roles/bigquery.user` in order to create datasets, tables and jobs. Also ensure that the service account has been granted access to read any datasets or tables that your workflow will consume. [Learn more](#)

DONE

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console.cloud.google.com/bigquery/dataform/locations/europe-west1/repositories/DE/workspaces/DEbis/actions?project=sublime-blade-382217

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Google Cloud Data Engineering docker Search

BigQuery DEbis CODE **COMPILED GRAPH** EXECUTIONS START EXECUTION

Analysis

- SQL workspace
- Data transfers
- Scheduled queries
- Analytics Hub
- Dataform**
- Partner Centre

Migration

- SQL translation

Administration

- Monitoring
- Capacity management
- BI Engine
- Policy tags

Release notes

first\_view View: sublime-blade-382217....

second\_view View: sublime-blade-382217....

https://console.cloud.google.com/bigquery/dataform/locations/europe-west1/repositories/DE/workspaces/DEbis/actions?project=sublime-blade-382217

07:58 PM Thursday 30/03/2023

The screenshot displays the Google Cloud BigQuery console interface. On the left, the 'Explorer' pane shows a project hierarchy with 'bigquery-public-data' expanded, revealing the 'austin\_crime' dataset. The main pane shows the 'crime' table's schema, listing 18 fields such as 'unique\_key', 'address', 'census\_tract', 'clearance\_date', 'clearance\_status', 'council\_district\_code', 'description', 'district', 'latitude', 'longitude', 'location', and 'location\_description'. The 'Query Editor' pane on the right contains a query: `SELECT FROM 'bigquery-public-data.austin_crime.crime' LIMIT 1000`. Below the query, the 'Query results' section shows a syntax error: 'Syntax error: SELECT list must not be empty at [1:9]'. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 08:06 PM on Thursday, 30/03/2023.



Dashboard - Data Engineering - x +

console.cloud.google.com/home/dashboard?project=sublime-blade-382217

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ACTIVITY

RECOMMENDATIONS

Project info

Project name

Data Engineering

Project number

916825694848

Project ID

sublime-blade-382217

ADD PEOPLE TO THIS PROJECT

Go to project settings

Resources

BigQuery

Data warehouse/analytics

SQL

Managed MySQL, PostgreSQL, SQL Server

Compute Engine

VMs, GPUs, TPUs, disks

Storage

Multi-class multi-region object storage

Cloud Functions

Event-driven serverless functions

App Engine


Managed app platform

Trace

No trace data from the last 7 days

API APIs

Requests (requests/sec)



Requests: 0.002/s

Go to APIs overview

Google Cloud Platform status

AlloyDB for PostgreSQL

We are investigating an issue with AlloyDB for PostgreSQL. Began at 2023-03-30 (04:04:35)

Google Cloud Networking

Google Cloud Networking experiencing elevated latency in multiple regions. Began at 2023-03-29 (14:37:55)

All times are US/Pacific

Data provided by status.cloud.google.com

Go to Cloud status dashboard

Monitoring

Create my dashboard

Set up alerting policies

Create uptime checks

View all dashboards

Go to Monitoring

API Error Reporting

No sign of any errors. Have you set up Error Reporting?

Learn how to set up Error Reporting

Windows taskbar with various application icons and system clock showing 08:17 PM Thursday 30/03/2023.