

Google cloud platform project

Deploy your flask app on Google Cloud (App Engine)

by Abdulrahman Bawazeer

Guidelines:

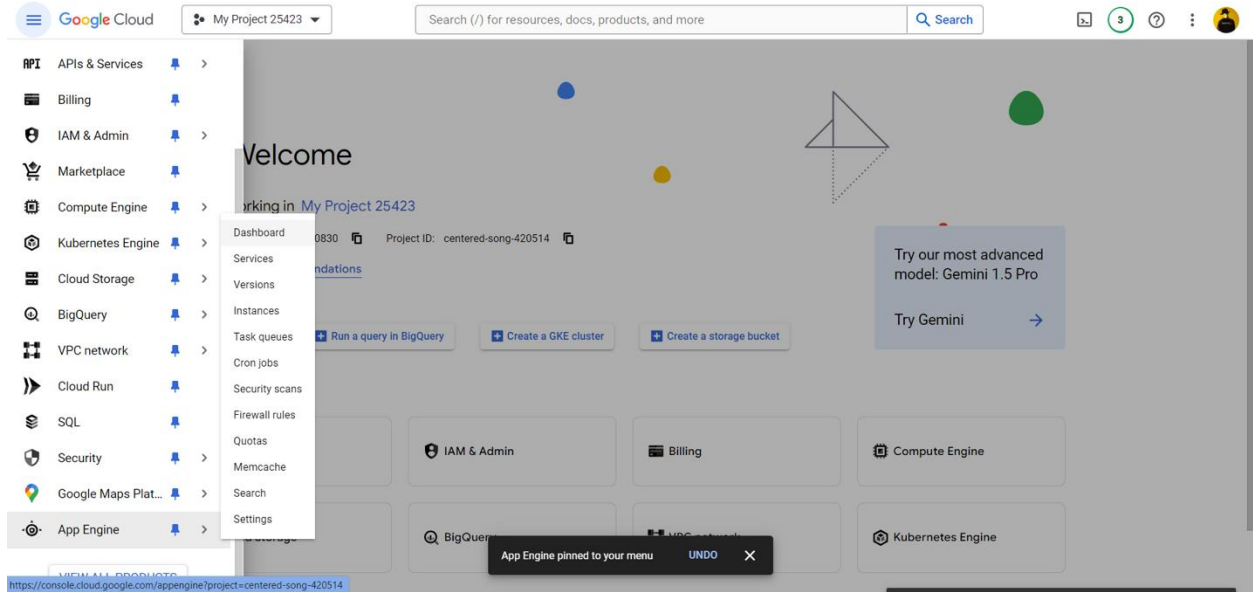
- First make your own GCP account.
- second after you make your account go to app engine and

create your application

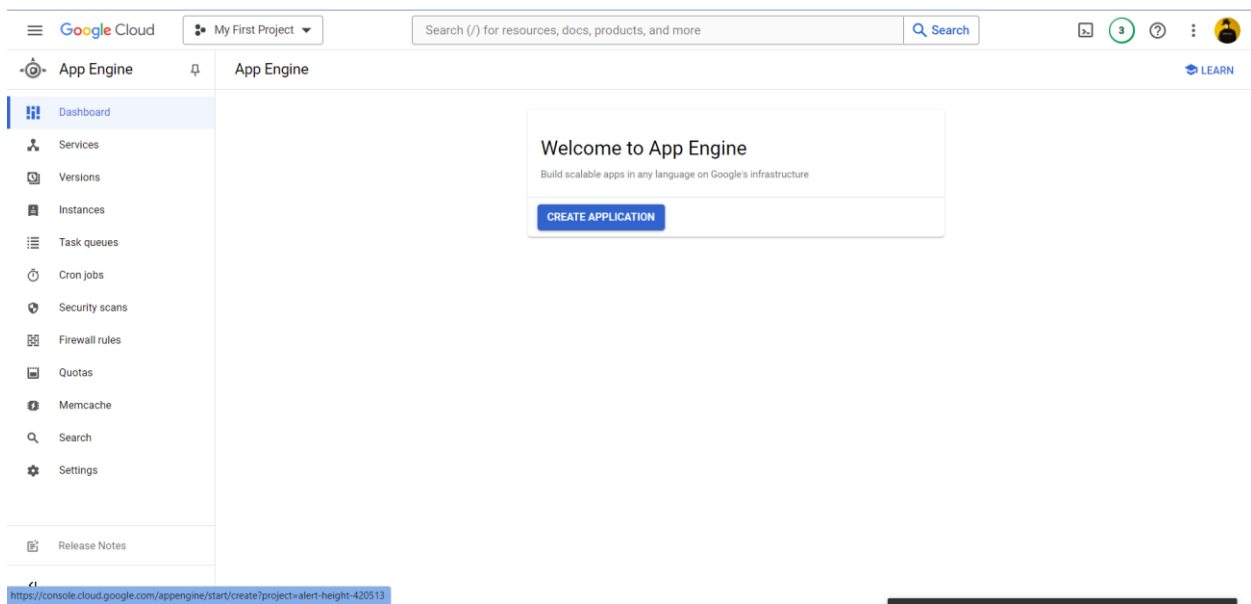
- third deploying your flask app

App Engine settings:

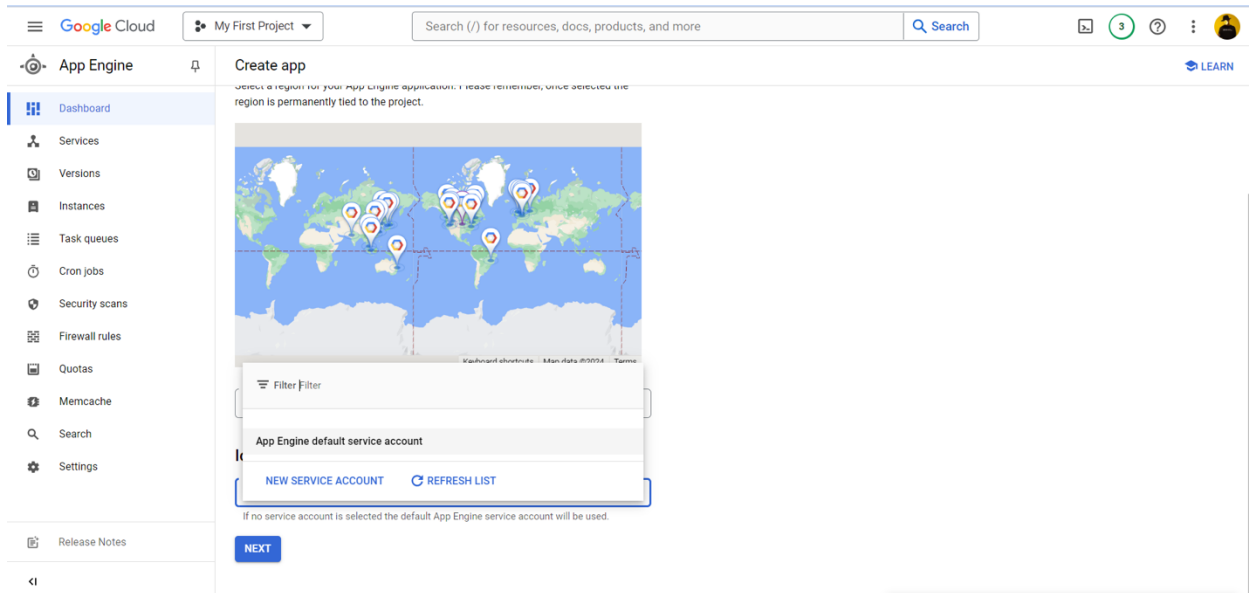
here you make your first application.



