

Google Cloud

STEPS:

- **Main.py**, equivalent to **app.py**
- Export your model (e.g. **model.pkl**)
- **App.yaml**, it specifies the runtime of the python environment (eg. 3.7 written as python37)
- Requirements.txt
- Templates
- Static

Create Account On Google Cloud

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

Google Cloud Platform My First Project Search products and resources

DASHBOARD ACTIVITY RECOMMENDATIONS CUSTOMIZE

How Google Cloud is helping during COVID-19. [Learn more](#) DISMISS

Project info

Project name
My First Project

Project ID
majestic-lodge-295509

Project number
721608999887

[ADD PEOPLE TO THIS PROJECT](#)

[Go to project settings](#)

Resources

This project has no resources

Trace

No trace data from the past 7 days

[Get started with Trace](#)

RPI APIs

Requests (requests/sec)

0.019/s
0.018/s
0.017/s
0.016/s
0.015/s

2:45 3 PM 3:15 3:30

Requests: 0.017/s

[Go to APIs overview](#)

Google Cloud Platform status

All services normal

[Go to Cloud status dashboard](#)

Monitoring

Set up alerting policies

Create uptime checks

View all dashboards

[Go to Monitoring](#)

Error Reporting

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

[Learn how to set up Error Reporting](#)

Welcome to Google Cloud

console.cloud.google.com/home/dashboard?folder=&organizationId=&project=majestic-lodge-295509

Google Cloud Platform My First Project Search products and resources

Home Pins appear here Marketplace Billing RPI APIs & Services Support IAM & Admin Getting started Security Compliance Anthos COMPUTE App Engine Compute Engine Kubernetes Engine Cloud Functions

IAM Identity & Organization Policy Troubleshooter Policy Analyzer Organization Policies Quotas Service Accounts Labels Settings Privacy & Security Identity-Aware Proxy Roles Audit Logs **Manage Resources** Essential Contacts Groups

1.

2.

RECOMMENDATIONS

COVID-19. [Learn more](#) DISMISS

RPI APIs

Requests (requests/sec)

0.019/s
0.018/s
0.017/s
0.016/s
0.015/s

2:45 3 PM 3:15 3:30

Requests: 0.017/s

[Go to APIs overview](#)

Google Cloud Platform status

All services normal

[Go to Cloud status dashboard](#)

Monitoring

Set up alerting policies

Create uptime checks

View all dashboards

[Go to Monitoring](#)

Error Reporting

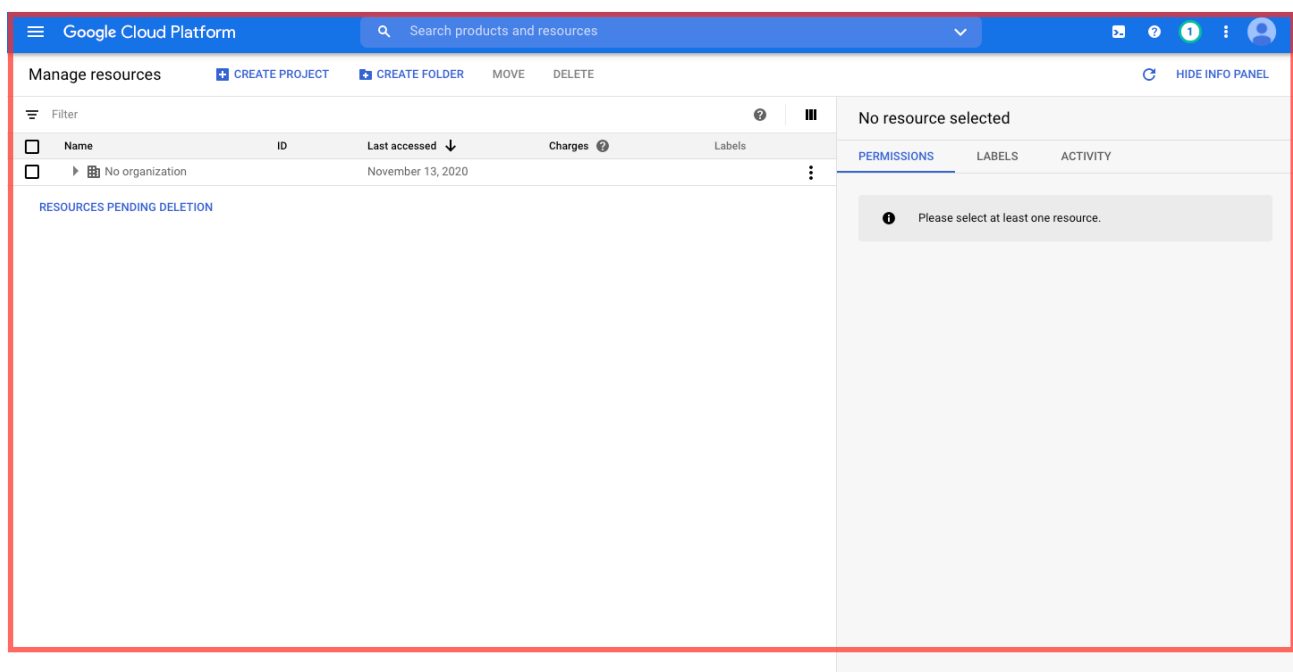
No sign of any errors. Have you set up Error Reporting?

