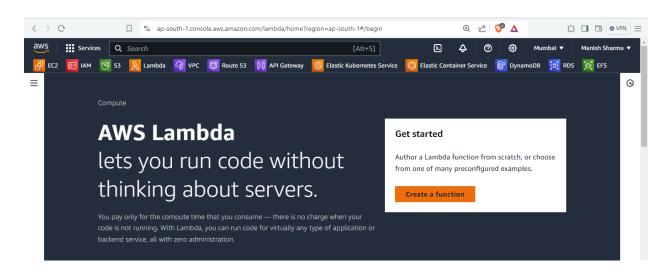
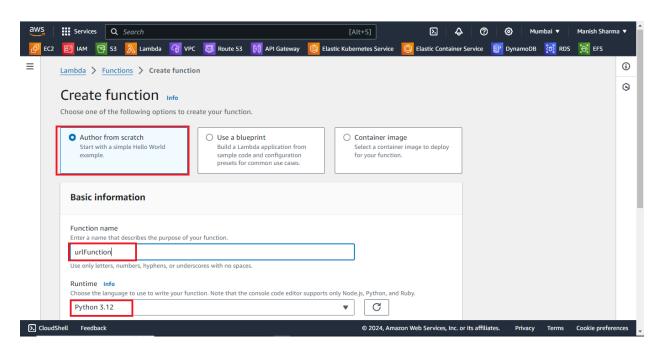
Setting Up an AWS Lambda Function with URL Trigger Using API Gateway (REST API)

Step 1. Define a Function

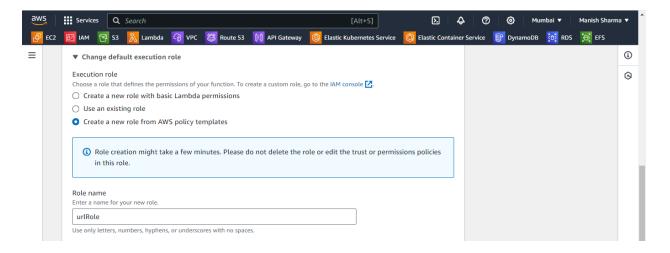
• Go to the Lambda Console and click on Create Function.



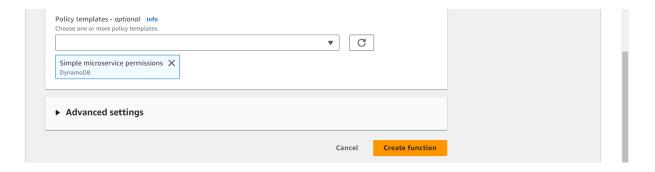
- Give the function a name, such as **urlFunction**.
- Select Python3 as the runtime.



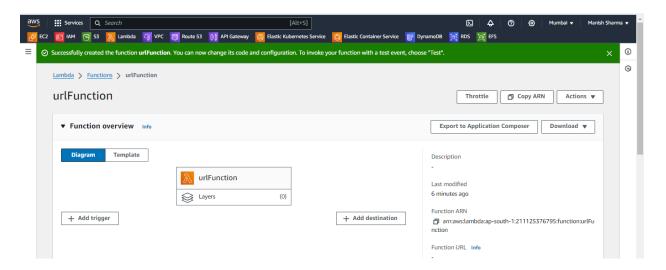
Attach an IAM role by selecting "Create a new role from AWS policy templates".



 In Policy Templates, select Simple Microservice Permissions and Click on Create Function.



Next, You see the urlFunction Overview Dashboard

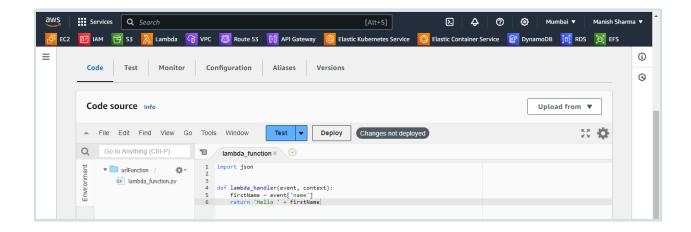


 Next, you should see a text editor where you will insert a code similar to the following

Function's code

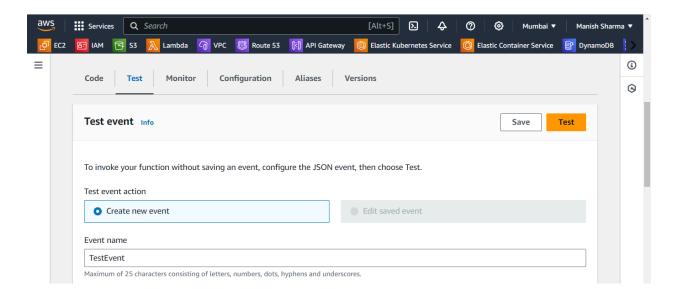
import json

def lambda_handler(event, context):
 firstName = event['name']
 return 'Hello ' + firstName