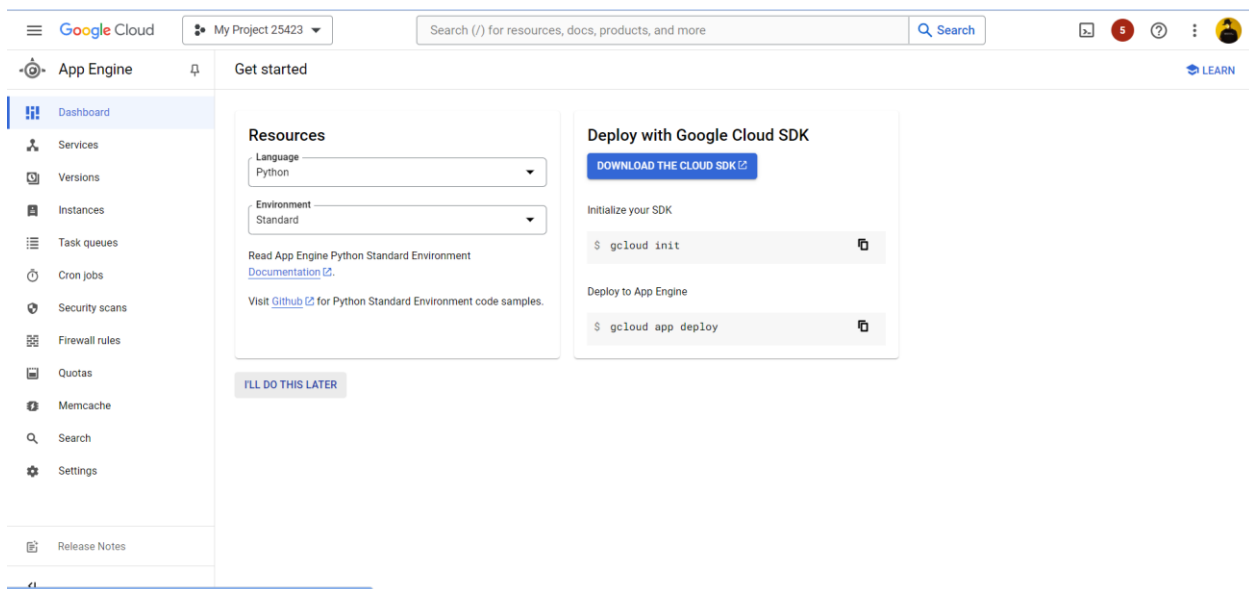
And click on create.



The application settings.

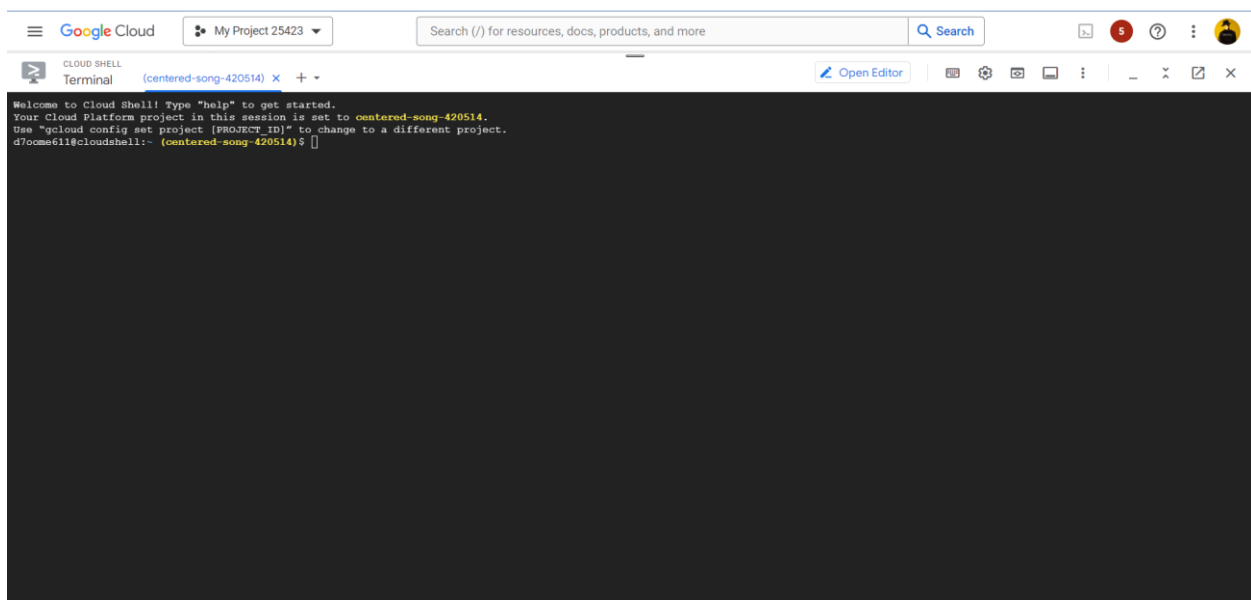
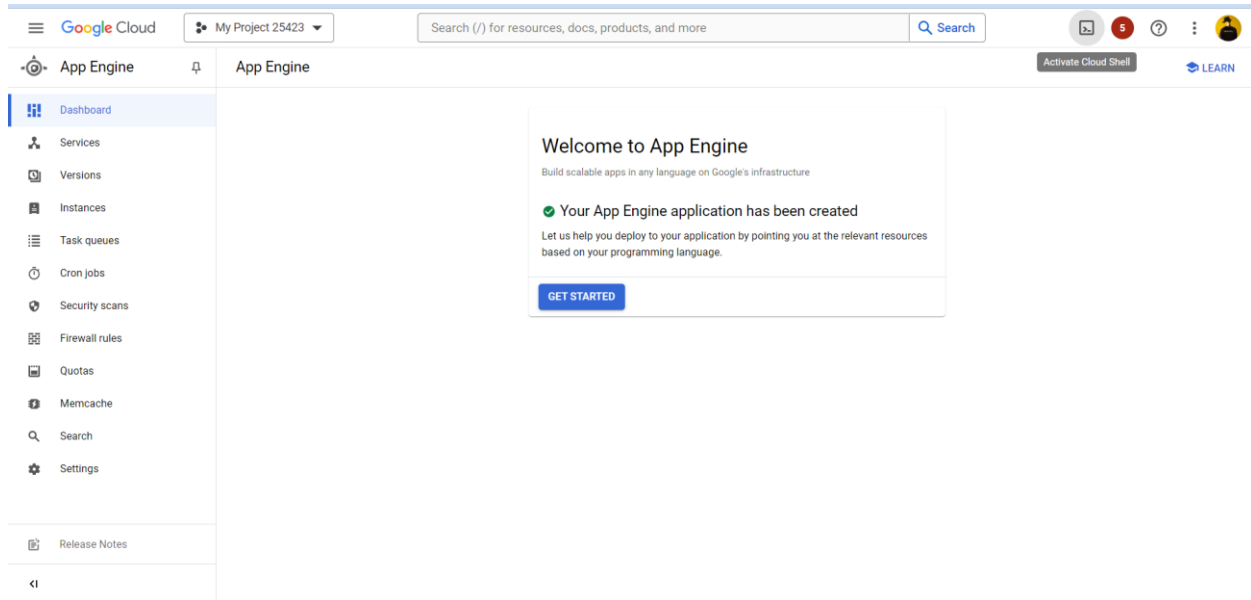


Choose the API access.



