**Steps to Deploy Cloud Build Image to Cloud Run**

**Enable Required Services**

Run the following command to enable the necessary Google Cloud services:

gcloud services enable run.googleapis.com artifactregistry.googleapis.com cloudbuild.googleapis.com

Clone repo

git clone <https://github.com/amitopenwriteup/cicdproject.git>

cd cicdproject

**Update cloudbuild.yaml**

Modify your cloudbuild.yaml to **deploy to Cloud Run** after the image is built and pushed:

steps:

# Build the Docker image

- name: 'gcr.io/cloud-builders/docker'

args:

- 'build'

- '-t'

- 'us-central1-docker.pkg.dev/$PROJECT\_ID/my-repo/my-app:latest'

- '.'

# Push the image to Artifact Registry

- name: 'gcr.io/cloud-builders/docker'

args:

- 'push'

- 'us-central1-docker.pkg.dev/$PROJECT\_ID/my-repo/my-app:latest'

# Deploy the container to Cloud Run

- name: 'gcr.io/cloud-builders/gcloud'

args:

- 'run'

- 'deploy'

- 'my-microservice' # Change to your Cloud Run service name

- '--image'

- 'us-central1-docker.pkg.dev/$PROJECT\_ID/my-repo/my-app:latest'

- '--region'

- 'us-central1'

- '--platform'

- 'managed'

- '--allow-unauthenticated' # Remove if you need authentication

- '--memory'

- '512Mi' # Adjust based on your app requirements

- '--cpu'

- '1' # Adjust CPU allocation

images:

- 'us-central1-docker.pkg.dev/$PROJECT\_ID/my-repo/my-app:latest'

**3️⃣ Submit the Cloud Build**

Run:

Change project id: gcloud projects list

gcloud builds submit --config=cloudbuild.yaml --project=upgradlabs-1738334790345

Once completed, Cloud Run will automatically deploy the microservice.

**Configure Autoscaling for Cloud Run**

**gcloud run services update my-microservice --region us-central1 --min-instances 1 --max-instances 10 --project upgradlabs-1738334790345**

* --min-instances 1 → Ensures a cold start does not affect performance.
* --max-instances 10 → Automatically scales up to **10 instances** during spikes.

**Verify Deployment**

Run:

gcloud run services describe my-microservice --region us-central1 --project upgradlabs-1738334790345