

## 1. Create app on the App Engine

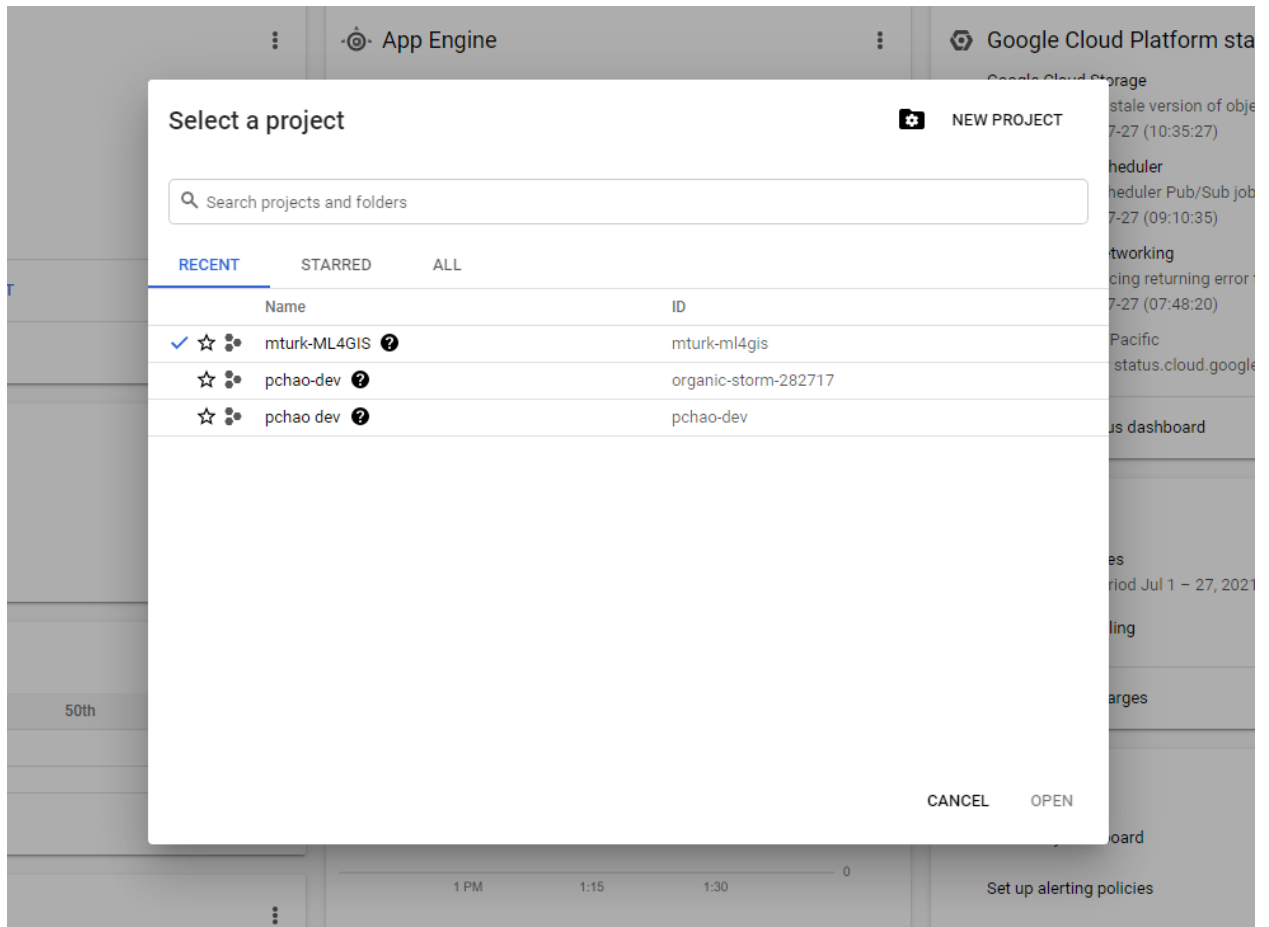
Go to Google's App Engine Console and create a new project:

The screenshot shows the Google Cloud Platform console interface. At the top, there's a blue header with 'Google Cloud Platform' and a search bar. Below the header, a notification states: 'Home is a cross-project view not scoped to a specific project. Your project selection will be applied when navigating from this page.' The main content area includes a 'Hello, P' greeting, a 'Quick access' section with links to 'Cloud Storage Browser', 'Browser - Cloud Storage - pchao-dev', 'App Engine Dashboard', and 'Versions', and a 'Recent projects' table. The table lists three projects: 'mturk-ML4GIS', 'pchao-dev', and 'pchao dev'. The 'Billing' section at the bottom shows the current cost of \$3.39 for July 1 - 22, 2021, with a forecast of \$4.23. A 'View projects' link is also present.

