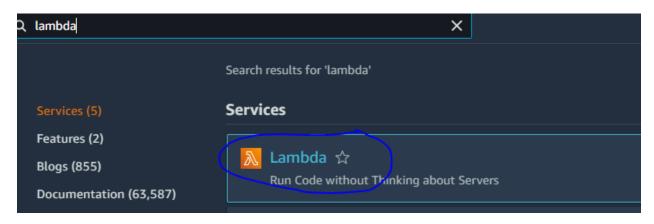
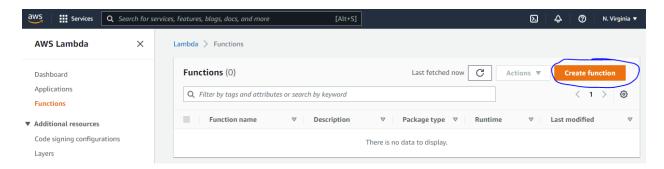
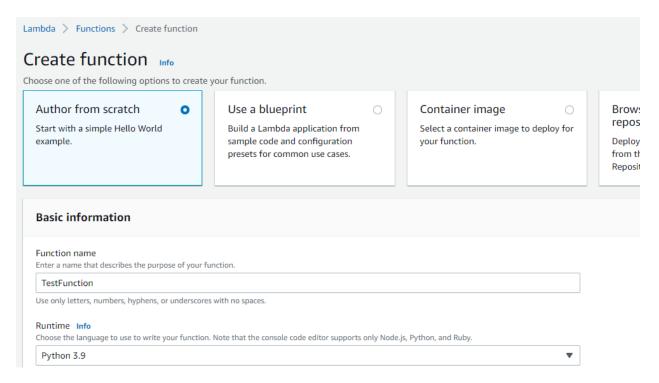
Creating REST API using Lambda

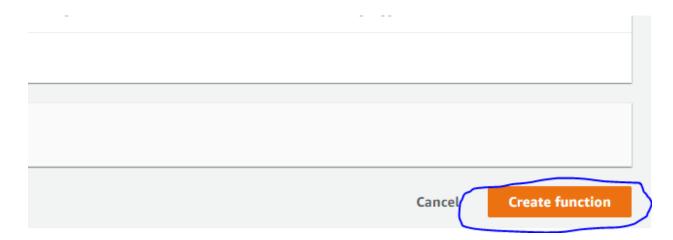


Click on Lambda



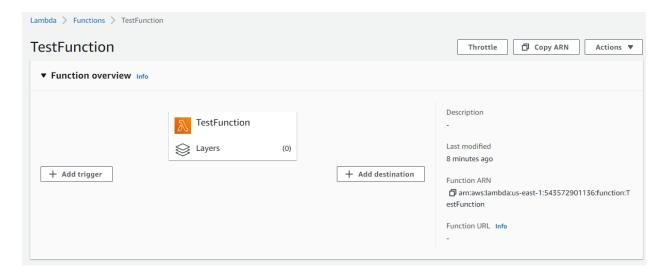
We are going to create a new functio here



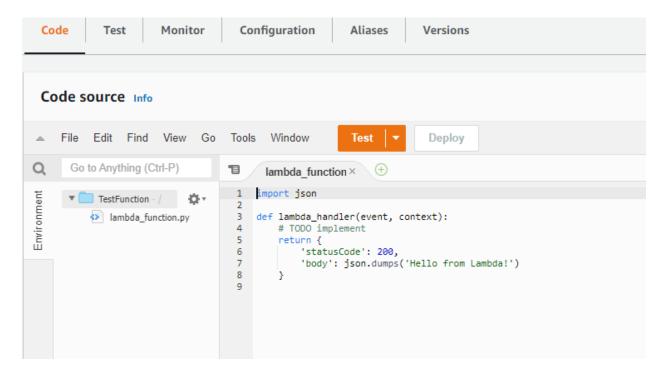


Click on Create function now.

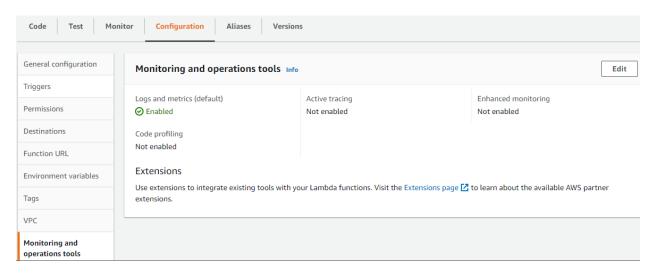
Successfully created the function **TestFunction**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".