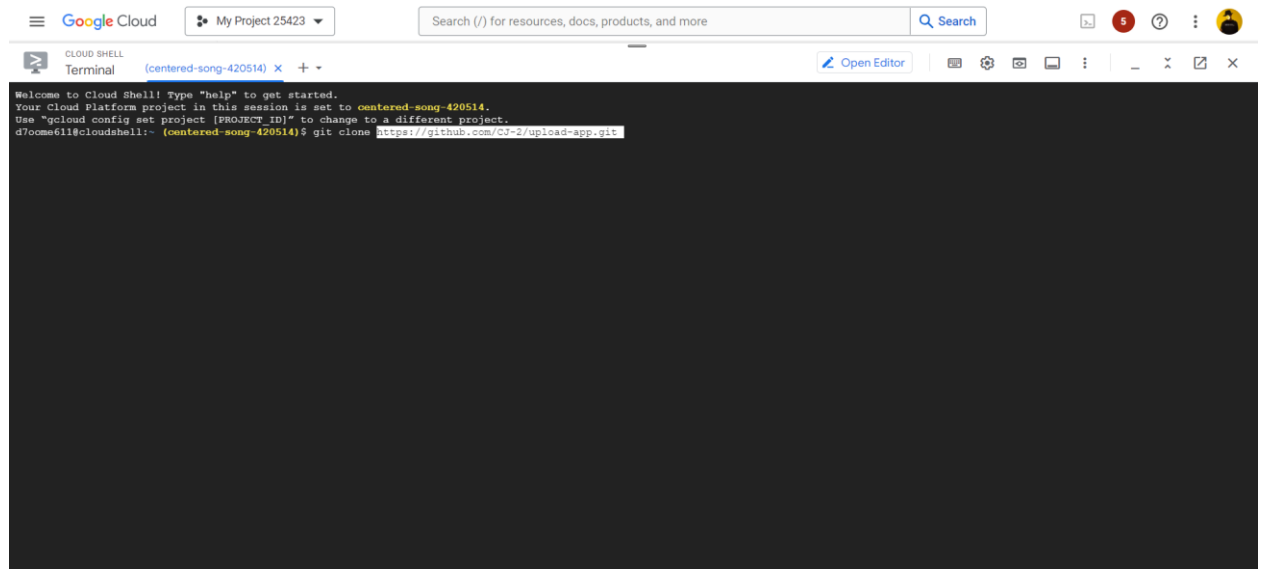
Cloud Shell:

After we create our first application

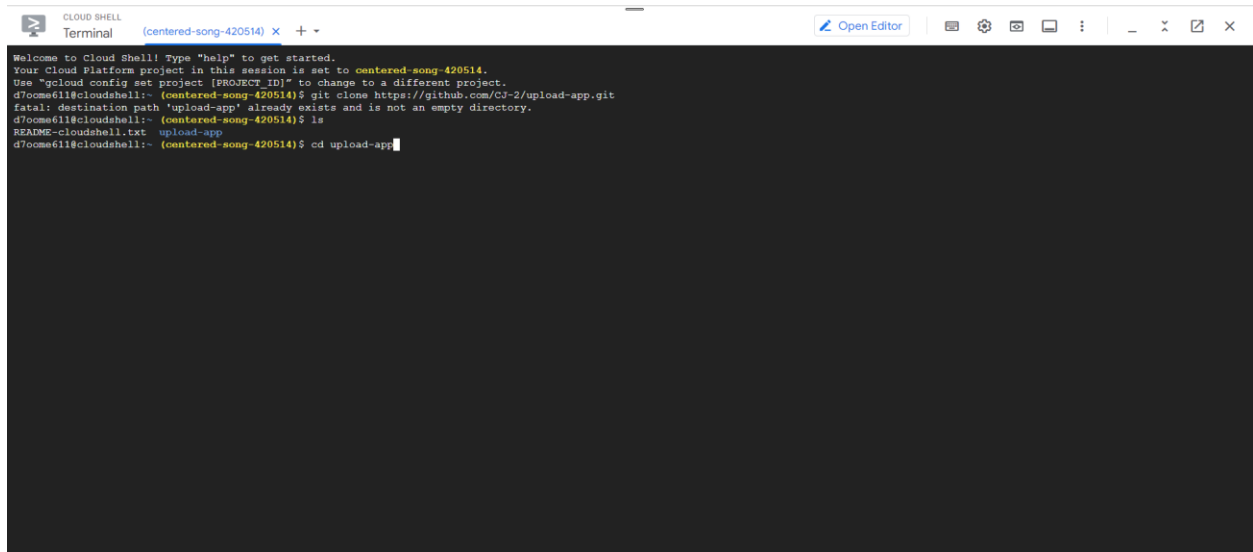


After we open the shell cmd:

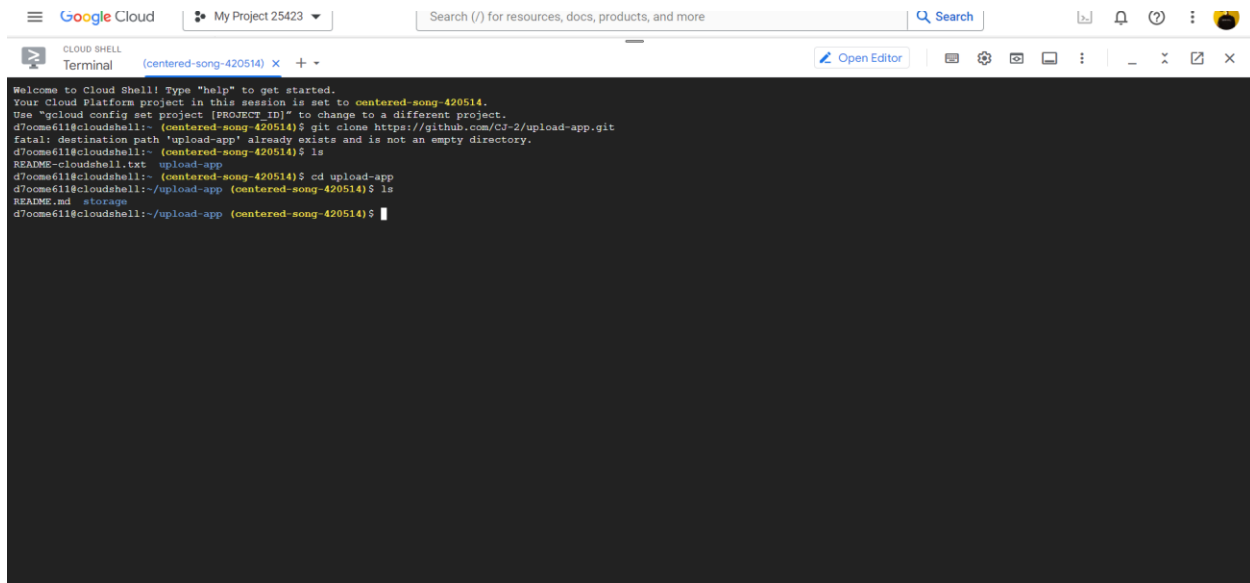
```
git clone https://github.com/CJ-2/upload-app.git
```