[Learn how to set up Error Reporting](#)

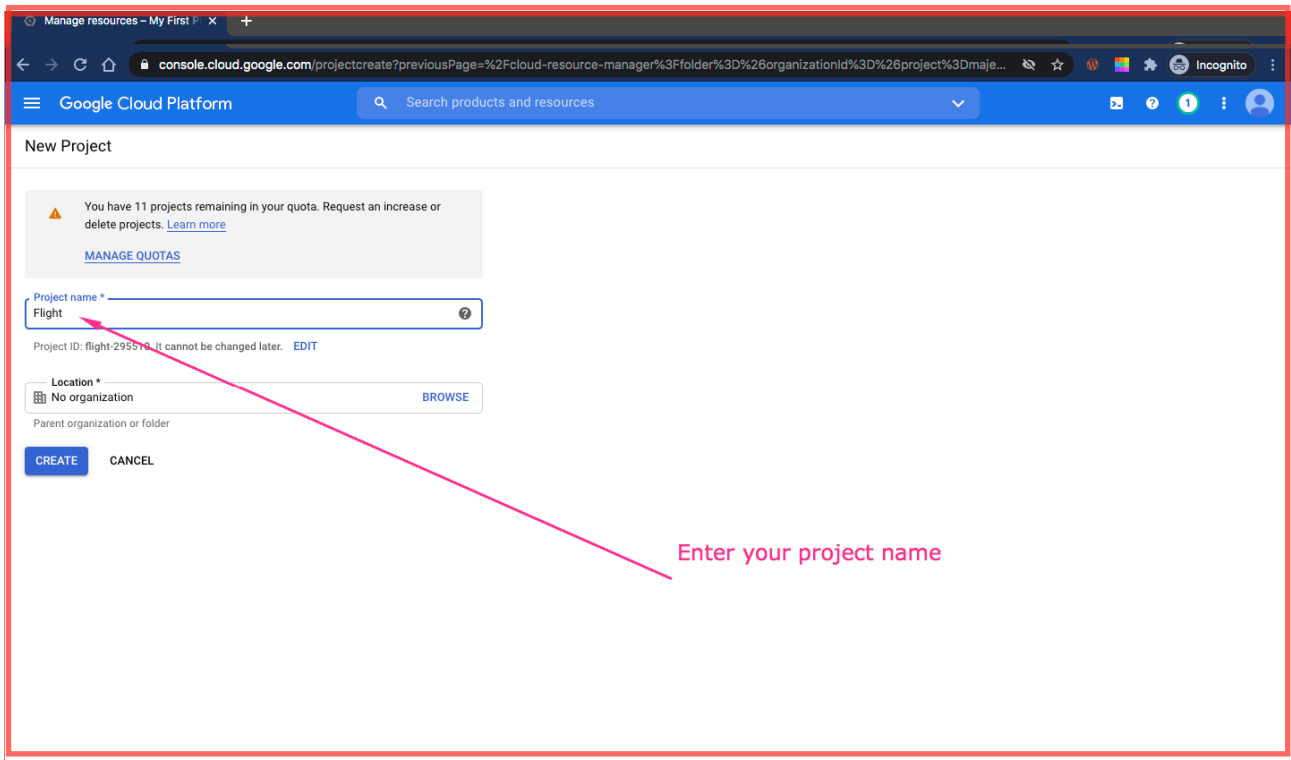
CUSTOMIZE

Navigate to **IAM & Admin >> Manage Resources**

You should be seeing the following interface



Click on **Create Project**



Manage resources - My First P x

console.cloud.google.com/projectcreate?previousPage=%2Fcloud-resource-manager%3Ffolder%3D%26organizationId%3D%26project%3Dmaje...