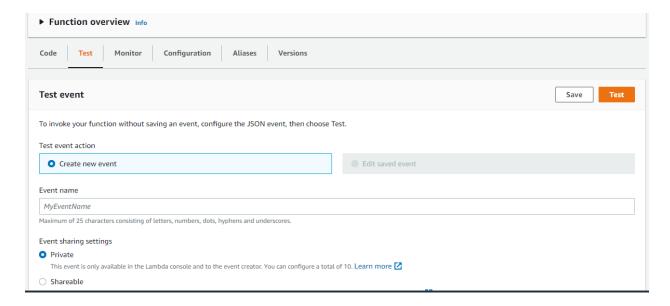
See the sample code which is generated by default



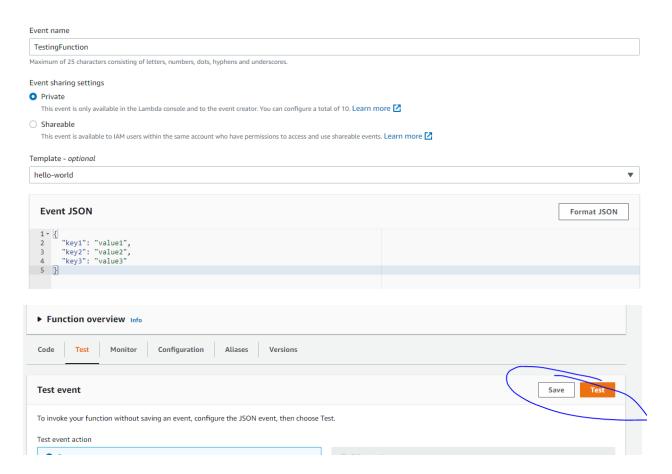
Configuration

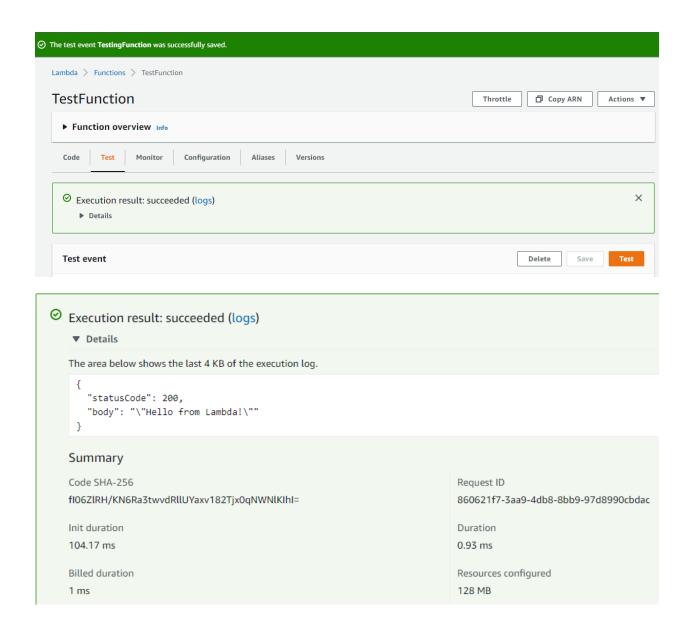


Testing the function, for that we need to create an event



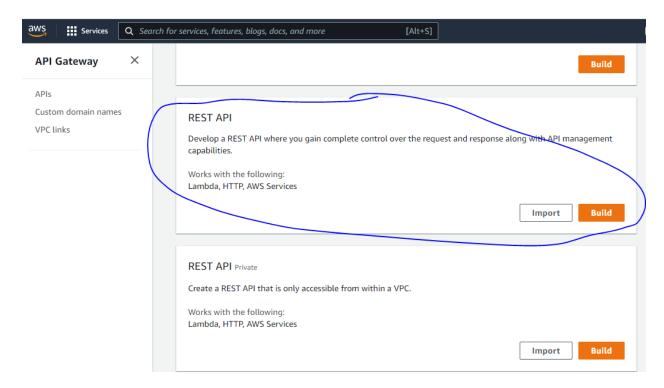
Save it and then click on Test



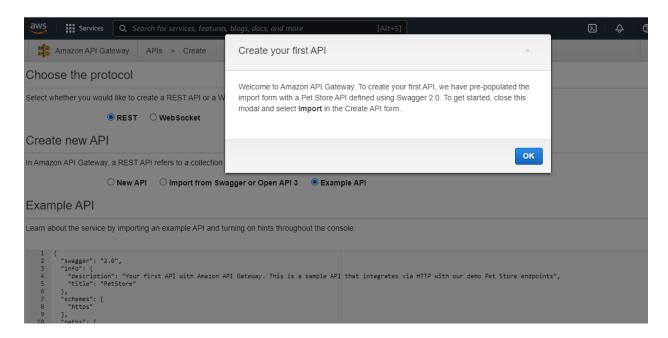