Project	ID	Number
mturk-ML4GIS	mturk-ml4gis	94751792561
pchao-dev	organic-storm-282717	552709309808
pchao dev	pchao-dev	442040859963

	Actual	Forecast
Jul	\$3.39	\$4.23
Jun		\$0.00

Click on NEW PROJECT at the top right



Name your project and click CREATE

## New Project



You have 21 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name \*

test



Project ID: hale-acumen-321118. It cannot be changed later. [EDIT](#)

Location \*



No organization

[BROWSE](#)

Parent organization or folder

**CREATE**

CANCEL

Click on CREATE APPLICATION

Pick any region you prefer

Select Node.js on the Language dropdown, and leave the Environment as Standard

2. Clone our app's source code from GitHub

Open up the Cloud Shell by clicking on the icon near the top right

Google Cloud Platform status

**Google Cloud Storage**  
GCS is returning stale version of object for bucket in us-central1  
Began at 2021-07-27 (10:35:27)

**Google Cloud Scheduler**  
Global: Cloud Scheduler Pub/Sub jobs fail with permission denied  
Began at 2021-07-27 (09:10:35)

**Google Cloud Networking**  
HTTP load balancing returning error for some user in Europe.  
Began at 2021-07-27 (07:48:20)

All times are US/Pacific  
Data provided by status.cloud.google.com

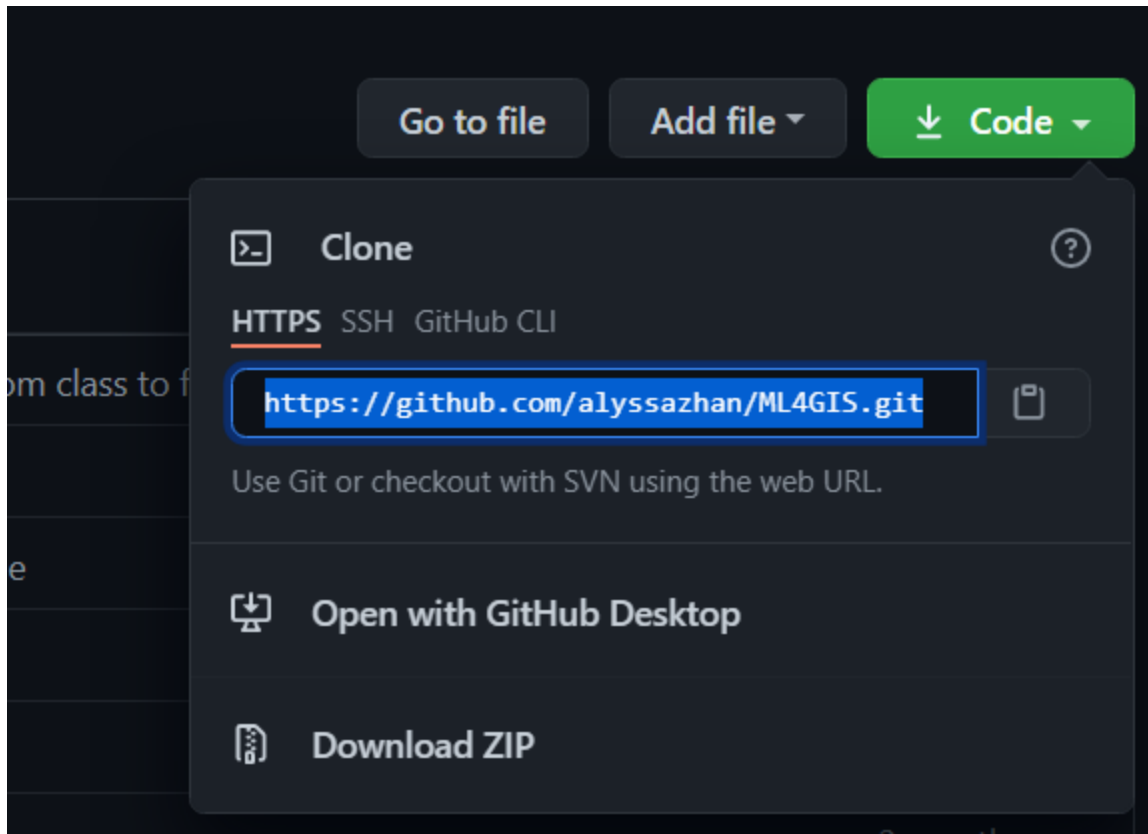
→ Go to Cloud status dashboard

**Billing**

Estimated charges USD \$0.00  
For the billing period Jul 1 - 27, 2021

Take a tour of billing

After your shell is opened, clone the code into the cloud. And you can find the url in your github repository by clicking Code



git clone <<https://github.com/xxxx.git>>

3. Build our app for deployment

Go into the app's root folder (where your "src" folder is)

cd <your github project folder> => cd ML4GIS

cd <your app's root directory> => cd src

(You can always check all the files/folders by ls)

