

Week5

September 25, 2023

1 Week 5: Model Deployment on Google Cloud by Connor Bryson

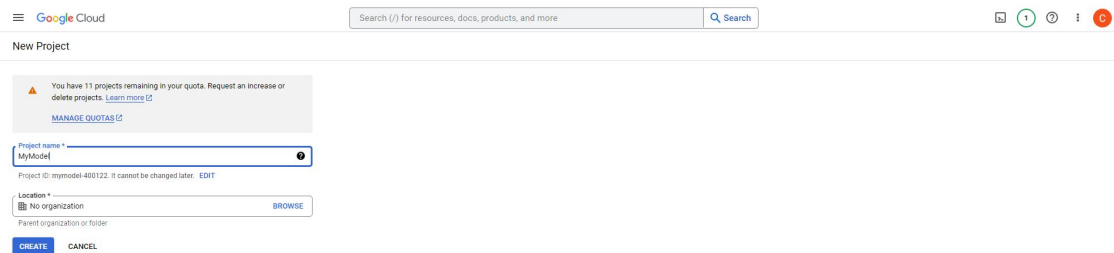
1.1 LISUM25

1.1.1 10 5 23 Due Date

1.2 Steps for Deployment

2 First I chose Google Cloud for my depolyment and set up an account

2.1 Then I created my model on google cloud and installed the Google Cloud SDK Shell



Google Cloud

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

Search

New Project

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

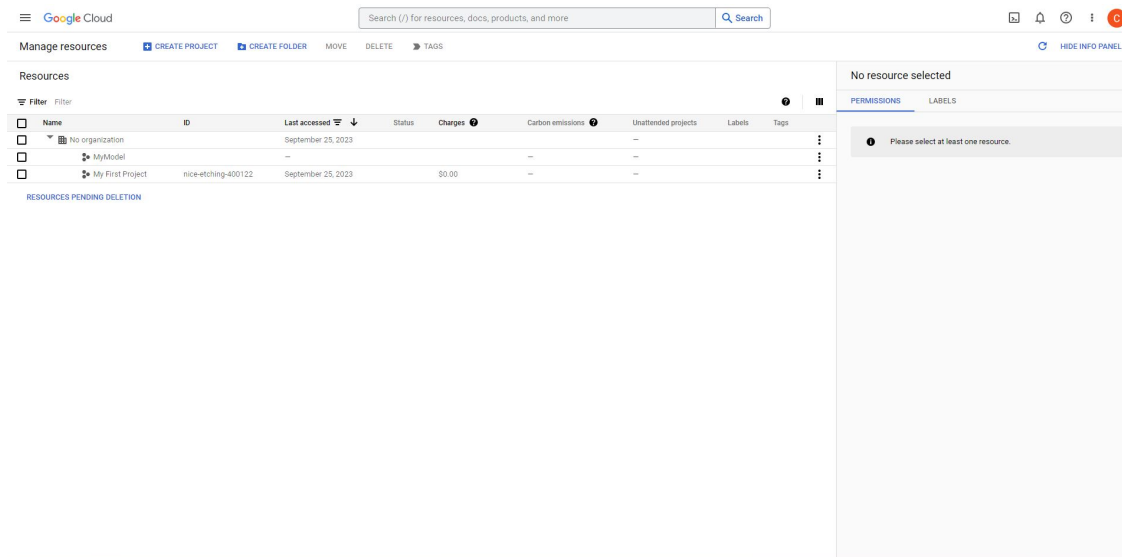
Project name *
MyModel

Project ID: mymodel-400122. It cannot be changed later. [EDIT](#)

Location *
No organization [BROWSE](#)