Now the lambda function is ready, we have create an API gateway:

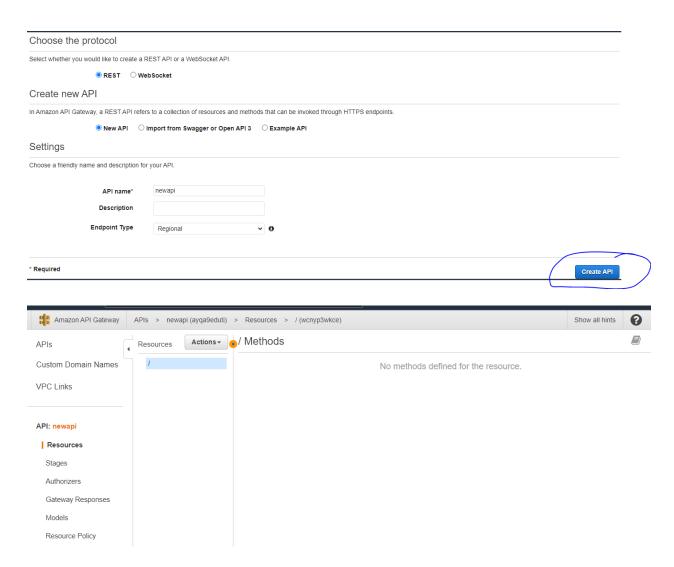
Navigate to API gateway service:



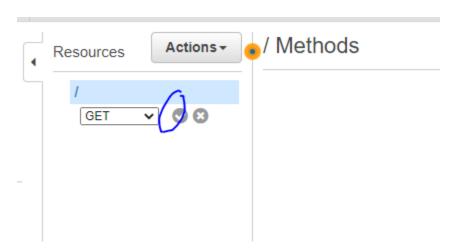
Now we are going to create an API using the REST API, click on build



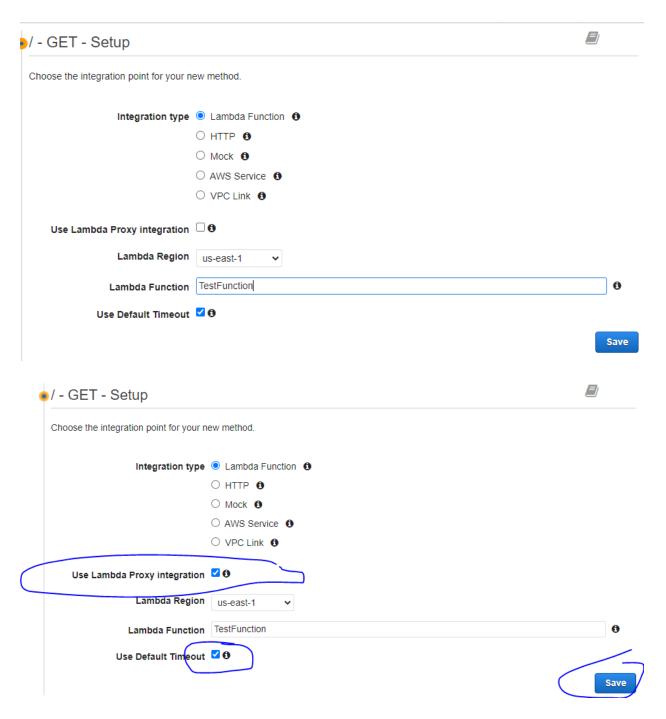
Use create new options and click on create