Google Cloud Platform

New Project

You have 11 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name * Flight

Project ID: flight-295509. It cannot be changed later. [EDIT](#)

Location * No organization [BROWSE](#)

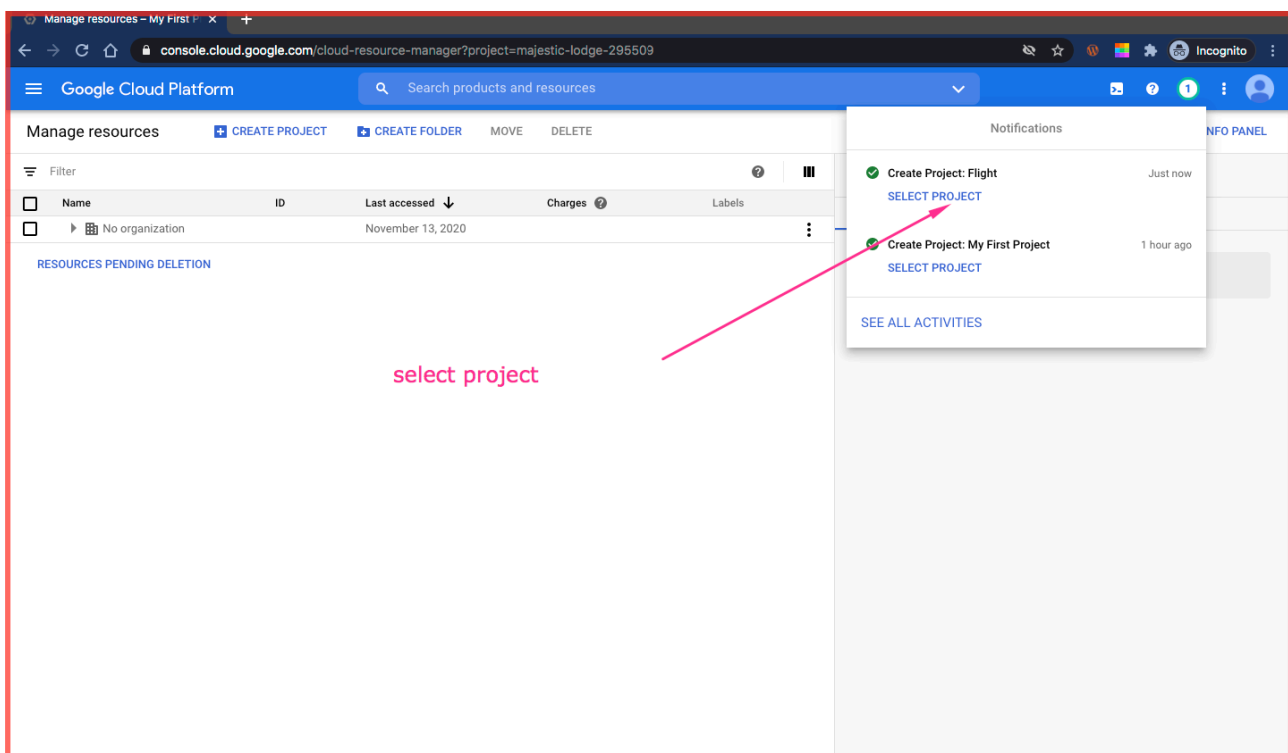
Parent organization or folder

[CREATE](#) [CANCEL](#)

Enter your project name

Enter your **Project Name** and click on **Create**

Now Select your Project



Manage resources - My First P x

console.cloud.google.com/cloud-resource-manager?project=majestic-lodge-295509

Google Cloud Platform

Manage resources [CREATE PROJECT](#) [CREATE FOLDER](#) [MOVE](#) [DELETE](#)