cmd: **ls**



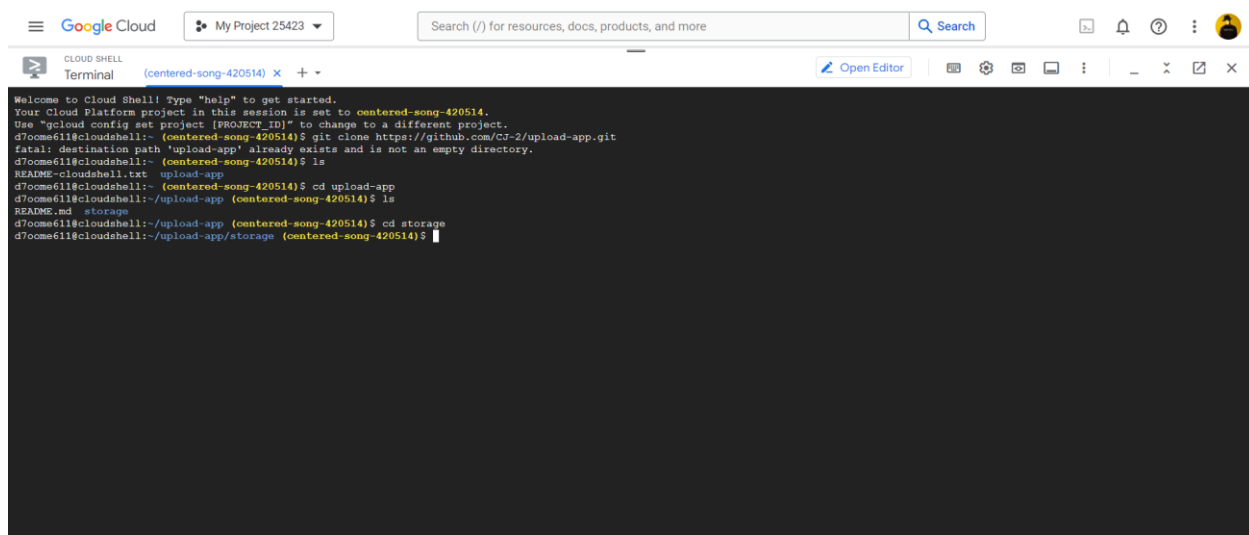
cmd: **cd upload-app**



The screenshot shows a Google Cloud Shell terminal window. The top bar includes the Google Cloud logo, 'My Project 25423', a search bar, and a 'Search' button. The terminal title is 'Terminal (centered-song-420514)'. The terminal output shows a welcome message, followed by the user cloning a repository and attempting to run 'ls' in the 'upload-app' directory. A fatal error occurs because the directory already exists. The user then runs 'cd upload-app' successfully, and the prompt changes to reflect the new directory.

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to centered-song-420514.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
d7ocme611@cloudshell:~ (centered-song-420514)$ git clone https://github.com/CJ-2/upload-app.git
fatal: destination path 'upload-app' already exists and is not an empty directory.
d7ocme611@cloudshell:~ (centered-song-420514)$ ls
README-cloudshell.txt  upload-app
d7ocme611@cloudshell:~ (centered-song-420514)$ cd upload-app
d7ocme611@cloudshell:~/upload-app (centered-song-420514)$ ls
README.md  storage
d7ocme611@cloudshell:~/upload-app (centered-song-420514)$
```

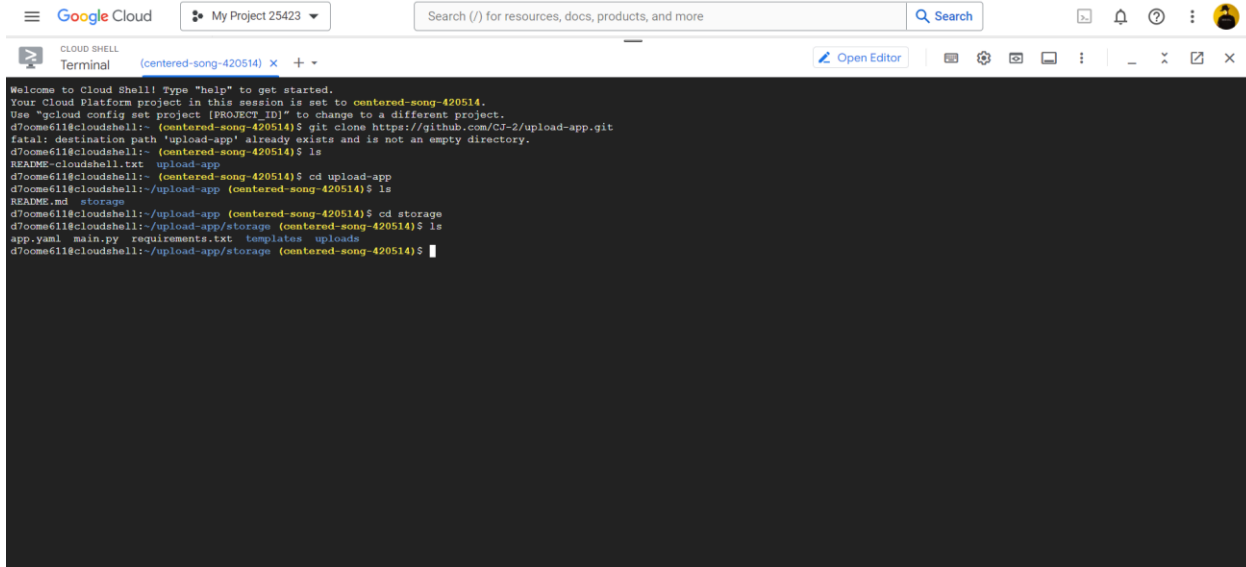
cmd: **ls**



The screenshot shows a Google Cloud Shell terminal window. The top bar includes the Google Cloud logo, 'My Project 25423', a search bar, and a 'Search' button. The terminal title is 'Terminal (centered-song-420514)'. The terminal output shows a welcome message, followed by the user cloning a repository and attempting to run 'ls' in the 'upload-app' directory. A fatal error occurs because the directory already exists. The user then runs 'cd upload-app' successfully, and the prompt changes to reflect the new directory. The user then runs 'ls' in the 'upload-app' directory, and the output shows 'README.md' and 'storage'. The user then runs 'cd storage' successfully, and the prompt changes to reflect the new directory.

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to centered-song-420514.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
d7ocme611@cloudshell:~ (centered-song-420514)$ git clone https://github.com/CJ-2/upload-app.git
fatal: destination path 'upload-app' already exists and is not an empty directory.
d7ocme611@cloudshell:~ (centered-song-420514)$ ls
README-cloudshell.txt  upload-app
d7ocme611@cloudshell:~ (centered-song-420514)$ cd upload-app
d7ocme611@cloudshell:~/upload-app (centered-song-420514)$ ls
README.md  storage
d7ocme611@cloudshell:~/upload-app (centered-song-420514)$ cd storage
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$
```

