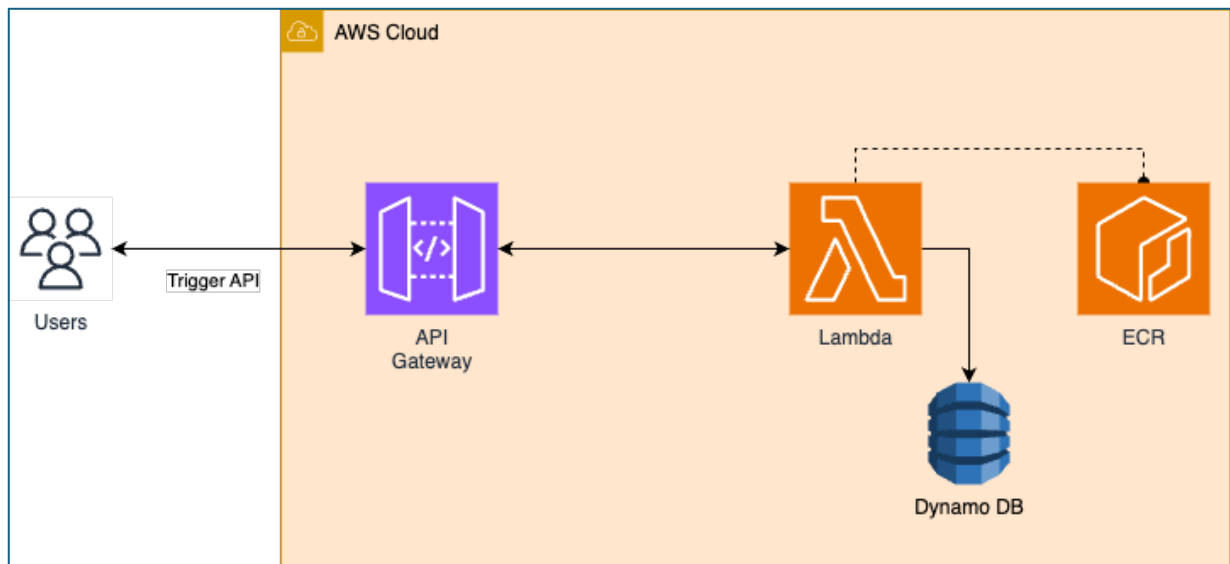


API Deployment to AWS

Architecture

As per the below diagram users can access the API using API Gateway endpoint.



Prerequisites

Create ECR Repository in your AWS Account

Steps

1. Build Python API container image in the local machine
2. Push the container image to ECR repository
3. Create a lambda function using ECR image
 - Go to the lambda resource console and click on create function and select container image and browse the image from ECR repo.
4. Create API Gateway
 - API Gateway console and click on Create API and then select REST API Build
5. Integrate API Gateway with the lambda function
 - Create resource for API
 - Create a method for the resource
 - Deploy the API
6. Test API
 - URL of the Deployment of API Gateway and hit it in the browser

Dockerfile

Example of a docker file

```
FROM public.ecr.aws/lambda/python:3.10
# Copy function code
COPY ./app ${LAMBDA_TASK_ROOT}
# Install the function's dependencies using file requirements.txt
# from your project folder.
COPY requirements.txt .
RUN pip3 install -r requirements.txt - target "${LAMBDA_TASK_ROOT}" -U --no-cache-dir
# Set the CMD to your handler (could also be done as a parameter override outside of the Dockerfile)
CMD [ "app.handler" ]
```