

Google cloud platform project

Deploy your flask app on Google Cloud (App Engine)

by Alshaimaa Alamer

Guidelines:

- First make your own GCP account.
- second after you make your account go to app engine and create your application
- third deploying your flask app

Hands-on-deck \$:~

App Engine settings:

here you make your first application.

The screenshot shows the Google Cloud Platform interface. On the left, there's a sidebar with various options like Dashboard, Services, Versions, Instances, Task queues, Cron jobs, Security scans, Firewall rules, Quotas, Memcache, Search, and Settings. The main area is titled 'App Engine' and has a search bar with 'app engine'. Below the search bar, there are sections for 'PRODUCTS & PAGES' and 'DOCUMENTATION & TUTORIALS'. The 'PRODUCTS & PAGES' section includes links to Application Settings, Deploy a Java application with Compute Engine, Ecommerce web application deployed on Kubernetes, and App Engine. The 'DOCUMENTATION & TUTORIALS' section includes links to App Engine Application Platform, App Engine documentation, Explore large data sharing web app, Explore large data sharing web app with Java, and Google AppSheet | Build apps with no code. At the bottom, there's a 'RESOURCES' section showing resource results for the current project. A modal window is open in the bottom right corner, asking 'Overall, how satisfied are you with Google Cloud App Engine?' with five options: Very satisfied, Somewhat satisfied, Neither satisfied nor dissatisfied, Somewhat dissatisfied, and Very dissatisfied. There are 'NEXT' and 'X' buttons at the bottom of the modal.

Google Cloud My Project 51501alshaimaa App E Search 5 LEARN

App Engine App Engine cj

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings Release Notes

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

Your App Engine application has been created

Let us help you deploy to your application by pointing you at the relevant resources based on your programming language.

GET STARTED

<https://console.cloud.google.com/appengine?project=my-project-51501alshaimaa>

Google Cloud Alshaimaa Search (/) for resources, docs, products, and more Search

App Engine Create app LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings Release Notes

1 Configure application — 2 Get started

Region

Select a region for your App Engine application. Please remember, once selected the region is permanently tied to the project.



Select a region *

us-central

Identity and API access

Select a service account Now viewing project "Alshaimaa" in organization "No organization"

If no service account is selected the default App Engine service account will be used.

Google Cloud Alshaimaa Search (/) for resources, docs, products, and more Search

App Engine Create app LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings

Region

Select a region for your App Engine application. Please remember, once selected the region is permanently tied to the project.

Filter Filter

App Engine default service account

NEW SERVICE ACCOUNT REFRESH LIST

If no service account is selected the default App Engine service account will be used.

NEXT Now viewing project "Alshaimaa" in organization "No organization"

Google Cloud Alshaimaa Search (/) for resources, docs, products, and more Search

App Engine Create app LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings

Region

Select a region for your App Engine application. Please remember, once selected the region is permanently tied to the project.

Select a region * us-central

Identity and API access

Select a service account App Engine default service account

If no service account is selected the default App Engine service account will be used.

NEXT

The screenshot shows the Google Cloud Platform App Engine dashboard for a project named "my-project-51501alshaimaa". The left sidebar lists various services: Dashboard, Services, Versions, Instances, Task queues, Cron jobs, Security scans, Firewall rules, Quotas, Memcache, Search, and Settings. Below the sidebar is a "Release Notes" section. The main content area has two main sections: "Resources" (Language: Python, Environment: Standard) and "Deploy with Google Cloud SDK" (with links to download the SDK, initialize it with "gcloud init", and deploy with "gcloud app deploy"). A "I'LL DO THIS LATER" button is also present.