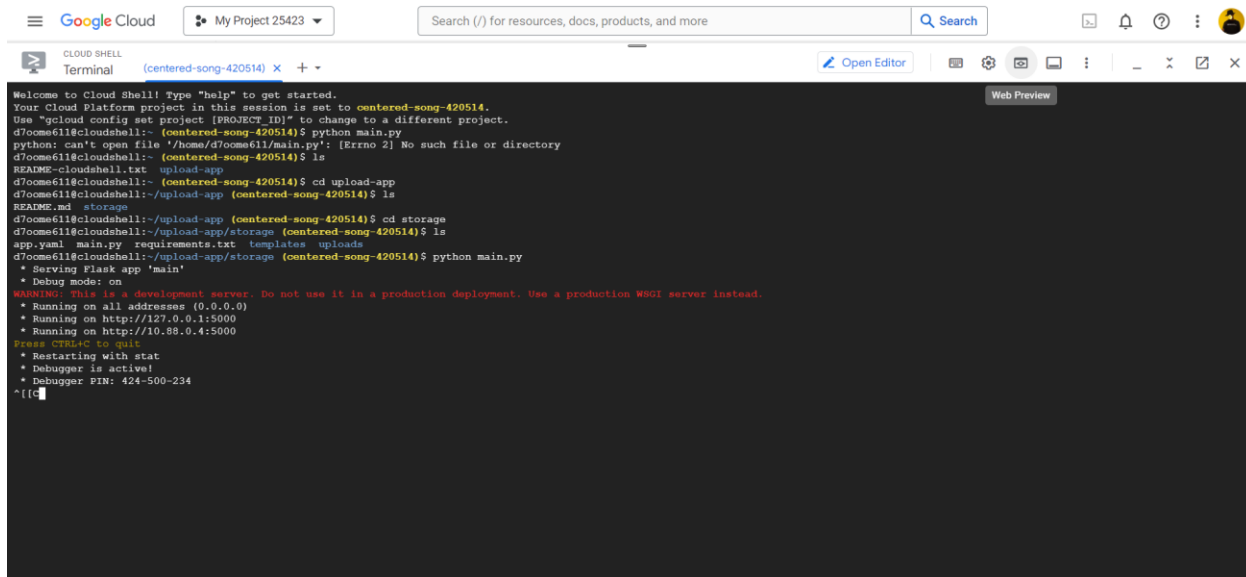
cmd: **cd storage**



The screenshot shows a Google Cloud Shell terminal window. The terminal output is as follows:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to centered-song-420514.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
d70cme611@cloudshell:~ (centered-song-420514)$ git clone https://github.com/CI-2/upload-app.git
fatal: destination path 'upload-app' already exists and is not an empty directory.
d70cme611@cloudshell:~ (centered-song-420514)$ ls
README-cloudshell.txt  upload-app
d70cme611@cloudshell:~ (centered-song-420514)$ cd upload-app
d70cme611@cloudshell:~/upload-app (centered-song-420514)$ ls
README.md  storage
d70cme611@cloudshell:~/upload-app (centered-song-420514)$ cd storage
d70cme611@cloudshell:~/upload-app/storage (centered-song-420514)$ ls
app.yaml  main.py  requirements.txt  templates  uploads
d70cme611@cloudshell:~/upload-app/storage (centered-song-420514)$
```

cmd: **ls**



The screenshot shows a Google Cloud Shell terminal window. The terminal output is as follows:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to centered-song-420514.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
d70cme611@cloudshell:~ (centered-song-420514)$ python main.py
python: can't open file '/home/d70cme611/main.py': [Errno 2] No such file or directory
d70cme611@cloudshell:~ (centered-song-420514)$ ls
README-cloudshell.txt  upload-app
d70cme611@cloudshell:~ (centered-song-420514)$ cd upload-app
d70cme611@cloudshell:~/upload-app (centered-song-420514)$ ls
README.md  storage
d70cme611@cloudshell:~/upload-app (centered-song-420514)$ cd storage
d70cme611@cloudshell:~/upload-app/storage (centered-song-420514)$ ls
app.yaml  main.py  requirements.txt  templates  uploads
d70cme611@cloudshell:~/upload-app/storage (centered-song-420514)$ 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://10.88.0.4:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 424-500-234
^[[C
```

cmd: **python main.py**

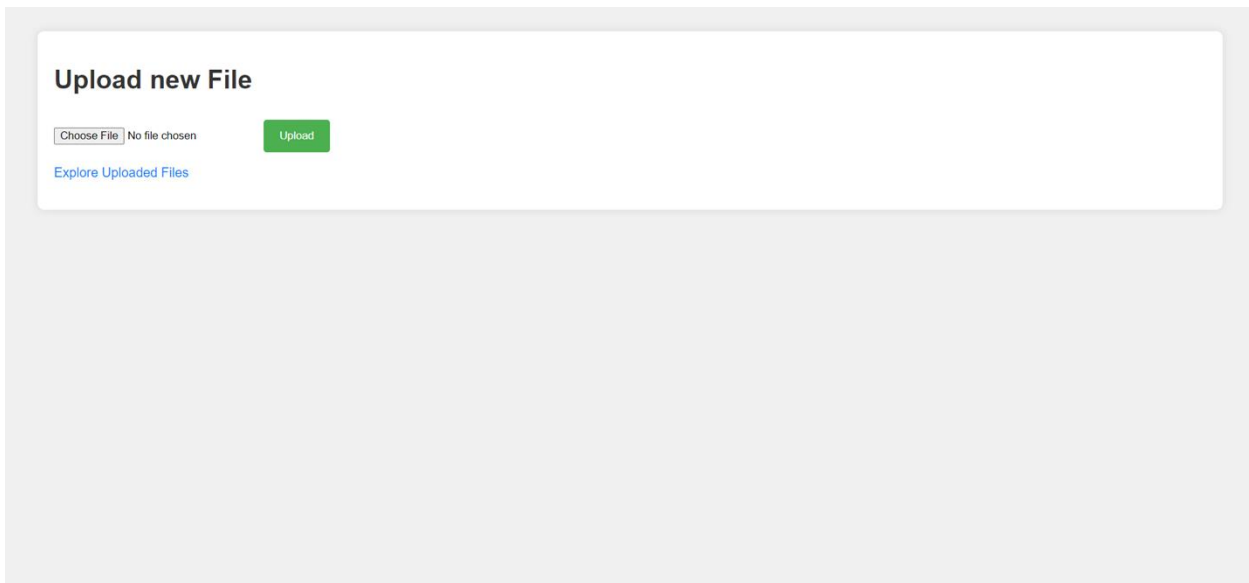
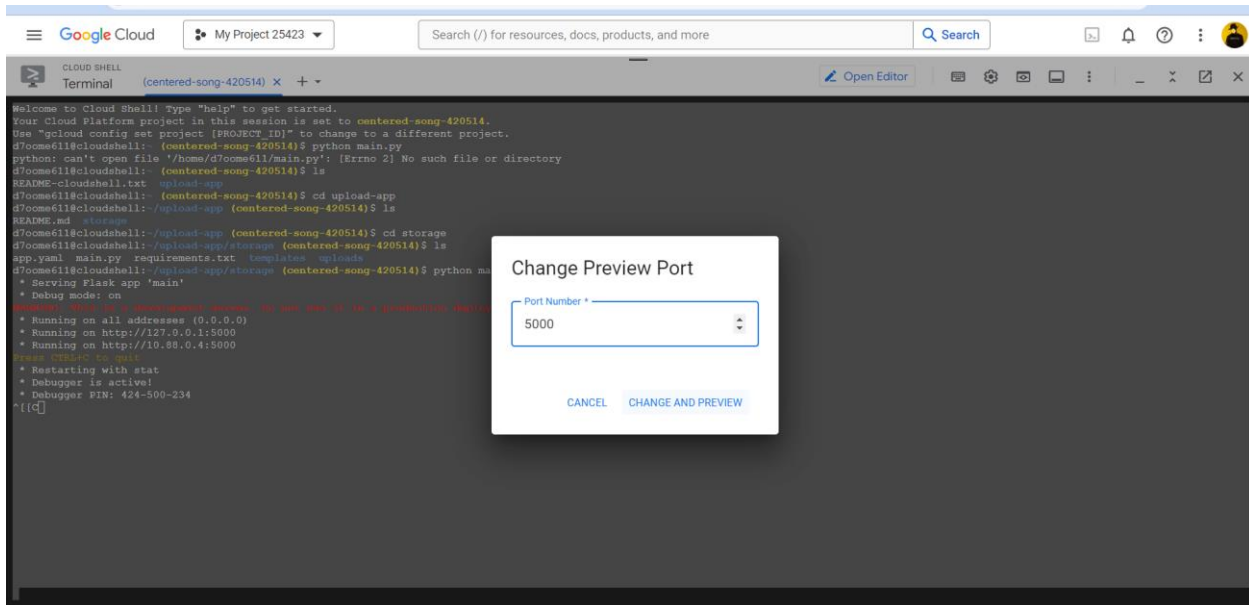
The screenshot shows a Google Cloud Shell terminal window. The terminal output is as follows:

```
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to centered-song-420514.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
d70cme611@cloudshell:~$ python main.py
python: can't open file '/home/d70cme611/main.py': [Errno 2] No such file or directory
d70cme611@cloudshell:~$ ls
README-cloudshell.txt  upload-app
d70cme611@cloudshell:~$ cd upload-app
d70cme611@cloudshell:~/upload-app$ ls
README.md  storage
d70cme611@cloudshell:~/upload-app$ cd storage
d70cme611@cloudshell:~/upload-app/storage$ ls
app.yaml  main.py  requirements.txt  templates  uploads
d70cme611@cloudshell:~/upload-app/storage$ 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://10.88.0.4:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 424-500-234
^[[C]
```