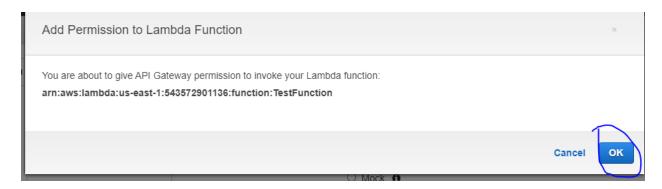
Click on Actions and create method and select GET method from dropdown:



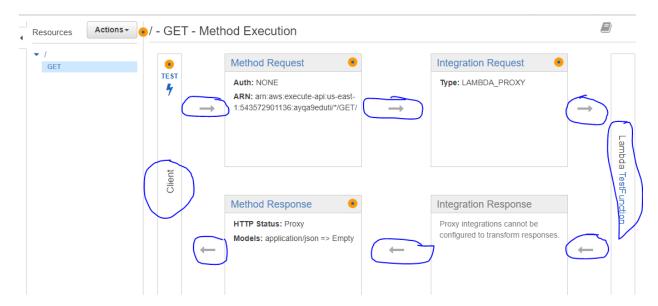
Select the lambda function which is created before:



You are giving the permission to lamdba function and that is what we needed.

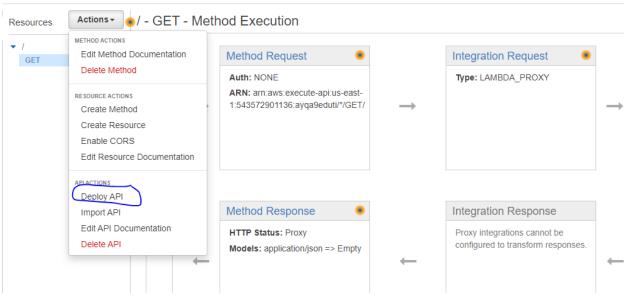


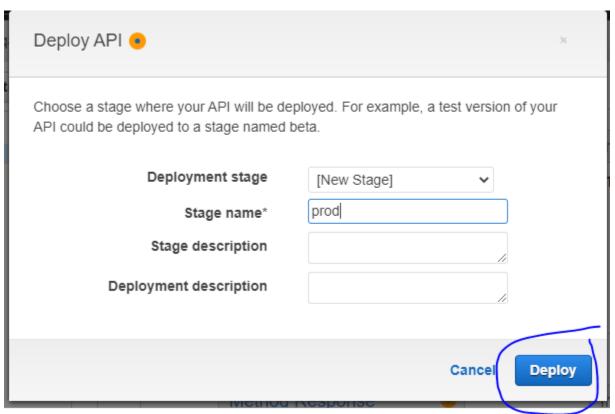
Once it is saved u get a pane opened with all the options

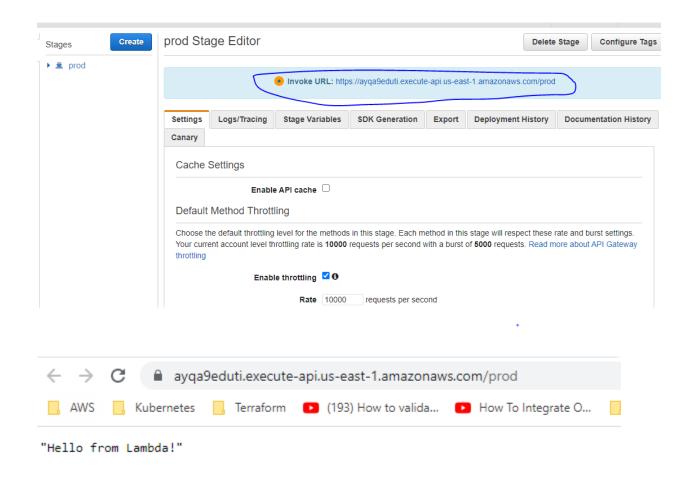


The flow is shown here, when it is tested from client it goes to method request(GET) and Integreation Request and hits the lamdba function and then it gives the response back: here Integration Response is greyedout and it returns to the Client.

