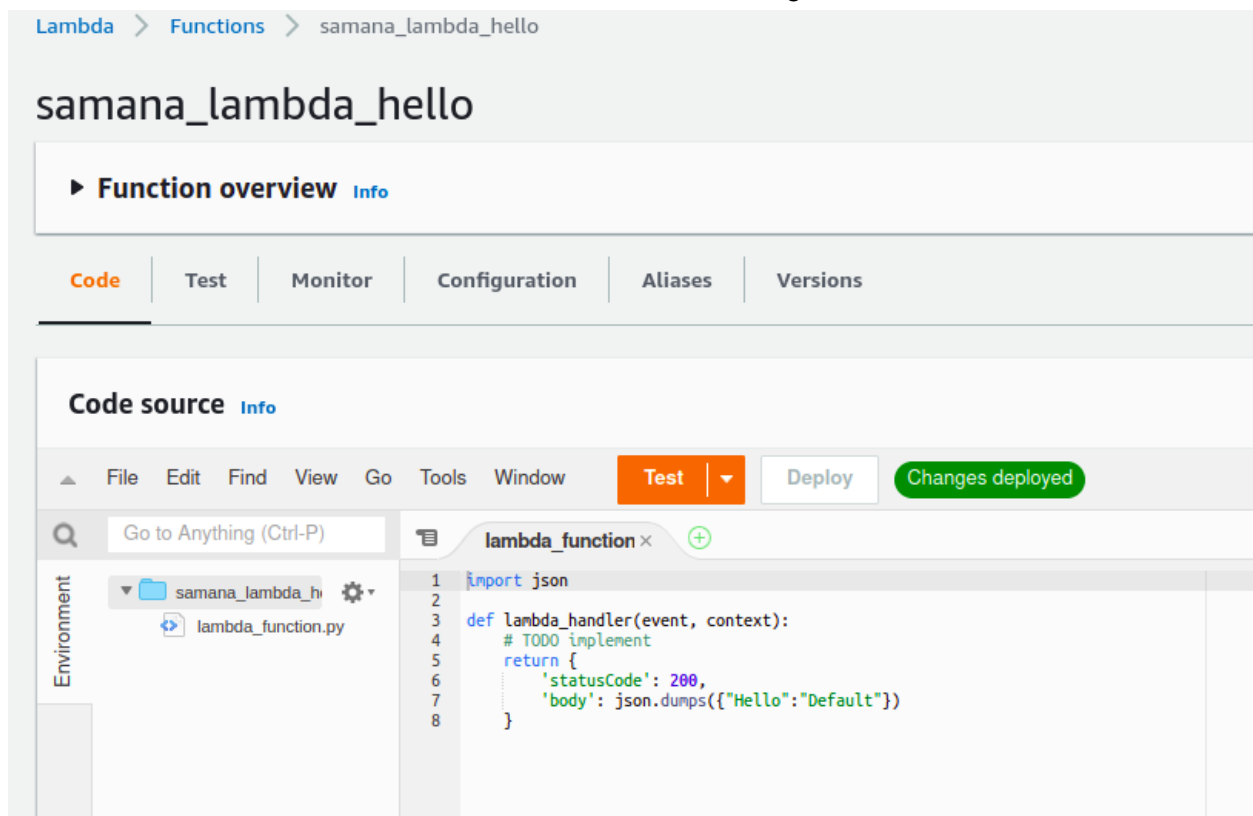# 1.Create two lambda functions

- **First lambda function returns 200 response as {"Hello":"Default"}**
- **Second lambda function returns 200 response as {"Hello":"{Dynamic route name}"}**

