**Credentials**

Hosting Provider: Google Cloud

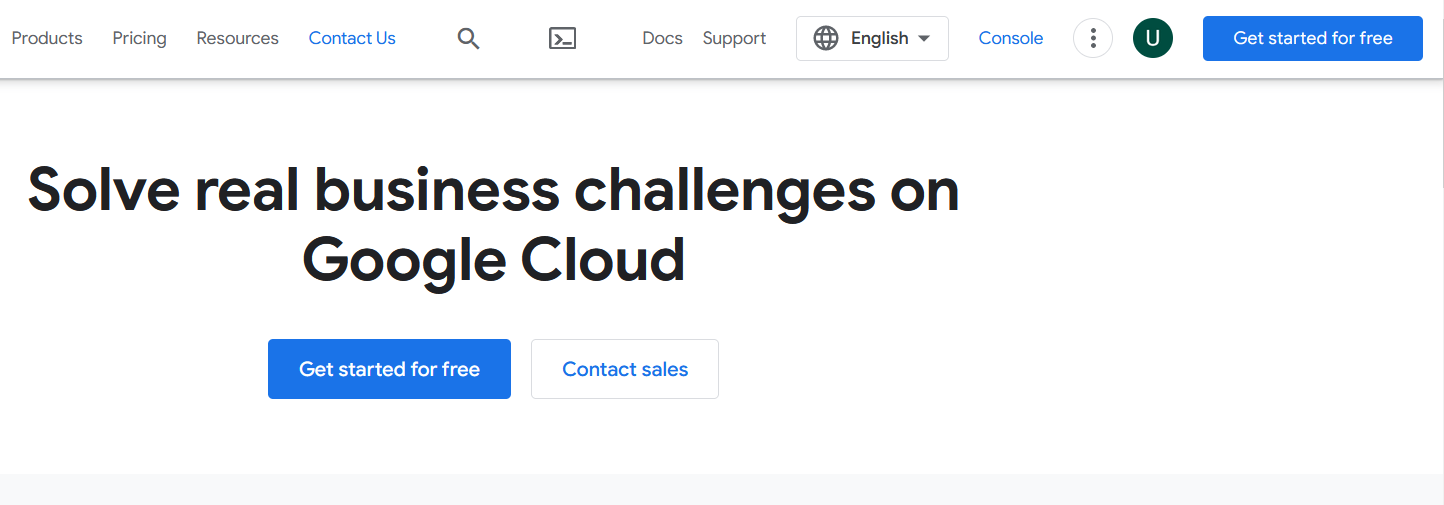
Hosting Account Name: [UCLMechEngDept@gmail.com](mailto:UCLMechEngDept@gmail.com)