Filter

Name	ID	Last accessed	Charges	Labels
No organization		November 13, 2020		

RESOURCES PENDING DELETION

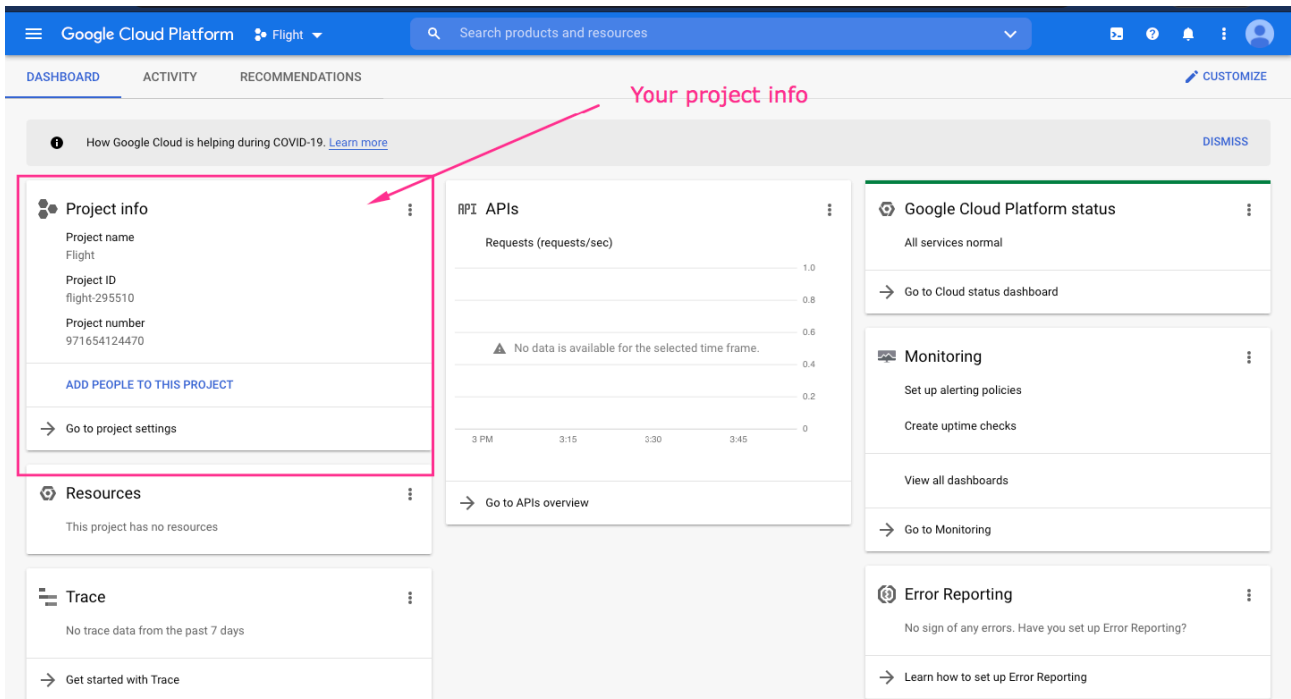
Notifications

- Create Project: Flight Just now [SELECT PROJECT](#)
- Create Project: My First Project 1 hour ago [SELECT PROJECT](#)

[SEE ALL ACTIVITIES](#)

select project

You can now see your project info.



Project info

- Project name: Flight
- Project ID: flight-295510
- Project number: 971654124470

[ADD PEOPLE TO THIS PROJECT](#)

[Go to project settings](#)

Resources

This project has no resources.

Trace

No trace data from the past 7 days.

[Get started with Trace](#)

API APIs

Requests (requests/sec)

No data is available for the selected time frame.

[Go to APIs overview](#)

Google Cloud Platform status

All services normal

[Go to Cloud status dashboard](#)

Monitoring

Set up alerting policies

Create uptime checks

View all dashboards

[Go to Monitoring](#)