A web preview overlay is visible on the right side of the terminal, showing the following options:

- Preview on port 8080
- Change port
- About web preview

This screenshot is identical to the one above, showing the same terminal output and web preview overlay in the Google Cloud Shell environment.



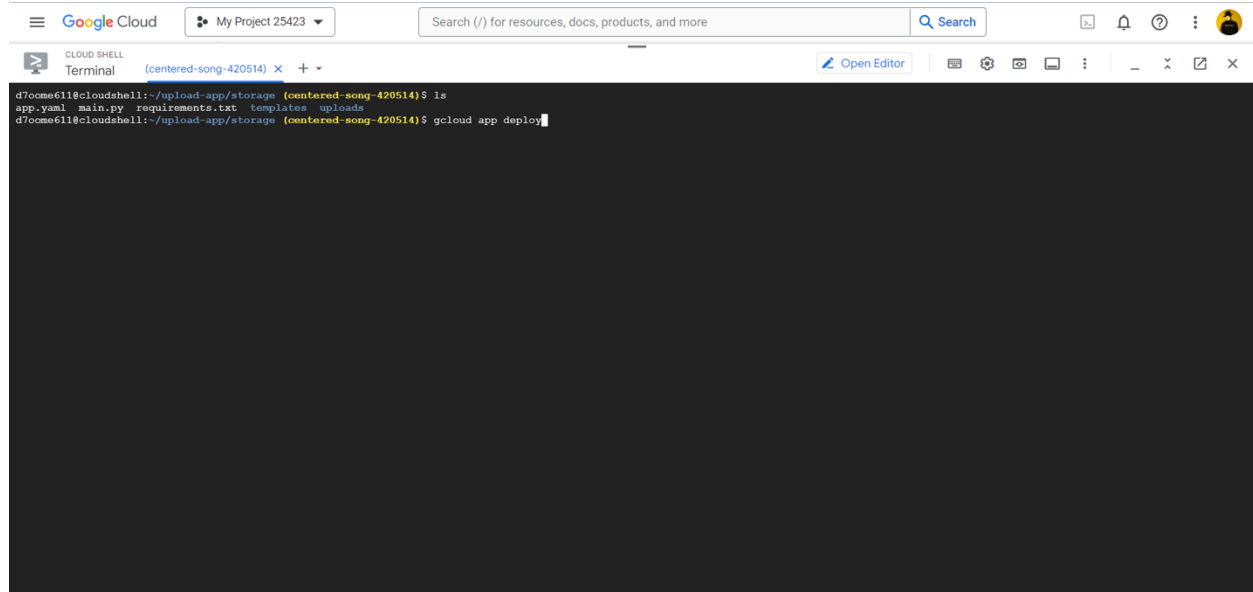
Return to shell and cmd: **CTRL+C**

```
Google Cloud My Project 25423 Search (/) for resources, docs, products, and more
CLOUD SHELL Terminal (centered-song-420514) x + v
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to centered-song-420514.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
d7oome611@cloudshell:~ (centered-song-420514) $ python main.py
python: can't open file '/home/d7oome611/main.py': [Errno 2] No such file or directory
d7oome611@cloudshell:~ (centered-song-420514) $ ls
README cloudshell.txt upload-app
d7oome611@cloudshell:~ (centered-song-420514) $ cd upload-app
d7oome611@cloudshell:~/upload-app (centered-song-420514) $ ls
README.md storage
d7oome611@cloudshell:~/upload-app (centered-song-420514) $ cd storage
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ ls
app.yaml main.py requirements.txt templates uploads
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ 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://192.58.0.4:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 424-500-234
[[{"cli27.0.0.1 - - [09/Jun/2024 09:13:55] "GET /?authuser=0&redirectedPreviously=true HTTP/1.1" 200 -
127.0.0.1 - - [09/Jun/2024 09:13:55] "GET /favicon.ico HTTP/1.1" 404 -
^Cd7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ clear
```

cmd: **clear**

```
console.cloud.google.com/appengine?serviceId=default&organizationId=0&project=centered-song-420514&cloudshell=true
Google Cloud My Project 25423 Search (/) for resources, docs, products, and more
CLOUD SHELL Terminal (centered-song-420514) x + v
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ ls
```

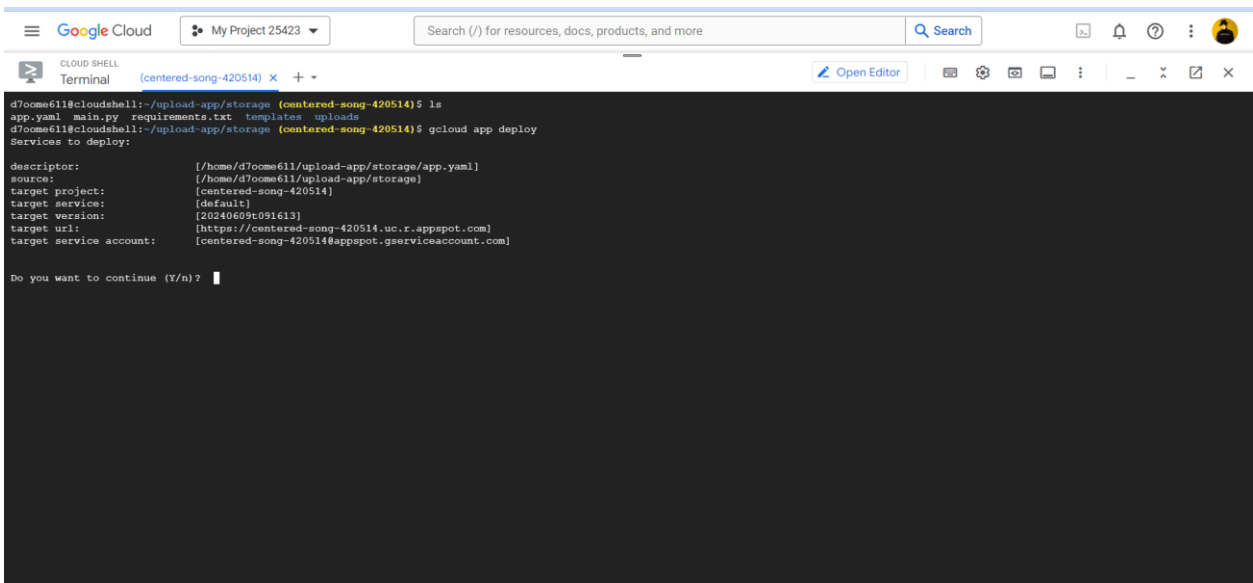
cmd: ls



The screenshot shows the Google Cloud Platform Cloud Shell interface. The terminal window is titled "Terminal" and shows the following commands and output:

```
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ ls
app.yaml  main.py  requirements.txt  templates  uploads
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ gcloud app deploy
```