Now click on Deploy API



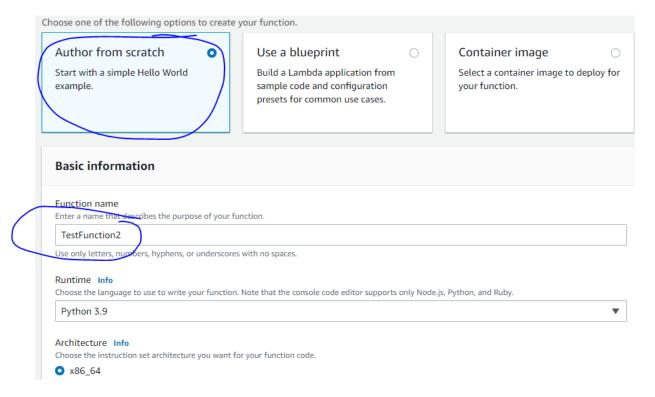




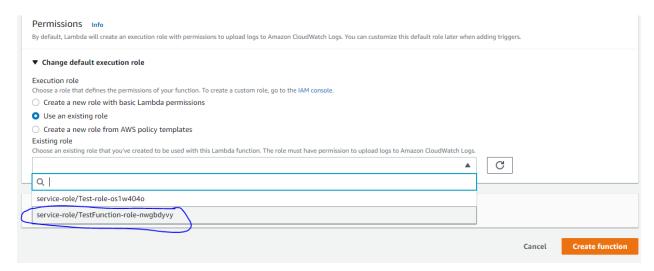
https://ayqa9eduti.execute-api.us-east-1.amazonaws.com/prod

Adding a parameter to the lambda function:

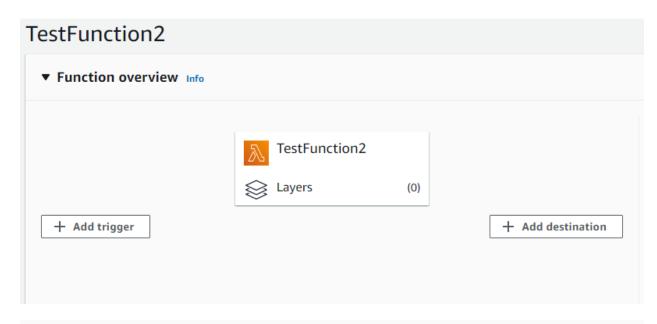
Create a new lambda function:

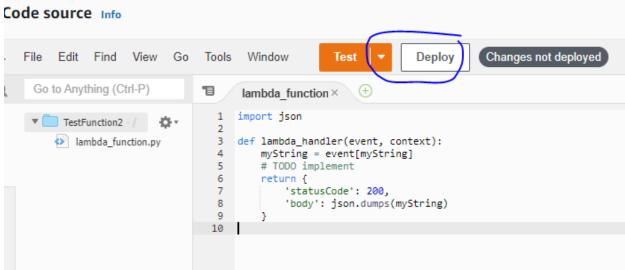


Select the existing Role:



TestFunction2 Created:



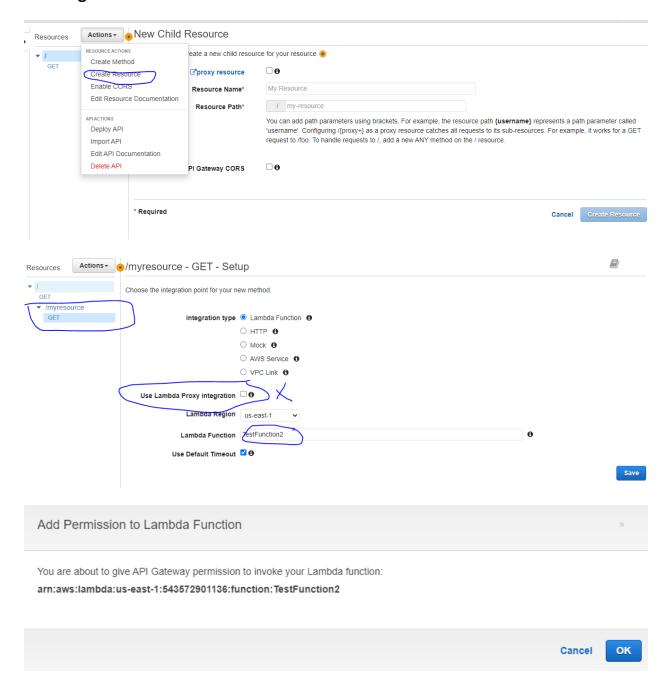


import json

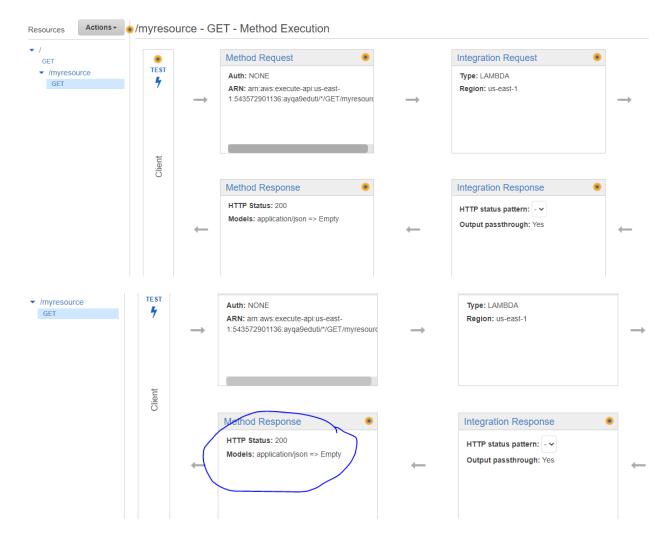
```
def lambda_handler(event,context):
  myString = event[myString]
  return{
  'statusCode': 200,
  'body': json.dumps(myString)
}
```

Now, we are going to add resource method and parameter to the REST api in the API gateway:

Creating Resource:



Now see the pane where we can see the integration pane is not greyed out:

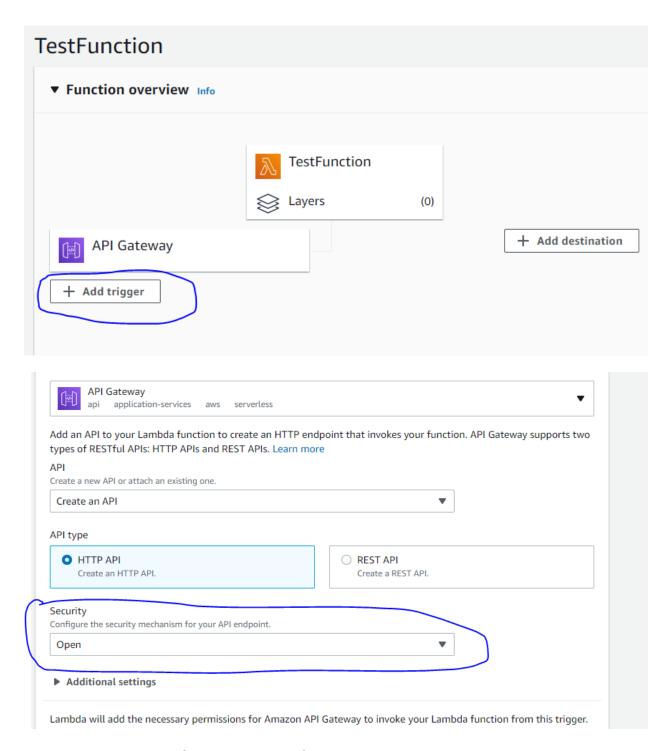


Then deploy the API.

Now:

Adding the API gateway from the lambda function:

Go to Lambda function, add trigger and select api gateway:



Now, we have 2 API for the lambda function: TestFunction



API Gateway: newapi

arn:aws:execute-api:us-east-1:543572901136:ayqa9eduti/*/GET/

API endpoint: https://ayqa9eduti.execute-api.us-east-1.amazonaws.com/prod/

▼ Details

API type: REST

Authorization: NONE

Method: GET

Resource path: /

Stage: prod



API Gateway: TestFunction-API

arn:aws:execute-api:us-east-1:543572901136:tszm3p4268/*/*/TestFunction

API endpoint: https://tszm3p4268.execute-api.us-east-1.amazonaws.com/default/TestFunction

▼ Details

API: api-gateway/tszm3p4268/*/*/TestFunction

API name: TestFunction-API

API type: HTTP

Authorization: NONE

Cross-origin resource sharing (CORS): No

Enable detailed metrics: No

Method: ANY

Resource path: /TestFunction

Security: **NONE** Stage: **default**

Both API Endpoint gives the same output.

Last Step is creating API using MOCK:

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