# 2.Configure API gateway with that hits first lambda function on / and the second lambda function on /*

# 1

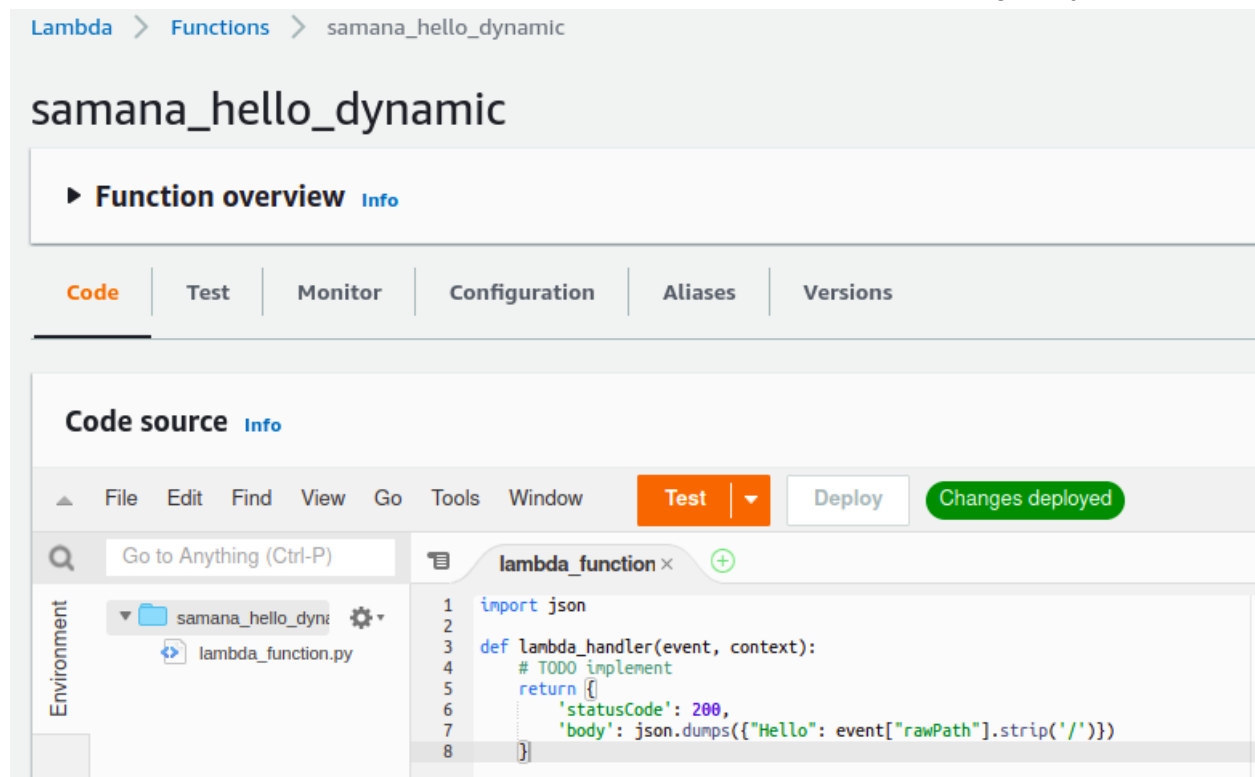The first lambda function was created which had the following block of code