Cloud Shell:

After we create our first application

The screenshot shows the Google Cloud Platform App Engine dashboard for the same project. The main content area displays a "Welcome to App Engine" message stating "Your App Engine application has been created" and provides instructions for deployment. Below this is a "GET STARTED" button. At the bottom of the screen is a "CLOUD SHELL" terminal window titled "(my-project-51501alshaimaa)". The terminal displays the following text:

```
Welcome to Cloud Shell! Type "help" to get started.  
Your Cloud Platform project in this session is set to my-project-51501alshaimaa.  
Use "gcloud config set project [PROJECT ID]" to change to a different project.  
cj505jon@cloudshell:~ (my-project-51501alshaimaa)$
```

then write the commands as

1-git clone https://github.com/CJ-2/upload-app.git

2-ls

3-cd upload-app

4-ls

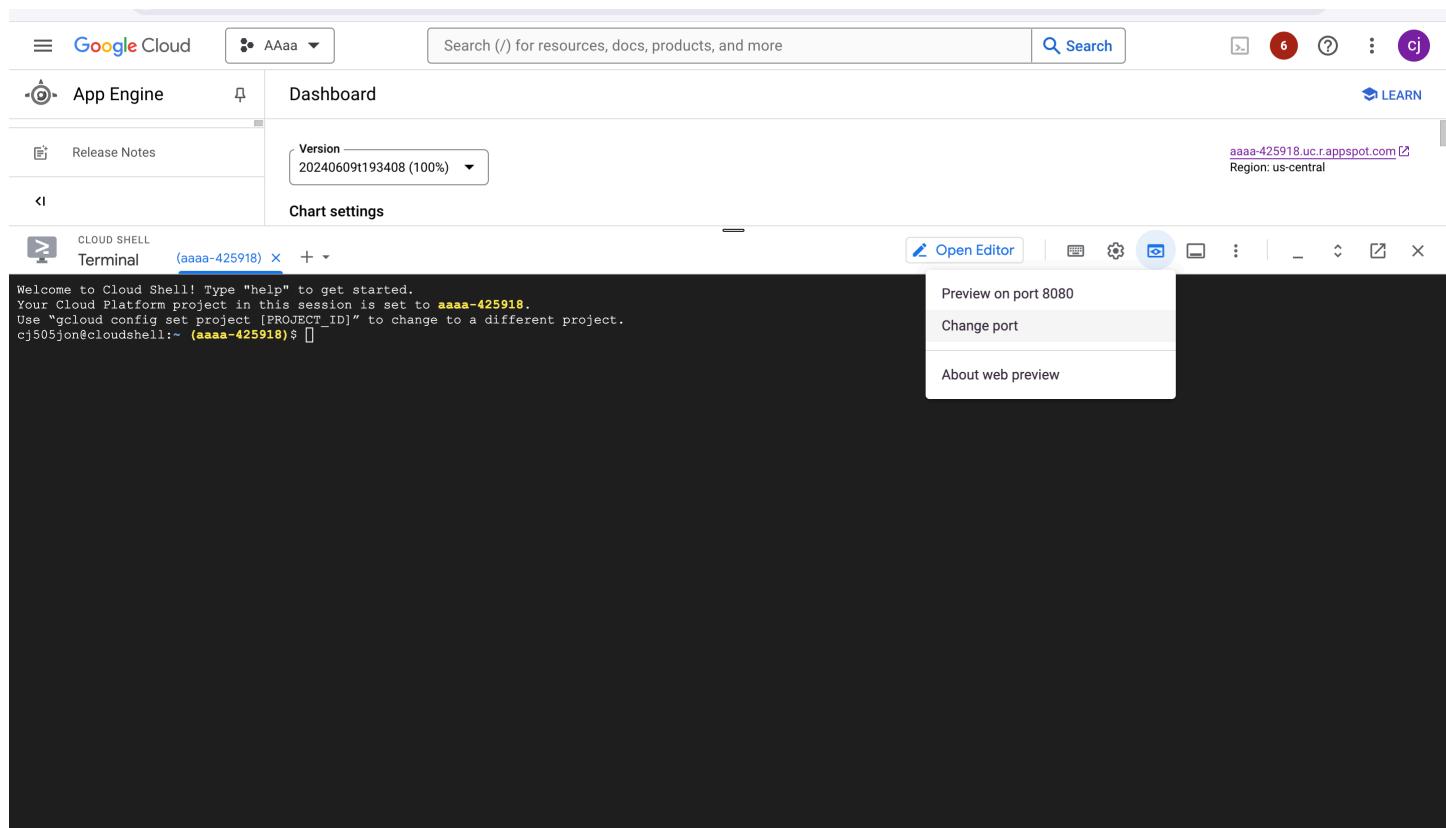
5-cd storage

6-ls

7-python main.py

```
push: cd: upload-app: No such file or directory
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ git clone https://github.com/CJ-2/upload-app.git
fatal: destination path 'upload-app' already exists and is not an empty directory.
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ ls
upload-app
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ cd upload-app
cj505jon@cloudshell:~/upload-app/upload-app (aaaa-425918)$ ls
README.md  storage
cj505jon@cloudshell:~/upload-app/upload-app (aaaa-425918)$ cd storage
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ ls
app.yaml  main.py  requirements.txt  templates  uploads
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ python main.py
 * Serving Flask app 'main'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://10.88.0.5:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 304-033-968
[]
```

change the port by



Google Cloud Aaaa ▾

Search (/) for resources, docs, products, and more

6 ? LEARN

App Engine App Engine

Release Notes

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CLOUD SHELL Terminal (aaaa-425918) +

```
cj505jon@cloudshell:~ (aaaa-425918)$ cd upload-app
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ ls
upload-app
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ cd storage
-bash: cd: storage: No such file or directory
cj505jon@cloudshell:~/upload-app (aaaa-425918)$
cj505jon@cloudshell:~/upload-app (aaaa-425918)$
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ Cd upload-app
-bash: Cd: command not found
cj505jon@cloudshell:~/upload-app (aaaa-425918)$
cj505jon@cloudshell:~/upload-app (aaaa-425918)$
cj505jon@cloudshell:~/upload-app (aaaa-425918)$
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ cd upload-app
-bash: cd: upload-app: No such file or directory
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ git clone https://git
fatal: destination path 'upload-app' already exists and is not an emp