Error Reporting

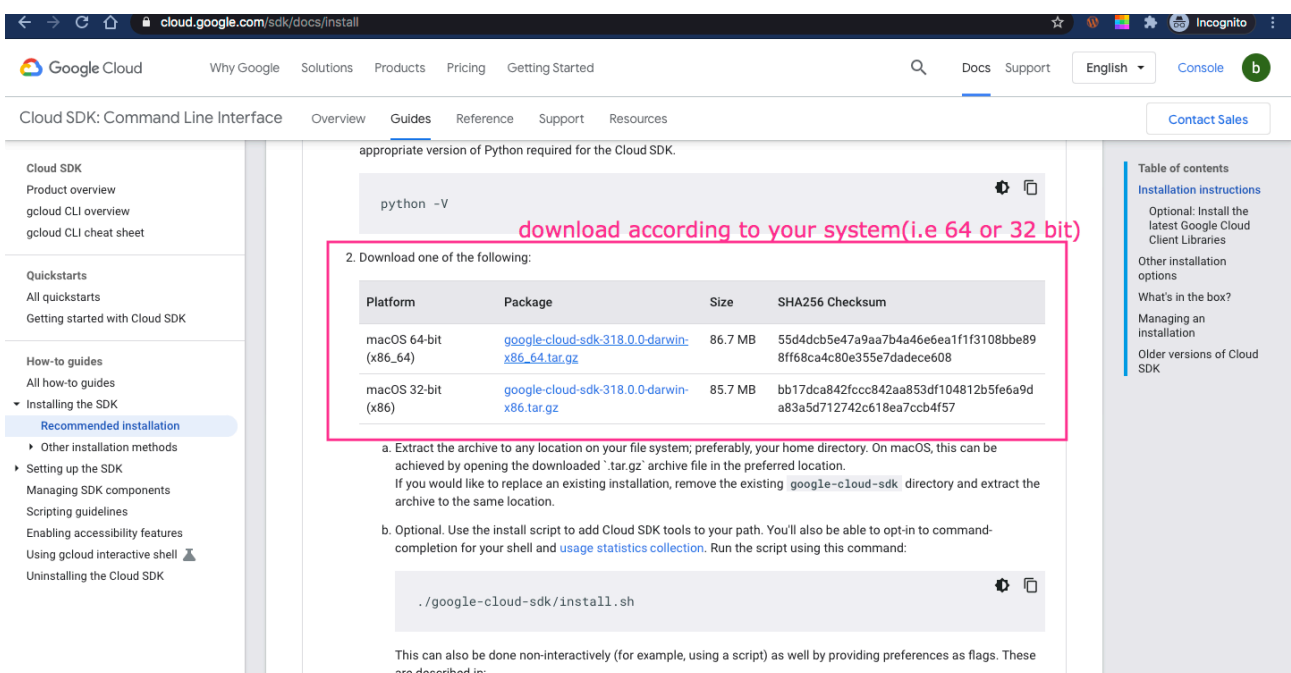
No sign of any errors. Have you set up Error Reporting?

[Learn how to set up Error Reporting](#)

Now let's install **Google Cloud sdk installer** in order to deploy our code from our local machine

Download and Install the *sdk installer*

On Mac: <https://cloud.google.com/sdk/docs/install>



appropriate version of Python required for the Cloud SDK.

```
python -V
```

2. Download one of the following:

Platform	Package	Size	SHA256 Checksum
macOS 64-bit (x86_64)	google-cloud-sdk-318.0.0-darwin-x86_64.tar.gz	86.7 MB	55d4dc5e47a9aa7b4a46e6ea1f1f3108bbe898ff68ca4c80e355e7dadece608
macOS 32-bit (x86)	google-cloud-sdk-318.0.0-darwin-x86.tar.gz	85.7 MB	bb17dca842fcc842aa853df104812b5f6a9da83a5d712742c618ea7ccb4f57

a. Extract the archive to any location on your file system; preferably, your home directory. On macOS, this can be achieved by opening the downloaded ".tar.gz" archive file in the preferred location. If you would like to replace an existing installation, remove the existing "google-cloud-sdk" directory and extract the archive to the same location.

b. Optional. Use the install script to add Cloud SDK tools to your path. You'll also be able to opt-in to command-completion for your shell and [usage statistics collection](#). Run the script using this command:

```
./google-cloud-sdk/install.sh
```

This can also be done non-interactively (for example, using a script) as well by providing preferences as flags. These are described in:

On Windows: <https://dl.google.com/cloudsdk/channels/rapid/GoogleCloudSDKInstaller.exe>

Use the install script to add Cloud SDK tools to your path.
Type this command: **`./google-cloud-sdk/install.sh`**

```
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$ ./google-cloud-sdk/install.sh
Welcome to the Google Cloud SDK!

To help improve the quality of this product, we collect anonymized usage data
and anonymized stacktraces when crashes are encountered; additional information
is available at <https://cloud.google.com/sdk/usage-statistics>. This data is
handled in accordance with our privacy policy
<https://policies.google.com/privacy>. You may choose to opt in this
collection now (by choosing 'Y' at the below prompt), or at any time in the
future by running the following command:

    gcloud config set disable_usage_reporting false

Do you want to help improve the Google Cloud SDK (y/N)? n

Your current Cloud SDK version is: 318.0.0
The latest available version is: 318.0.0
```