cmd: gcloud app deploy



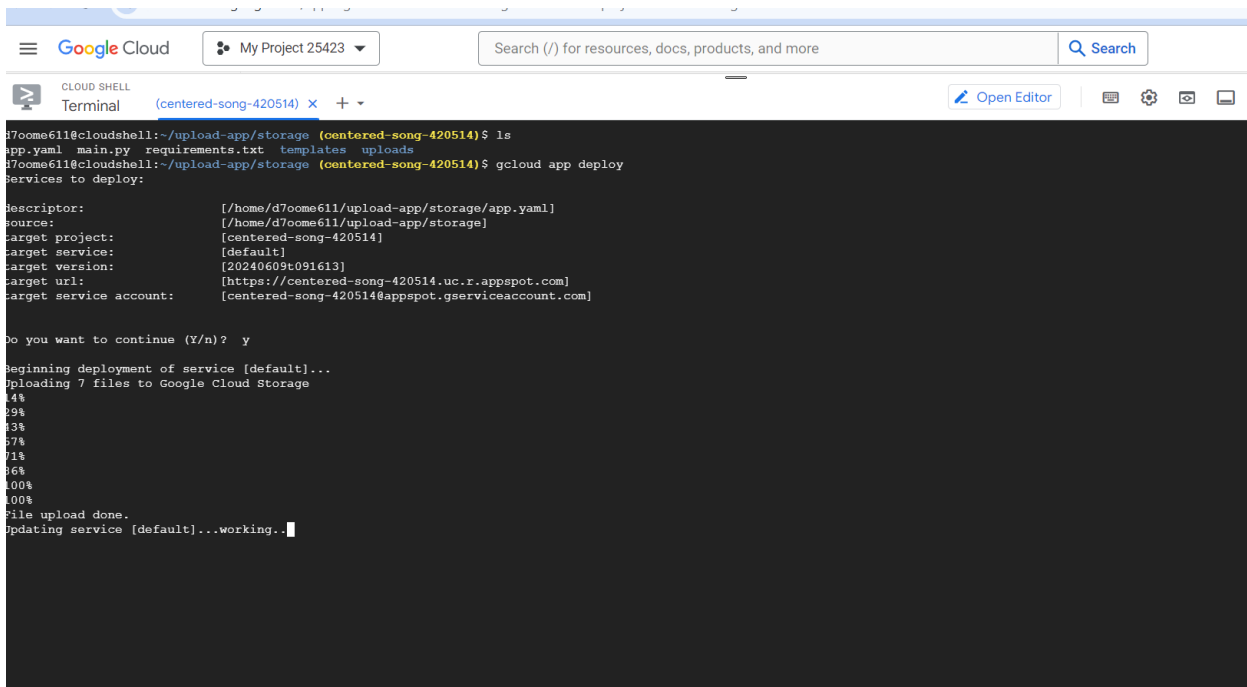
The screenshot shows the Google Cloud Platform Cloud Shell interface. The terminal window is titled "Terminal" and shows the following commands and output:

```
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ ls
app.yaml  main.py  requirements.txt  templates  uploads
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ gcloud app deploy
Services to deploy:

descriptor:      [/home/d7oome611/upload-app/storage/app.yaml]
source:          [/home/d7oome611/upload-app/storage]
target project:  [centered-song-420514]
target service:  [default]
target version:  [20240609t091613]
target url:      [https://centered-song-420514.uc.r.appspot.com]
target service account: [centered-song-420514@appspot.gserviceaccount.com]

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

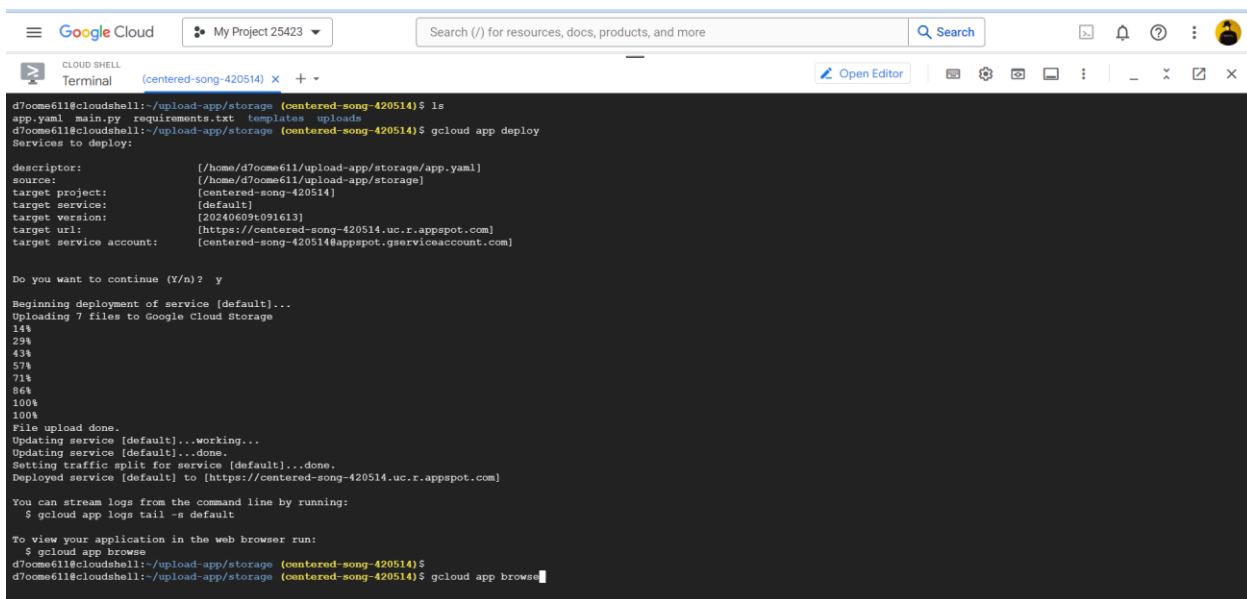
cmd: enter y



```
Google Cloud My Project 25423 Search (/) for resources, docs, products, and more Search
CLOUD SHELL Terminal (centered-song-420514) +
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ ls
app.yaml main.py requirements.txt templates uploads
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ gcloud app deploy
Services to deploy:

descriptor:      [/home/d7oome611/upload-app/storage/app.yaml]
source:          [/home/d7oome611/upload-app/storage]
target project:  [centered-song-420514]
target service:  [default]
target version:  [20240609t091613]
target url:      [https://centered-song-420514.uc.r.appspot.com]
target service account: [centered-song-420514@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Uploading 7 files to Google Cloud Storage
14%
29%
43%
57%
71%
86%
100%
File upload done.
Updating service [default]...working..
```