Parent organization or folder

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



2.2 After that I set the source of my model in the shell script for Google Cloud

```
C:\Windows\System32\cmd.exe
Microsoft Windows [version 10.0.19045.3448]
(c) Microsoft Corporation. All rights reserved.

C:\Users\cdry\Desktop>Data\Glacier\Internship\Repositories\Data-Glacier-Internship-Fall-2023\Week 4 & 5\Deployment_Flask\pip freeze > requirements.txt

C:\Users\cdry\Desktop>Data\Glacier\Internship\Repositories\Data-Glacier-Internship-Fall-2023\Week 4 & 5\Deployment_Flask>gcloud init
Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [default] are:
accessibility:
  screen_reader: 'false'
core:
  account: connorbryson26@gmail.com
  disable_usage_reporting: 'true'

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

Enter configuration name. Names start with a lower case letter and contain only lower case letters a-z, digits 0-9, and
hyphens '-': mymodel
Your current configuration has been set to: [mymodel]

You can skip diagnostics next time by using the following flag:
gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability check passed.
Network diagnostic passed (1/1 checks passed).

Choose the account you would like to use to perform operations for this configuration:
[1] connorbryson26@gmail.com
[2] log in with a new account
Please enter your numeric choice: 1

You are logged in as: [connorbryson26@gmail.com].

Pick cloud project to use:
[1] mymodel-400122
[2] nice-etching-400122
[3] Enter a project ID
[4] Create a new project
Please enter numeric choice or text value (must exactly match list item): 1

Your current project has been set to: [mymodel-400122].

Not setting default zone/region (this feature makes it easier to use
[gcloud compute] by setting an appropriate default value for the
--zone and --region flag).
See https://cloud.google.com/compute/docs/gcloud-compute section on how to set
default compute region and zone manually. If you would like [gcloud init] to be
able to do this for you the next time you run it, make sure the
Compute Engine API is enabled for your project on the
https://console.developers.google.com/apis page.

Created a default .boto configuration file at [C:\Users\cdry\.boto]. See this file and
https://cloud.google.com/storage/docs/gsutil/commands/config for more
information about configuring Google Cloud Storage.
Your Google Cloud SDK is configured and ready to use!
```

```
C:\Windows\System32\cmd.exe
Created a default .boto configuration file at [C:\Users\cdry\].boto. See this file and
https://cloud.google.com/storage/docs/gsutil/commands/config for more
information about configuring Google Cloud Storage.
Your Google Cloud SDK is configured and ready to use!

* Commands that require authentication will use conorbryson2@gmail.com by default
* Commands will reference project 'mymodel-480122' by default
Run 'gcloud help config' to learn how to change individual settings

This gcloud configuration is called [mymodel]. You can create additional configurations if you work with multiple accounts and/or projects.
Run 'gcloud topic configurations' to learn more.

Some things to try next:
* Run 'gcloud --help' to see the Cloud Platform services you can interact with. And run 'gcloud help COMMAND' to get help on any gcloud command.
* Run 'gcloud topic --help' to learn about advanced features of the SDK like arg files and output formatting
* Run 'gcloud cheat-sheet' to see a roster of go-to 'gcloud' commands.

C:\Users\cdry\Desktop\Data Glacier Internship\Repositories\Data-Glacier-Internship-Fall-2023\Week 4 & 5\Deployment Flask>gcloud app deploy
```

2.3 Finally I set the model server up for google cloud and ran the model!

```
C:\Users\cdry\Desktop\Data Glacier Internship\Repositories\Data-Glacier-Internship-Fall-2023\Week 4 & 5\Deployment Flask>gcloud app deploy
You are creating an app for project [mymodel-480122].
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-east1 (supports standard and flexible)
[2] asia-east2 (supports standard and flexible and search_api)
[3] asia-northeast1 (supports standard and flexible and search_api)
[4] asia-northeast2 (supports standard and flexible and search_api)
[5] asia-northeast3 (supports standard and flexible and search_api)
[6] asia-south1 (supports standard and flexible and search_api)
[7] asia-southeast1 (supports standard and flexible)
[8] asia-southeast2 (supports standard and flexible and search_api)
[9] australia-southeast1 (supports standard and flexible and search_api)
[10] europe-central2 (supports standard and flexible)
[11] europe-west (supports standard and flexible and search_api)
[12] europe-west2 (supports standard and flexible and search_api)
[13] europe-west3 (supports standard and flexible and search_api)
[14] europe-west4 (supports standard and flexible and search_api)
[15] northamerica-northeast1 (supports standard and flexible and search_api)
[16] southamerica-east1 (supports standard and flexible and search_api)
[17] us-central (supports standard and flexible and search_api)
[18] us-east1 (supports standard and flexible and search_api)
[19] us-east4 (supports standard and flexible and search_api)
[20] us-west1 (supports standard and flexible)
[21] us-west2 (supports standard and flexible and search_api)
[22] us-west3 (supports standard and flexible and search_api)
[23] us-west4 (supports standard and flexible and search_api)
[24] cancel
Please enter your numeric choice: 5

Creating App Engine application in project [mymodel-480122] and region [asia-northeast1]....done.
Services to deploy:

Descriptor: [C:\Users\cdry\Desktop\Data Glacier Internship\Repositories\Data-Glacier-Internship-Fall-2023\Week 4 & 5\Deployment Flask\app.yaml]
Source: [C:\Users\cdry\Desktop\Data Glacier Internship\Repositories\Data-Glacier-Internship-Fall-2023\Week 4 & 5\Deployment Flask]
Target project: [mymodel-480122]
Target service: [default]
Target version: [202309251614]
Target url: [https://mymodel-480122-du.r.appspot.com]
Target service account: [mymodel-480122@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y
Beginning deployment of service [default]...
Created .gcloudignore file. See 'gcloud topic gcloudignore' for details.
#=====
#- Uploading # files to Google Cloud Storage
#=====
File upload done.
Indexing service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://mymodel-480122-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
```

Predict Survivability

<input type="text" value="Siblings"/>	<input type="text" value="Parch"/>	<input type="button" value="Predict"/>
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