And type the following command:

npm i

npm run build

This creates a folder named "build" in our root directory.

4. Delete everything else besides the build folder (Optional)

Get rid of everything else, except for the build folder.

rm <file-to-remove>

rm -r <remove-recursively-directories-inside-directories>

5. Add an app.yaml and deploy!

In the same folder where we have our "build" folder, create a new file named app.yaml.

By the end of this step, the only things left should be the "build" folder and "app.yaml".

That's all the App Engine will need to run our app.

touch app.yaml (create a file named app.yaml)

vim app.yaml (open app.yaml with Vim which is a text editor)

And insert the following to its content:

runtime: nodejs12

handlers:

# Serve all static files with url ending with a file extension

- url: /(.\*\..+)\$

static\_files: build/\1

upload: build/(.\*\..+)\$

# Catch all handler to index.html

- url: /\*

static\_files: build/index.html

upload: build/index.html

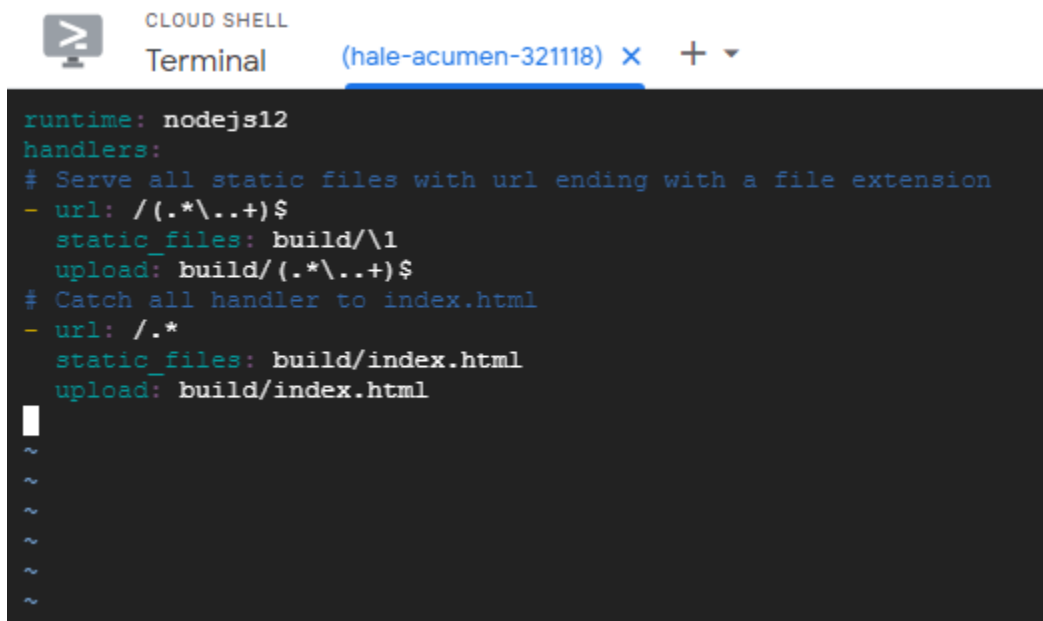
In case you've never used vim or simply forgot:

i (to insert text)

(ctr+v to paste above code)

(esc key to exit insert mode)

:wq! (type exactly :wq! to save and exit file)



The screenshot shows a Cloud Shell terminal window with the title "Terminal (hale-acumen-321118)". The terminal content is as follows:

```
runtime: nodejs12
handlers:
# Serve all static files with url ending with a file extension
- url: /(.*\..+)$
  static_files: build/\1
  upload: build/(.*\..+)$
# Catch all handler to index.html
- url: /*
  static_files: build/index.html
  upload: build/index.html
```

6. Now deploy!

gcloud app deploy

In the dashboard, at the top right, you'll see a link to your app.

Reference:

[5 Step Guide To Deploy Your React App On Google's App Engine | by Roberto Herman](#)