```
Google Cloud My Project 25423 Search (/) for resources, docs, products, and more Search
CLOUD SHELL Terminal (centered-song-420514) +
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ ls
app.yaml main.py requirements.txt templates uploads
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ gcloud app deploy
Services to deploy:

descriptor:      [/home/d7oome611/upload-app/storage/app.yaml]
source:          [/home/d7oome611/upload-app/storage]
target project:  [centered-song-420514]
target service:  [default]
target version:  [20240609t091613]
target url:      [https://centered-song-420514.uc.r.appspot.com]
target service account: [centered-song-420514@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Uploading 7 files to Google Cloud Storage
14%
29%
43%
57%
71%
86%
100%
File upload done.
Updating service [default]...working...
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://centered-song-420514.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
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $
d7oome611@cloudshell:~/upload-app/storage (centered-song-420514) $ gcloud app browse
```

```
Google Cloud | My Project 25423 | Search (/) for resources, docs, products, and more | Search | [Icons]

CLOUD SHELL
Terminal (centered-song-420514) x +
Open Editor | [Icons]

d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$ gcloud app deploy
Services to deploy:

descriptor:      [/home/d7ocme611/upload-app/storage/app.yaml]
source:          [/home/d7ocme611/upload-app/storage]
target project:  [centered-song-420514]
target service:  [default]
target version:  [20240609t091613]
target url:      [https://centered-song-420514.uc.r.appspot.com]
target service account: [centered-song-420514@appspot.gserviceaccount.com]

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

Beginning deployment of service [default]...
Uploading 7 files to Google Cloud Storage
14%
29%
43%
57%
71%
86%
100%
File upload done.
Updating service [default]...working...
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://centered-song-420514.uc.r.appspot.com]

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$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://centered-song-420514.uc.r.appspot.com
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$
```

cmd: **gcloud app browse**

```
Google Cloud | My Project 25423 | Search (/) for resources, docs, products, and more | Search | [Icons]

CLOUD SHELL
Terminal (centered-song-420514) x +
Open Editor | [Icons]

d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$ gcloud app deploy
Services to deploy:

descriptor:      [/home/d7ocme611/upload-app/storage/app.yaml]
source:          [/home/d7ocme611/upload-app/storage]
target project:  [centered-song-420514]
target service:  [default]
target version:  [20240609t091613]
target url:      [https://centered-song-420514.uc.r.appspot.com]
target service account: [centered-song-420514@appspot.gserviceaccount.com]

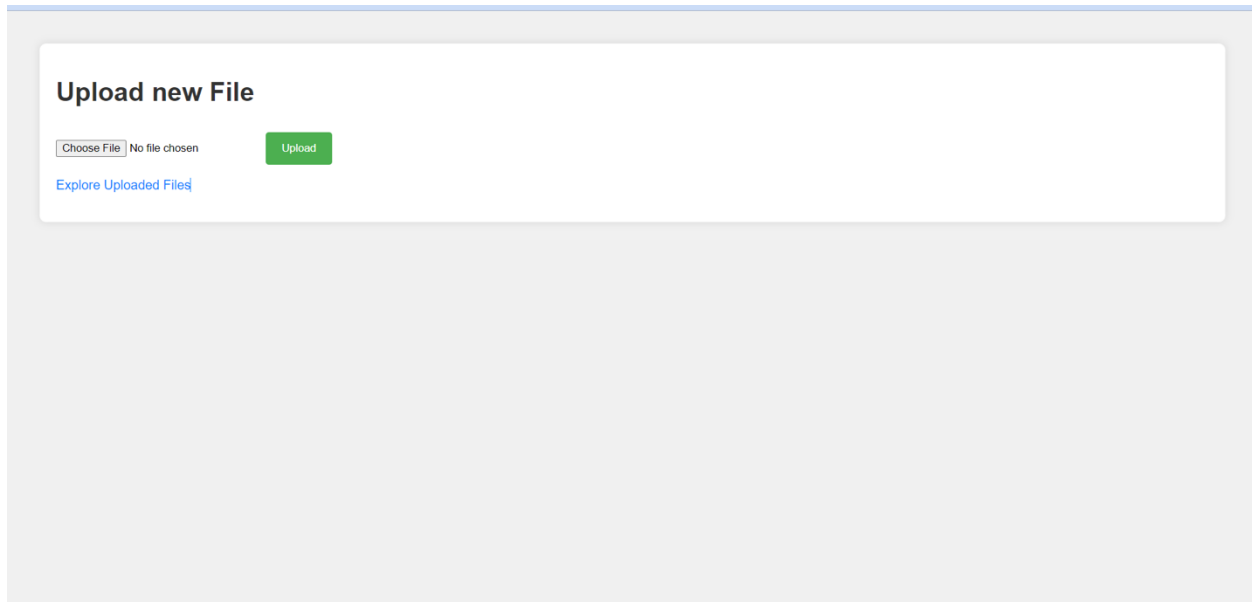
Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Uploading 7 files to Google Cloud Storage
14%
29%
43%
57%
71%
86%
100%
File upload done.
Updating service [default]...working...
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://centered-song-420514.uc.r.appspot.com]

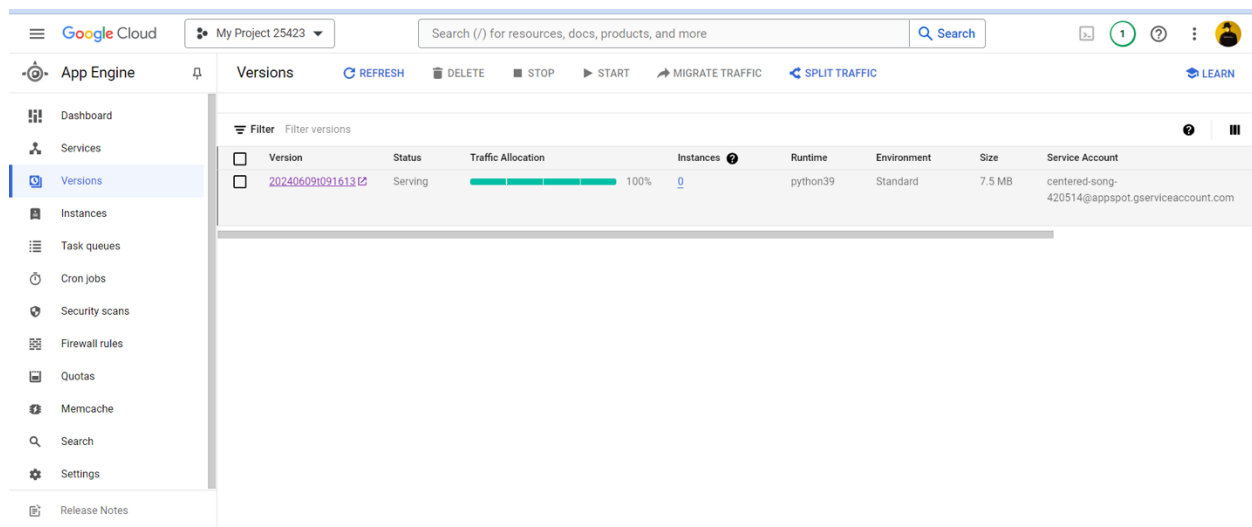
You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$ gcloud app browse
Did not detect your browser. Go to this link to view your app:
https://centered-song-420514.uc.r.appspot.com
d7ocme611@cloudshell:~/upload-app/storage (centered-song-420514)$
```

And now your app is deployed congratulations.



Go back to dashboard and select Versions.



I hope that the project will help you.