

# **Cloud - Assignment 2**

#### **Exersice 1**

Create the App Engine Configuration

```
GNU nano 6.2
runtime: python39
entrypoint: gunicorn -b :$PORT app:app
handlers:
   - url: /.*
   script: auto
```

#### Deploy the Application

```
Creating App Engine application in project [assigment2-436209] and region [asia-east1]....done. Services to deploy:

descriptor: [/home/maxdoma03/flask-app/app.yaml]
source: [/home/maxdoma03/flask-app]
target project: [assigment2-436209]
target service: [default]
target version: [20241003t095907]
target url: [https://assigment2-436209.de.r.appspot.com]
target service account: [assigment2-436209@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? Y

Beginning deployment of service [default]...
Uploading 655 files to Google Cloud Storage
5%
10%
15%
20%
25%
```

```
← → C % assigment2-436209.de.r.appspot.com
```

Hello, World!

# **Exersice 2 - Google Cloud Functions**

## **Deploy the Function**

```
pepioying function (may take a while - up to 2 minutes)...done.
automaticUpdatePolicy: {}
availableMemoryMb: 256
buildId: 0026a26c-7794-4b3d-a8d1-e24f28542b81
buildName: projects/367135725347/locations/us-central1/builds/0026a26c-7794-4b3d-a8d1-e24f2855buildServiceAccount: projects/assigment2-436209/serviceAccounts/367135725347-compute@developerdockerRegistry: ARTIFACT_REGISTRY
entryPoint: helloWorld
httpsTrigger:
securityLevel: SECURE_ALWAYS
url: https://us-central1-assigment2-436209.cloudfunctions.net/helloWorld
ingressSettings: ALLOW_ALL
labels:
deployment-tool: cli-gcloud
name: projects/assigment2-436209/locations/us-central1/functions/helloWorld
runtime: nodejs18
serviceAccountEmail: assigment2-436209@appspot.gserviceaccount.com
sourceUploadUrl: https://storage.googleapis.com/uploads-717174621030.us-central1.cloudfunction
status: ACTIVE
timeout: 60s
updateTime: '2024-10-03T10:34:36.651Z'
```

Hello, World!

# **Exersice 3 - Containerizing Applications**

## Create a Dockerfile

# Run the Docker Container

docker run —rm hello-world-app

```
=> extracting sha256:62a08b8dd4f53ad5493dabf2af00ccde9labb3771fb2187040bcf2fe94a7ced'
=> [2/3] WORKDIR /app
=> [3/3] COPY . /app
=> exporting to image
=> => exporting layers
=> => writing image sha256:8444fbefa2a99012bb6f8a5e573c61231fefdc0147314435c042dbcfba9fi
=> => naming to docker.io/library/hello-world-app
maxdoma03@cloudshell:~/docker-test (assigment2-436209)$ docker run --rm hello-world-app
Hello from inside the container!
maxdoma03@cloudshell:~/docker-test (assigment2-436209)$
```