✅ 1. Install and Initialize Google Cloud SDK

If you've already downloaded and installed it:

1. **Open** "Google Cloud SDK Shell" (or cmd/PowerShell).

2. Run:

3. gcloud init

   - This will open a browser to **log in** with your Google account.

   - Choose or create a **Google Cloud Project**.

   - Set the **default region** (e.g., us-central).

✅ 2. Enable App Engine for Your Project

Run:

gcloud app create

- Select your **preferred region** (e.g., us-central).

✅ 3. Prepare Your Python App for Deployment

Make sure your project folder contains:

🔹 **app.yaml (required by App Engine)**

Example for a basic Python 3 app:

runtime: python39

entrypoint: gunicorn -b :$PORT main:app

handlers:

- url: /.*

  script: auto

🔹 **main.py (or your main application file)**

Example Flask app:

from flask import Flask

app = Flask(__name__)

@app.route('/')

```
def hello():

    return 'Hello from Google App Engine!'


if __name__ == '__main__':

    app.run()
```

- ◆ **requirements.txt**

List your Python dependencies here:

Flask==2.2.5

gunicorn==21.2.0

✅ 4. Deploy Your App

In the terminal (inside the app directory), run:

gcloud app deploy

- This will upload and deploy your app to App Engine.
- Confirm when prompted.

✅ 5. Visit Your App

After deployment:

gcloud app browse

- This opens the deployed app in your browser.

🛠 Optional Tips:

- To view logs:
- gcloud app logs tail -s default
- To deploy updates, just run gcloud app deploy again.

Would you like a sample project folder structure or a downloadable template?