Components				
	Status	Name	ID	S
Size				
	Not Installed	App Engine Go Extensions	app-engine-go	4.

```

Do you want to continue (Y/n)? y

The Google Cloud SDK installer will now prompt you to update an rc
file to bring the Google Cloud CLIs into your environment.

Enter a path to an rc file to update, or leave blank to use
[/Users/mybeast/.bash_profile]: 

```

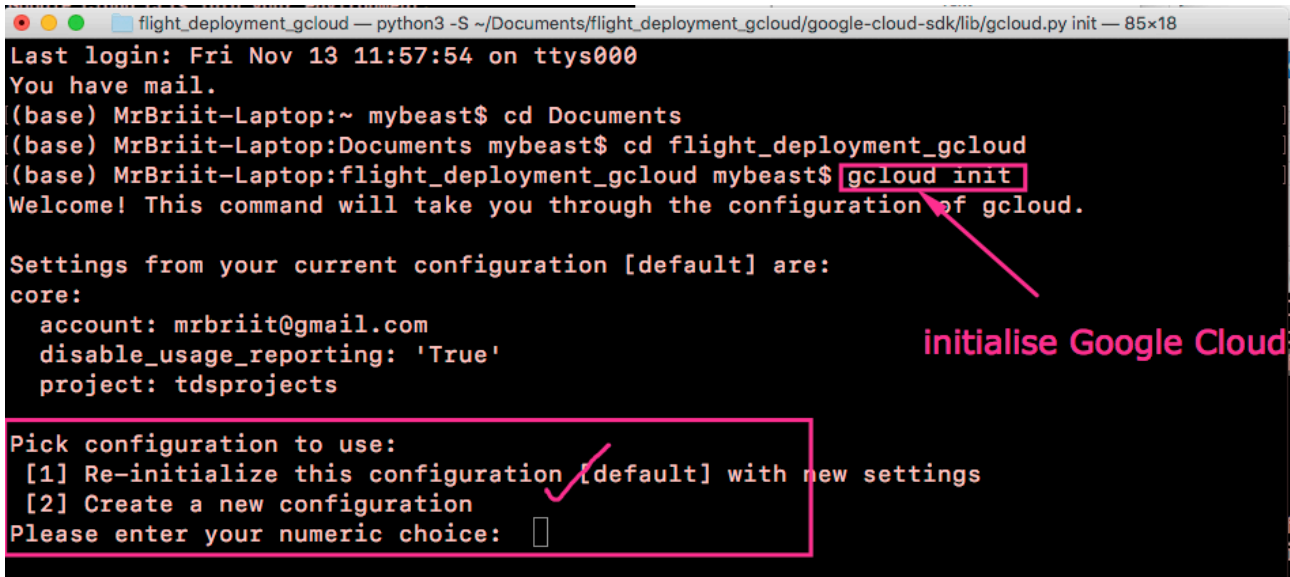
Start a new Terminal or Command line

Initialize Google Cloud: *gcloud init*

```
flight_deployment_gcloud — python3 -S ~/Documents/flight_deployment_gcloud/google-cloud-sdk/lib/gcloud.py init — 85x18
Last login: Fri Nov 13 11:57:54 on ttys000
You have mail.
(base) MrBriit-Laptop:~ mybeast$ cd Documents
(base) MrBriit-Laptop:Documents mybeast$ cd flight_deployment_gcloud
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$ gcloud init
Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [default] are:
core:
  account: mrbriit@gmail.com
  disable_usage_reporting: 'True'
  project: tdsprojects

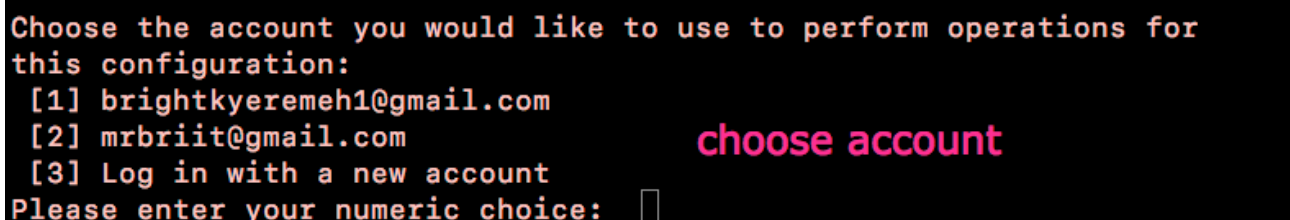
Pick configuration to use:
[1] Re-initialize this configuration [default] with new settings
[2] Create a new configuration
Please enter your numeric choice: 
```