Lambda > Functions > samana_lambda_hello

## samana_lambda_hello

▶ Function overview  Info

Code | Test | Monitor | Configuration | Aliases | Versions

### Code source  Info

File  Edit  Find  View  Go  Tools  Window    Test ▼   Deploy   Changes deployed

Go to Anything (Ctrl-P)          lambda_function ×  ⊕

▼ 📁 samana_lambda_h  ⚙▼
   ◇ lambda_function.py

```
1  import json
2
3  def lambda_handler(event, context):
4      # TODO implement
5      return {
6          'statusCode': 200,
7          'body': json.dumps({"Hello":"Default"})
8      }
```
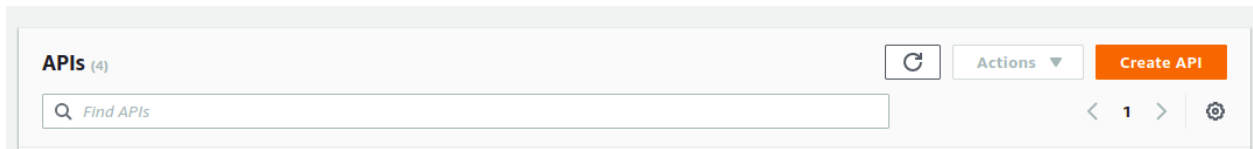
The second lambda function was created as follows:
The code returns Hello and the pathname entered after the root url of the target in json format.
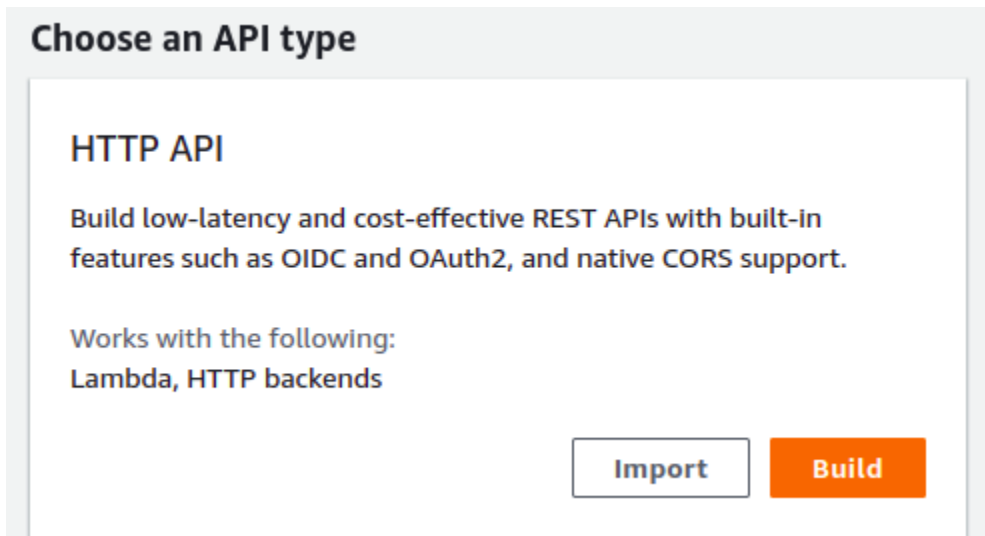
# samana_hello_dynamic

▶ **Function overview** Info

| Code | Test | Monitor | Configuration | Aliases | Versions |

**Code source** Info

File   Edit   Find   View   Go   Tools   Window      **Test** ▼      Deploy      Changes deployed

Go to Anything (Ctrl-P)

Environment

▼ 📁 samana_hello_dyna ⚙▼
   📄 lambda_function.py

**lambda_function** ×

```python
1  import json
2
3  def lambda_handler(event, context):
4      # TODO implement
5      return {
6          'statusCode': 200,
7          'body': json.dumps({"Hello": event["rawPath"].strip('/')})
8      }
```

**2**

Now, we create an API as follows:



We choose the API type as HTTP API

We create two integrations i.e. our previously created lambda functions. These are the backend services that our API will communicate with.

## Create and configure integrations

Specify the backend services that your API will communicate with. These are called integrations. For a Lambda integration, API Gateway invokes the Lambda function and responds with the response from the function. For HTTP integration, API Gateway sends the request to the URL that you specify and returns the response from the URL.

### Integrations  Info

| Lambda | ▼ | Remove |

AWS Region | Lambda function | Version **Learn more.**

| us-east-1 ▼ | 🔍 samana_lambda_hello ✕ | 2.0 ▼ |

| Lambda | ▼ | Remove |

AWS Region | Lambda function | Version **Learn more.**

| us-east-1 ▼ | 🔍 samana_hello_dynamic ✕ | 2.0 ▼ |

**Add integration**

Now we configure routes so that our API hits first lambda function on / and the second lambda function on /*



Thus an API gateway was created with the following url:
https://z2hphqr6xf.execute-api.us-east-1.amazonaws.com/

After creating the API, triggers were automatically created on our lambda functions as follows:

Lambda > Functions > samana_lambda_hello

# samana_lambda_hello

▶ **Function overview** Info

| Code | Test | Monitor | **Configuration** | Aliases | Versions |

General configuration

**Triggers**

Permissions

Destinations

Environment variables

Tags

VPC

**Triggers** (1)                    ⟳    Enable    Disable

🔍 Find triggers

☐    **Trigger**

☐    **API Gateway:** samanaAPIgateway
     arn:aws:execute-api:us-east-1:949263681218:z2hphqr6xf/*/*/
     API endpoint: **https://z2hphqr6xf.execute-api.us-east-1.amazonaws.com/**
     ▶ **Details**

Lambda > Functions > samana_hello_dynamic

# samana_hello_dynamic                                        Throttle

▶ **Function overview** Info

| Code | Test | Monitor | **Configuration** | Aliases | Versions |

General configuration

**Triggers**

Permissions

Destinations
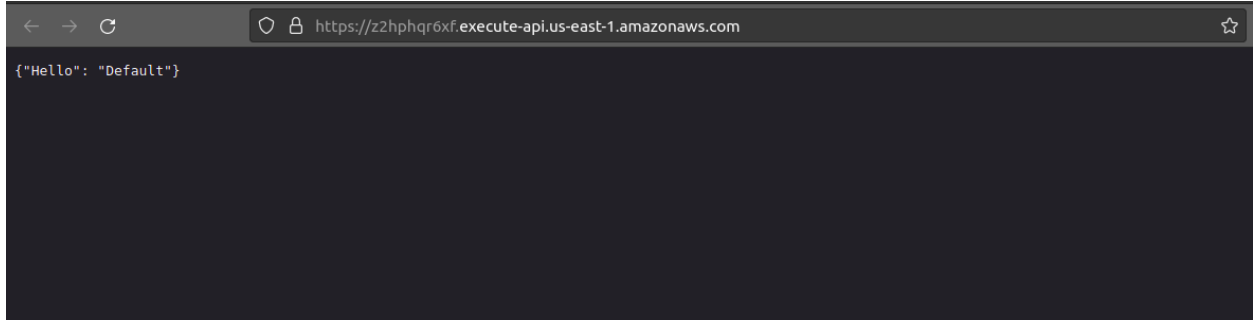
Environment variables

Tags

VPC

**Triggers** (1)                    ⟳    Enable    Disable    Fix errors
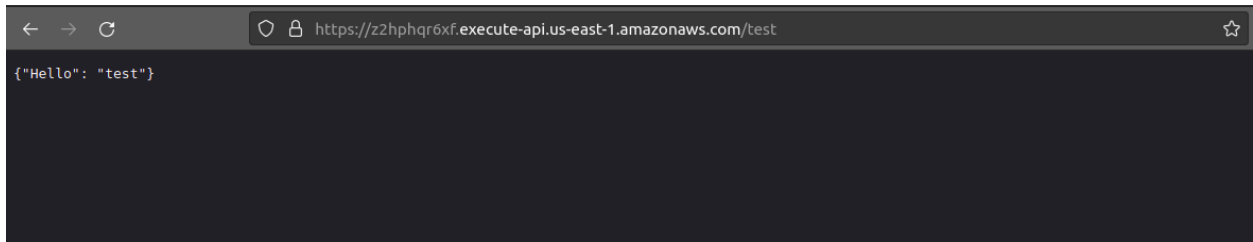
🔍 Find triggers

☐    **Trigger**

☐    **API Gateway:** samanaAPIgateway
     arn:aws:execute-api:us-east-1:949263681218:z2hphqr6xf/*/*/{dynamic+}
     API endpoint: **https://z2hphqr6xf.execute-api.us-east-1.amazonaws.com/{dynamic+}**
     ▶ **Details**

**Result:**

Upon visiting the API invoke URL the following response was observed



Upon adding a path named test , {"Hello":"test"} result was observed



Similarly, Upon adding a path named test012345 , {"Hello":"test012345"} result was observed