

Assignment no.1

1st make sure you have:-

1. Google cloud-sdk
2. Account on Google cloud engine

Steps:

1. Create an account **on google cloud engine**
 - Click on “Console”
 - Click on “My First Project”
 - Click “New Project”
 - Give name to your project and click create

2. Create one folder in that folder create app.yaml file , hello.py file and requirements.txt file
app.yaml code

```
3. runtime: python310
4.
5. entrypoint: gunicorn -b :$PORT main:app
6.
7. handlers:
8. - url: /*
9.   script: auto
10.
```

hello.py code

```
from flask import Flask

app = Flask(__name__)

@app.route('/')
def hello():
    return 'Hello, World!'

if __name__ == '__main__':
    # Only for local testing
    app.run(host='0.0.0.0', port=8080, debug=True)
```

requirement.txt code

```
Flask==2.3.2
gunicorn==21.2.0
```

3. go to the terminal

PS C:\Users\Administrator\Desktop\cc1> gcloud init

Welcome! This command will take you through the configuration of gcloud.

Settings from your current configuration [hello] are:

accessibility:

screen_reader: 'False'

core:

account: kutetrupti123@gmail.com

disable_usage_reporting: 'True'

project: hello-world-app

Pick configuration to use:

[1] Re-initialize this configuration [hello] with new settings

[2] Create a new configuration

[3] Switch to and re-initialize existing configuration: [abcd]

[4] Switch to and re-initialize existing configuration: [default]

[5] Switch to and re-initialize existing configuration: [helloworld]

[6] Switch to and re-initialize existing configuration: [newconfig]

Please enter your numeric choice: 2

Enter configuration name. Names start with a lower case letter and contain only lower case letters a-z, digits 0-9, and hyphens '-': **hello-world-app**

Your current configuration has been set to: [hello-world-app]

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 want to use for this configuration.

To use a federated user account, exit this command and sign in to the gcloud CLI with your login configuration file, then run this command again.

Select an account:

[1] kutetrupti123@gmail.com

[2] rohitnevare.sae.it@gmail.com

[3] shubhamgadhane987@gmail.com

[4] Sign in with a new Google Account

[5] Skip this step

Please enter your numeric choice: 1

(Note: if you have google cloud account then only it show here...otherwise click [4])

You are signed in as: [kutetrupti123@gmail.com].

Pick cloud project to use:

[1] august-list-455102-g3

[2] bright-aloe-450012-a8

[3] divine-booking-457709-r6

[4] genial-runway-450012-h5

[5] hello-world-app-457709

[6] totemic-winter-455102-a6

[7] Enter a project ID

[8] Create a new project

Please enter numeric choice or text value (must exactly match list item): 5

Your current project has been set to: [hello-world-app-457709].

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\Administrator\.boto]. See this file and [<https://cloud.google.com/storage/docs/gsutil/commands/config>] for more information about configuring Google Cloud Storage.

The Google Cloud CLI is configured and ready to use!

- * Commands that require authentication will use kutetrupti123@gmail.com by default

- * Commands will reference project `hello-world-app-457709` by default

Run `gcloud help config` to learn how to change individual settings

This gcloud configuration is called [hello-world-app]. 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 CLI like arg files and output formatting

- * Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.

NOTE: If below command is not running...try by skipping that command

PS C:\Users\Administrator\Desktop\cc1> pip install -r requirements.txt

Requirement already satisfied: Flask==2.3.2 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from -r requirements.txt (line 1)) (2.3.2)

Requirement already satisfied: gunicorn==21.2.0 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from -r requirements.txt (line 2)) (21.2.0)

Requirement already satisfied: Werkzeug>=2.3.3 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from Flask==2.3.2->-r requirements.txt (line 1)) (3.1.3)

Requirement already satisfied: Jinja2>=3.1.2 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from Flask==2.3.2->-r requirements.txt (line 1)) (3.1.6)

Requirement already satisfied: itsdangerous>=2.1.2 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from Flask==2.3.2->-r requirements.txt (line 1)) (2.2.0)

Requirement already satisfied: click>=8.1.3 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from Flask==2.3.2->-r requirements.txt (line 1)) (8.1.8)

Requirement already satisfied: blinker>=1.6.2 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from Flask==2.3.2->-r requirements.txt (line 1)) (1.9.0)

Requirement already satisfied: packaging in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from gunicorn==21.2.0->-r requirements.txt (line 2)) (25.0)

Requirement already satisfied: colorama in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from click>=8.1.3->Flask==2.3.2->-r requirements.txt (line 1)) (0.4.6)

Requirement already satisfied: MarkupSafe>=2.0 in

c:\users\administrator\appdata\local\programs\python\python311\lib\site-packages (from Jinja2>=3.1.2->Flask==2.3.2->-r requirements.txt (line 1)) (3.0.2)

[notice] A new release of pip available: 22.3.1 -> 25.0.1

[notice] To update, run: python.exe -m pip install --upgrade pip

PS C:\Users\Administrator\Desktop\cc1> python helloworld.py

Traceback (most recent call last):

File "C:\Users\Administrator\Desktop\cc1\helloworld.py", line 3, in <module>

```
from helloworld import app # change to match your file name and Flask app
```

```
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

File "C:\Users\Administrator\Desktop\cc1\helloworld.py", line 3, in <module>

```
from helloworld import app # change to match your file name and Flask app
```

```
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

ImportError: cannot import name 'app' from partially initialized module 'helloworld' (most likely due to a circular import) (C:\Users\Administrator\Desktop\cc1\helloworld.py)

PS C:\Users\Administrator\Desktop\cc1> python helloworld.py

* Serving Flask app 'helloworld'

* 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://127.0.0.1:8080

* Running on http://172.16.103.102:8080

Press CTRL+C to quit

* Restarting with stat

* Debugger is active!

* Debugger PIN: 816-717-082

127.0.0.1 - - [23/Apr/2025 15:30:21] "GET / HTTP/1.1" 200 -

127.0.0.1 - - [23/Apr/2025 15:30:21] "GET /favicon.ico HTTP/1.1" 404 -

Go to the browser “https://localhost:8080”