

Cheat no. 2 , 10

Install Google App Engine. Create Hello World app and other simple web applications using the Google Cloud platform.

1st make sure you have:-

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

Steps:

1. Create an account on google cloud engine
2. Click on "Console"
3. Click on "My First Project"
4. Click "New Project"
5. Give name to your project and click create

Create a folder -> HelloWorldApp , in that folder create 3 files -> app.yaml , main.py , req.txt

app.yaml –

```
runtime: python310
entrypoint: python main.py
```

main.py -

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello():
    return 'Hello from GCP!'

app.run(host='0.0.0.0', port=8080)
```

req.txt

```
Flask==2.0.1
werkzeug==2.3.7
```

Open terminal

PS C:\Users\expert\Desktop\Hello-easyversion> gcloud init

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

Settings from your current configuration [hello-world-app-1] are:

accessibility:

screen_reader: 'True'

core:

account: harshch587@gmail.com

disable_usage_reporting: 'True'

project: hello-world-demo-2025

Pick configuration to use:

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

[2] Create a new configuration

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

[4] Switch to and re-initialize existing configuration: [hello-world-app]

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 '-': helloeasycode

Your current configuration has been set to: [helloeasycode]

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] harshch587@gmail.com

[2] Sign in with a new Google Account

[3] Skip this step

Please enter your numeric choice: 1

You are signed in as: [harshch587@gmail.com].

Pick cloud project to use:

[1] hello-world-demo-2025

[2] rugged-matrix-457911-p8

[3] stately-shelter-457917-j0

[4] Enter a project ID

[5] Create a new project

Please enter numeric choice or text value (must exactly match list item): 1

Your current project has been set to: [hello-world-demo-2025].

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.

The Google Cloud CLI is configured and ready to use!

* Commands that require authentication will use harshch587@gmail.com by default

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

This gcloud configuration is called [helloeasycode]. 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.

PS C:\Users\exPert\Desktop\Hello-easyversion> pip install -r requirements.txt

Requirement already satisfied: Flask==2.0.1 in
c:\users\expert\appdata\local\programs\python\python312\lib\site-packages (from -r
requirements.txt (line 1)) (2.0.1)

Collecting werkzeug==2.3.7 (from -r requirements.txt (line 2))

Downloading werkzeug-2.3.7-py3-none-any.whl.metadata (4.1 kB)

Requirement already satisfied: Jinja2>=3.0 in
c:\users\expert\appdata\local\programs\python\python312\lib\site-packages (from Flask==2.0.1->-
r requirements.txt (line 1)) (3.1.4)

Requirement already satisfied: itsdangerous>=2.0 in
c:\users\expert\appdata\local\programs\python\python312\lib\site-packages (from Flask==2.0.1->-
r requirements.txt (line 1)) (2.2.0)

Requirement already satisfied: click>=7.1.2 in
c:\users\expert\appdata\local\programs\python\python312\lib\site-packages (from Flask==2.0.1->-
r requirements.txt (line 1)) (8.1.7)

Requirement already satisfied: MarkupSafe>=2.1.1 in
c:\users\expert\appdata\local\programs\python\python312\lib\site-packages (from
werkzeug==2.3.7->-r requirements.txt (line 2)) (2.1.1) Requirement already satisfied: colorama in
c:\users\expert\appdata\local\programs\python\python312\lib\site-packages (from click>=7.1.2->
>Flask==2.0.1->-r requirements.txt (line 1)) (0.4.6)

Downloading werkzeug-2.3.7-py3-none-any.whl (242 kB)

Installing collected packages: werkzeug

Attempting uninstall: werkzeug

Found existing installation: Werkzeug 3.0.3

Uninstalling Werkzeug-3.0.3:

Successfully uninstalled Werkzeug-3.0.3

Successfully installed werkzeug-2.3.7

[notice] A new release of pip is available: 24.2 -> 25.0.1

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

PS C:\Users\EXpert\Desktop\Hello-easyversion> python main.py

* Serving Flask app 'main' (lazy loading)

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: off

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://192.168.33.193:8080

Press CTRL+C to quit

127.0.0.1 - - [26/Apr/2025 10:01:08] "GET / HTTP/1.1" 200 -

127.0.0.1 - - [26/Apr/2025 10:01:13] "GET /favicon.ico HTTP/1.1" 404 -