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ ls
upload-app
cj505jon@cloudshell:~/upload-app (aaaa-425918)$ cd upload-app
cj505jon@cloudshell:~/upload-app/upload-app (aaaa-425918)$ ls
README.md storage
cj505jon@cloudshell:~/upload-app/upload-app (aaaa-425918)$ cd storage
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ ls
app.yaml main.py requirements.txt templates uploads
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ py
* Serving Flask app 'main'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://0.0.0.0:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 304-033-968
```

Change Preview Port

Port Number *

CANCEL CHANGE AND PREVIEW

Upload new File

No file chosen

[Explore Uploaded Files](#)

Return to shell and cmd: **CTRL+C**

then cmd: **clear**

The screenshot shows the Google Cloud Platform interface for the App Engine. At the top, there's a navigation bar with 'Google Cloud' and a search bar. Below it, a sidebar has 'App Engine' selected. The main area is titled 'Welcome to App Engine' with the sub-instruction 'Build scalable apps in any language on Google's infrastructure'. A terminal window is open, titled 'CLOUD SHELL Terminal (aaaa-425918)'. The terminal prompt shows 'cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)\$' followed by the command 'clear'.

cmd: ls

then

cmd: gcloud app deploy

This screenshot continues from the previous one. After the 'clear' command, the user runs 'ls' which lists files: 'app.yaml', 'main.py', 'requirements.txt', 'templates', and 'uploads'. Then, the user runs 'gcloud app deploy'.

cmd: enter y

Google Cloud App Engine App Engine

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CLOUD SHELL Terminal (aaaa-425918) +

```
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ ls
app.yaml main.py requirements.txt templates uploads
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ gcloud app deploy
ERROR: (gcloud.app.deploy) You do not currently have an active account selected.
Please run:
$ gcloud auth login
to obtain new credentials.

If you have already logged in with a different account, run:
$ gcloud config set account ACCOUNT
to select an already authenticated account to use.
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ gcloud app deploy
Services to deploy:

descriptor:      [/home/cj505jon/upload-app/upload-app/storage/app.yaml]
source:          [/home/cj505jon/upload-app/upload-app/storage]
target project: [aaaa-425918]
target service:  [default]
target version:  [20240609t193408]
target url:      [https://aaaa-425918.uc.r.appspot.com]
target service account: [aaaa-425918@appspot.gserviceaccount.com]

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

Google Cloud App Engine App Engine

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CLOUD SHELL Terminal (aaaa-425918) +

```
$ gcloud auth login
to obtain new credentials.

