Step-by-Step Guide: Installing and Running GDE on Ubuntu

1. Update the system:
sudo apt update && sudo apt upgrade -y
2. Install curl if not already installed:
sudo apt install curl -y
3. Download and install Google Cloud SDK using curl:
curl https://sdk.cloud.google.com bash
1. Restart the shell:
exec -I \$SHELL
5. Initialize the Google Cloud SDK:
gcloud init
6. Authenticate and configure Google Cloud CLI:
gcloud auth login
7. Set your default project:
gcloud config set project YOUR_PROJECT_ID
3. Install App Engine SDK for Python:
gcloud components install app-engine-python
9. Create a directory for your Flask app:
mkdir helloworld && cd helloworld
10. Create app.yaml file for Google App Engine:
nano app.yaml

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Add the following content:
  runtime: python39
  entrypoint: python main.py
11. Create main.py (Flask application):
  nano main.py
  Add the following Python code:
  from flask import Flask
  app = Flask(__name__)
  @app.route('/')
  def hello():
    return "Hello, World!"
  if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080)
12. Install Flask (without virtual environment):
  sudo apt install python3-flask -y
13. Run the Flask app locally:
  python3 main.py
14. Deploy to Google Cloud (GDE):
  gcloud app deploy
15. View the deployed app:
  gcloud app browse
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