

Lambda + FastAPI

To-do on Python side (locally)

1. Install fastapi + magnum modules
2. Code modifications

- Create main.py

```
app = FastAPI()  
handler = Magnum(app)
```

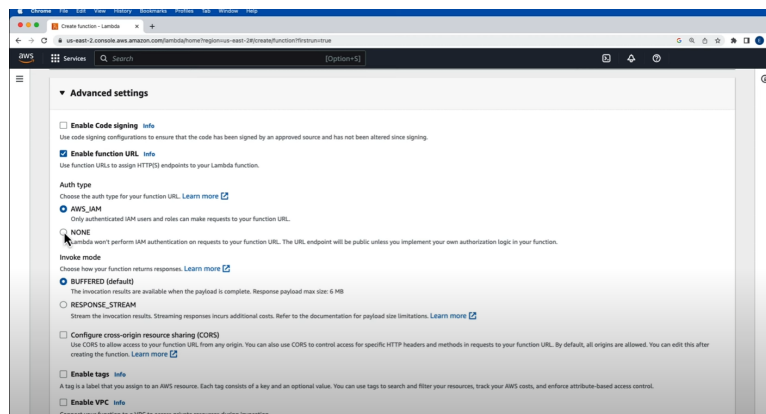
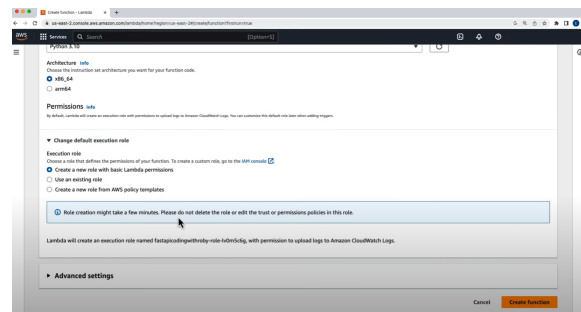
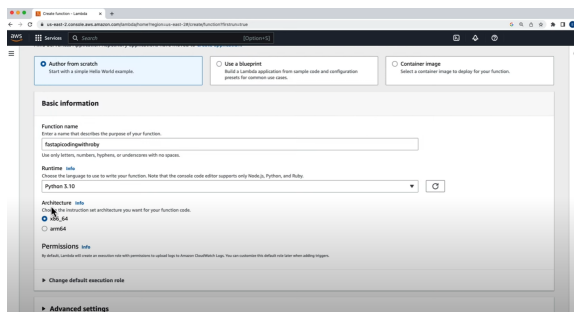
- Create health call endpoint
- locally test the endpoint from swagger link

3. Run these 3 commands to locally setup AWS lambda compatibility

- ```
1. pip3 install -t dependencies -r requirements.txt
2. (cd dependencies; zip ../aws_lambda_artifact.zip -r .)
3. zip aws_lambda_artifact.zip -u main.py
```

## To-do on AWS side

1. Go to lambda → Create function
2. Setting up lambda functions
  - a. Option → Author from scratch
  - b. Basic Information (Give name, select python runtime)
  - c. Execution Role → Create new role with basic lambda permissions
  - d. Advanced settings
    - Check → Enable function URL
    - Auth type → AWS\_IAM
    - Invoke Mode → Buffered



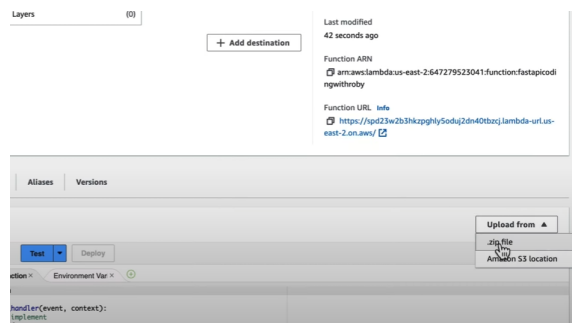
### 3. Upload the FastAPI application to be an AWS lambda

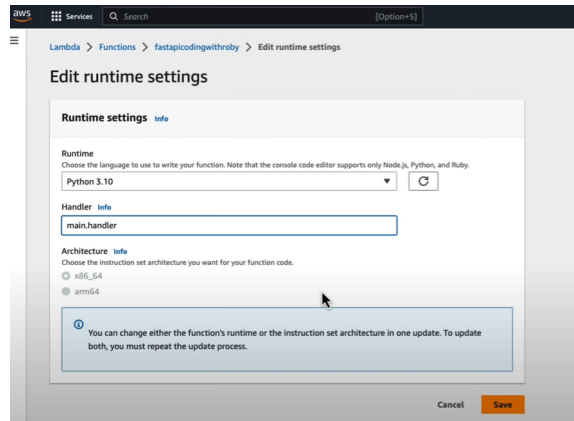
a. Upload from - > .zip file

b. Upload AWS lambda artifact that we've created using the 3 commands

c. Edit the handler type

- if you click the Function URL you'll get an internal server error
- Solution:
  - Under Runtime settings → Edit
  - Change Handler to main.handler (since handler is handled by Mangum inside the main.py module)





#### 4. Setup the API Gateway to send HTTP requests