If you have already logged in with a different account, run:
$ gcloud config set account ACCOUNT
to select an already authenticated account to use.
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ gcloud app deploy
Services to deploy:

descriptor:      [/home/cj505jon/upload-app/upload-app/storage/app.yaml]
source:          [/home/cj505jon/upload-app/upload-app/storage]
target project: [aaaa-425918]
target service:  [default]
target version:  [20240609t193408]
target url:      [https://aaaa-425918.uc.r.appspot.com]
target service account: [aaaa-425918@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Uploading 8 files to Google Cloud Storage
12%
25%
38%
50%
62%
75%
88%
100%
100%
File upload done.
Updating service [default]...working.
```

Google Cloud Search (aaaa) App Engine App Engine LEARN

Release Notes

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CLOUD SHELL Terminal (aaaa-425918) +

```
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ gcloud app deploy
Services to deploy:
descriptor: [/home/cj505jon/upload-app/upload-app/storage/app.yaml]
source: [/home/cj505jon/upload-app/upload-app/storage]
target project: [aaaa-425918]
target service: [default]
target version: [20240609t193408]
target url: [https://aaaa-425918.uc.r.appspot.com]
target service account: [aaaa-425918@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Uploading 8 files to Google Cloud Storage
12%
25%
38%
50%
62%
75%
88%
100%
100%
File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://aaaa-425918.uc.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
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$
```

cmd: `gcloud app browse`

Google Cloud Search (aaaa) App Engine App Engine LEARN

Release Notes

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CLOUD SHELL Terminal (aaaa-425918) +

```
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ gcloud app browse
2/2
```

```
descriptor: [/home/cj505jon/upload-app/upload-app/storage/app.yaml]
source: [/home/cj505jon/upload-app/upload-app/storage]
target project: [aaaa-425918]
target service: [default]
target version: [20240609t193408]
target url: [https://aaaa-425918.uc.r.appspot.com]
target service account: [aaaa-425918@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
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To view your application in the web browser run:
$ gcloud app browse
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://aaaa-425918.uc.r.appspot.com
cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$
```

After that click on the link.

Google Cloud Aaaa Search (/) for resources, docs, products, and more gcloud app browse 2/2 LEARN

App Engine App Engine

Release Notes

Welcome to App Engine

Build scalable apps in any language on Google's infrastructure

CLOUD SHELL Terminal (aaaa-425918) + Open Editor

```
descriptor: [/home/cj505jon/upload-app/upload-app/storage/app.yaml]
source: [/home/cj505jon/upload-app/upload-app/storage]
target project: [aaaa-425918]
target service: [default]
target version: [20240609t193408]
target url: [https://aaaa-425918.uc.r.appspot.com]
target service account: [aaaa-425918@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Uploading 8 files to Google Cloud Storage
12%
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38%
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75%
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File upload done.
Updating service [default]...done.
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cj505jon@cloudshell:~/upload-app/upload-app/storage (aaaa-425918)$
```

Upload new File

No file chosen

[Explore Uploaded Files](#)

Go back to dashboard and select Versions.

Google Cloud AAaa ▾

Search (/) for resources, docs, products, and more

REFRESH DELETE STOP START MIGRATE TRAFFIC SPLIT TRAFFIC LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings

Filter Filter versions

Version	Status	Traffic Allocation	Instances	Runtime	Environment	Size	Service Account
20240609t193408	Serving	<div style="width: 100%;">100%</div>	1	python39	Standard	11.4 MB	aaaa-425918@appspot.gservicea...

Release Notes