initialise Google Cloud

Choose your preferred account

```
Choose the account you would like to use to perform operations for
this configuration:
[1] brightkyeremeh1@gmail.com
[2] mrbriit@gmail.com
[3] Log in with a new account
Please enter your numeric choice: 
```



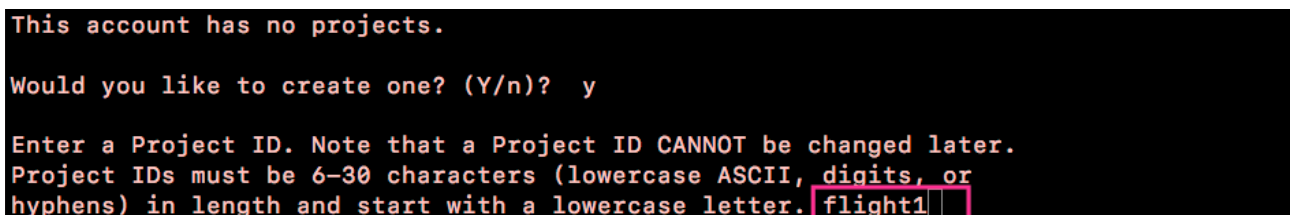
choose account

Enter a project name if prompted to enter a project ID or select an existing project you have created already.

```
This account has no projects.

Would you like to create one? (Y/n)? y

Enter a Project ID. Note that a Project ID CANNOT be changed later.
Project IDs must be 6-30 characters (lowercase ASCII, digits, or
hyphens) in length and start with a lowercase letter. flight1
```



```
[13] southamerica-east1
[14] us-central
[15] us-east1
[16] us-east4
[17] us-west2
[18] us-west3
[19] us-west4
[20] cancel
Please enter your numeric choice: 4

Creating App Engine application in project [flight-295510] and region [asia-northeast3]....done.
Services to deploy:

descriptor: [/Users/mybeast/Documents/flight_deployment_gcloud/app.yaml]
source: [/Users/mybeast/Documents/flight_deployment_gcloud]
target project: [flight-295510]
target service: [default]
target version: [20201113t170929]
target url: [https://flight-295510.du.r.appspot.com]

Do you want to continue (Y/n)? y
```

press Y to continue

```
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$ gcloud config set project Flight
ERROR: (gcloud.config.set) The project property must be set to a valid project ID, not the pr
ject name [Flight]
To set your project, run:

$ gcloud config set project PROJECT_ID

or to unset it, run:

$ gcloud config unset project
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$ gcloud config set project flight-295
510
Updated property [core/project].
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$
```

not project name

instead use project ID

NB: Incase you run into the below error. Use your project ID **NOT** your project name

Time To Deploy Your Code to Google Cloud

Use command: `gcloud app deploy app.yaml --project <YourProject ID>`

```
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$ gcloud app deploy app.yaml --project flight-295510
You are creating an app for project [flight-295510].
WARNING: Creating an App Engine application for a project is irreversible and the region
cannot be changed. More information about regions is at
<https://cloud.google.com/appengine/docs/locations>.

Please choose the region where you want your App Engine application
located:

[1] asia-east2
[2] asia-northeast1
[3] asia-northeast2
[4] asia-northeast3
[5] asia-south1
[6] asia-southeast2
[7] australia-southeast1
[8] europe-west
```

choose a region

E.g: gcloud app deploy app.yaml --project flight-295510

This will take couple of minutes to complete, grab some coffee and relax

```

= Uploading 3 files to Google Cloud Storage =
File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://flight12345.du.r.appspot.com]

You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse --project=flight12345
(base) MrBriit-Laptop:flight_deployment_gcloud mybeast$
  
```

your URL is here

run this command alternatively

You can see your URL. Copy and paste in your browser.
Alternatively, you can run the command as shown below.

<https://flight12345.du.r.appspot.com/>