Password: UCLChangeTheWorld

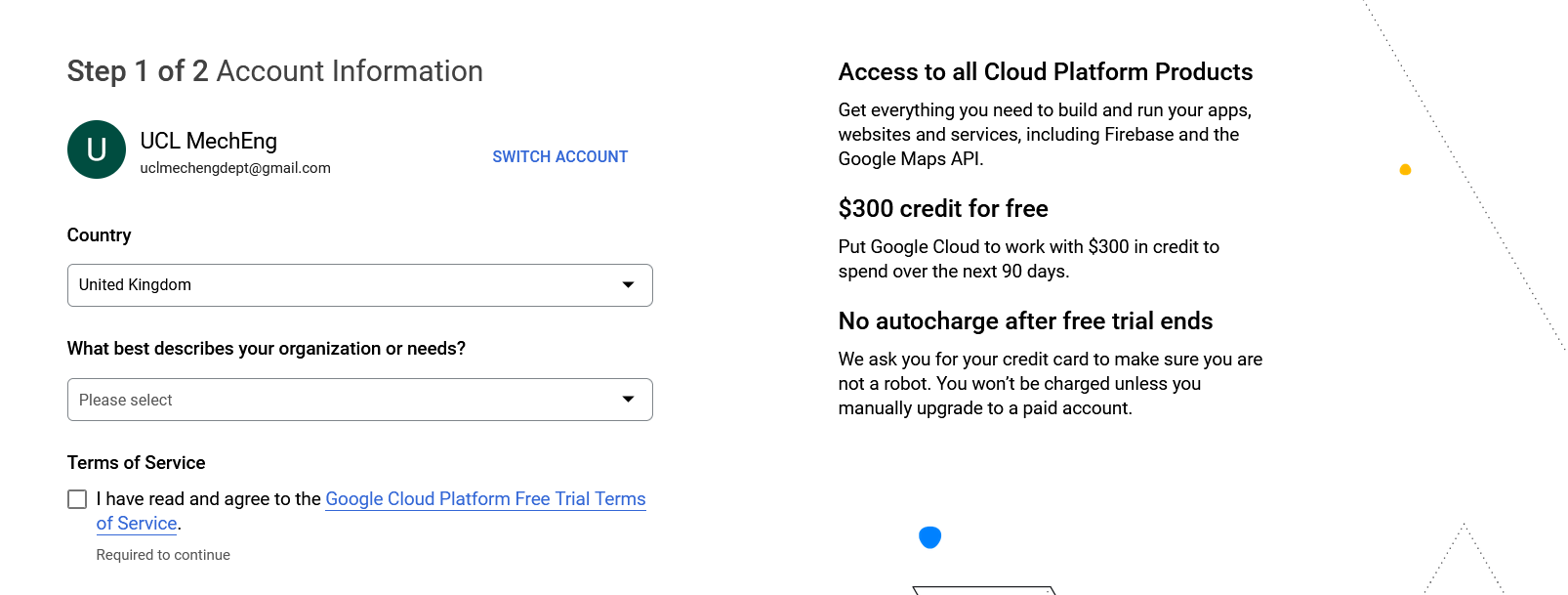
Birthday: 01 Jan 1998

**Part 1: Signing up for Google Cloud**

1. Login to Google with the credentials above.
2. Go to <https://cloud.google.com/free/> and click get started for free:



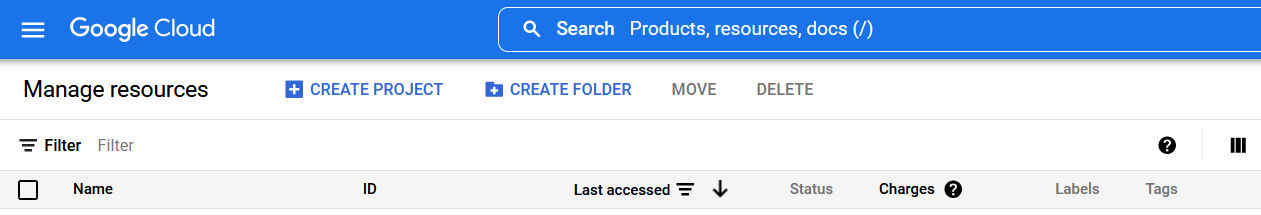
1. Go through the account setup process, which includes giving a credit card



**Part 2: Setting Up Google Cloud Services (To deploy and access the machine)**

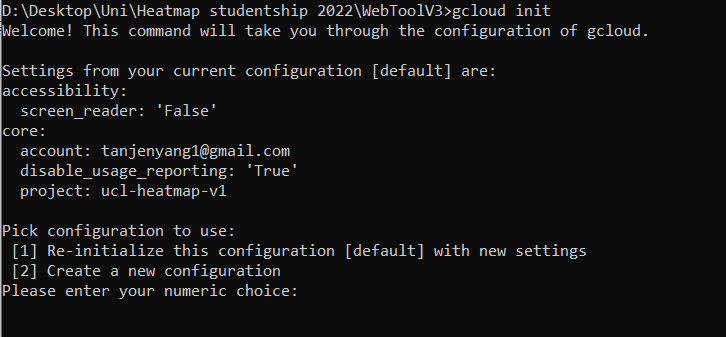
Note: A similar (though not so specific tutorial) can be found on the official Google App engine documentation at <https://cloud.google.com/appengine/docs/flexible/python/create-app>

1. Login to <https://console.cloud.google.com>
2. Create a new project and name it something you like



1. Go to <https://cloud.google.com/sdk/docs/install> and download install the google cloud CLI. This will allow us to communicate with the virtual machine hosted on the cloud.
2. Initialize the google cloud console (see <https://cloud.google.com/sdk/docs/initializing>) by using the commands in the terminal:

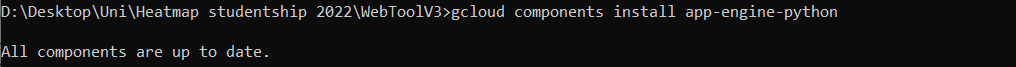
gcloud init



This will prompt you to login to an account and choose/initialize a project and set its location.

1. Run the following command in terminal:

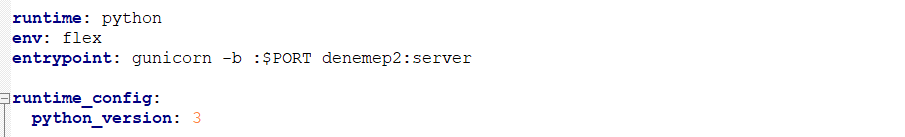
gcloud components install app-engine-python



1. Make sure the working directory has an up to date requirements.txt

Requirements.txt can be built using the *pip freeze* command. You can also use *pipreqs*, which will keep the requirements to only the libraries used by the app (as apposed to pip freeze which will list down *all* the installed libraries)

1. Make sure the working directory has an app.yaml file. This file contains configuration information for the app like runtimes and scaling options.



Make sure that the entrypoint line contains the code following this syntax:

Entrypoint: gunicorn -b :$PORT YOUR\_APP\_NAME\_WITHOUT\_.PY:Variable-name-associated-with-app.servercommand

So in my case, my main code file is named denemep2.py and the line where I start serving the app is written as follows:



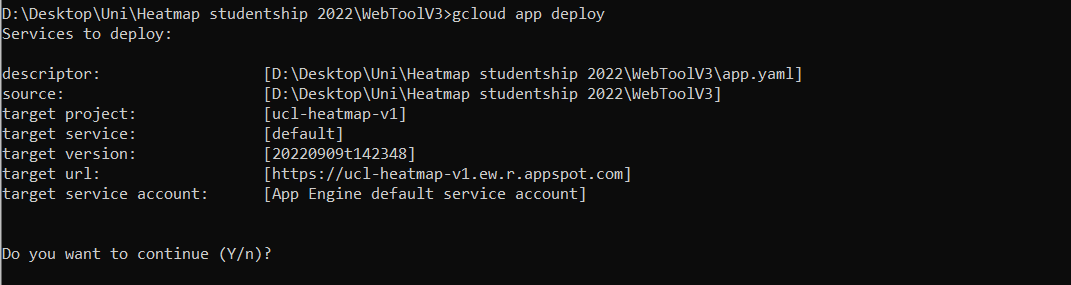
So in the app.yaml file I write:

Entrypoint: gunicorn -b :$PORT denemep2:server

Gunicorn is a python library that takes care of the WSGI server deployment.

1. Deploy the app by running the following command from the working directory (the one with the app.yaml file and your main python file):

gcloud app deploy



It will take some time (5-20minutes) for it to build, but once this is done and if there are no errors your app should be up and running.