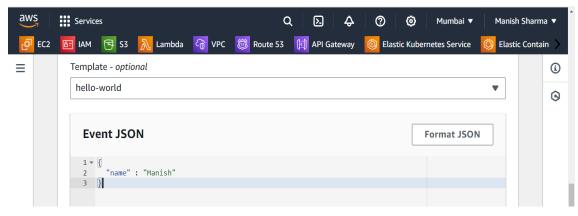
Step 2 Define a test

- 1. Now let's test the function. Click on "Test".
- 2. Select "Create new test event"
- 3. Set the "Event name" to whatever you'd like. For example "TestEvent"

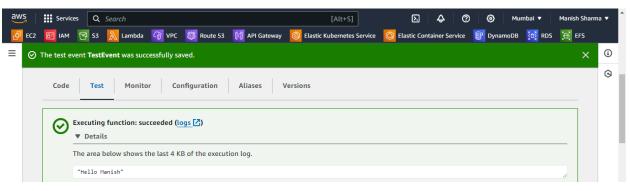


4. Provide keys to test

```
{
"name" : "Manish"
}
```

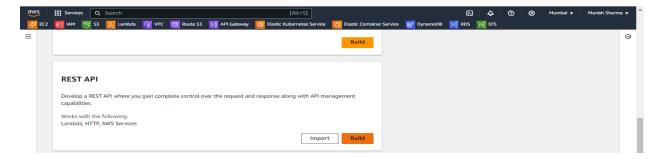


- 5. Click on "Save" and then the "Test" button.
- 6. You should see something similar to Execution result: succeeded

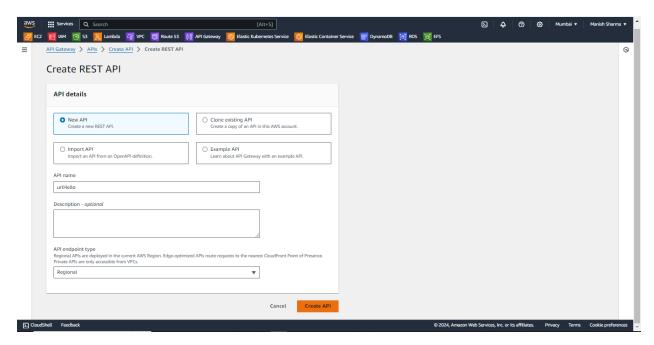


Step 3 Define a Trigger

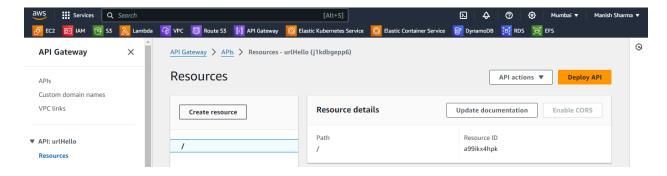
- Go to the API Gateway Console.
- Click on Create API and choose REST API and then click on Build.



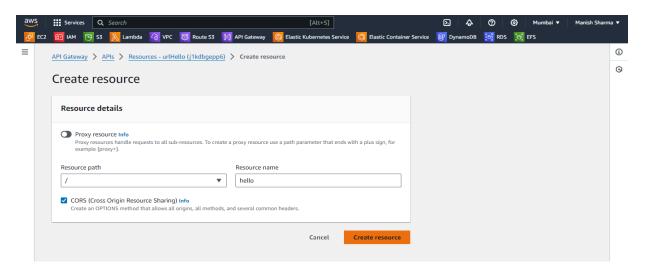
- Provide the API details and name whatever you want for the API like "urlHello" and a description if needed.
- Choose Regional as the endpoint type, then click Create API.



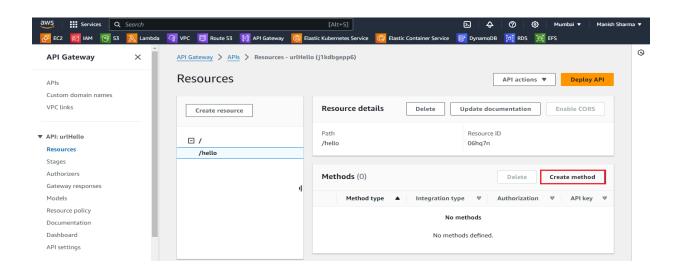
• Nest you will see Resources Dashboard and select Create Resource.



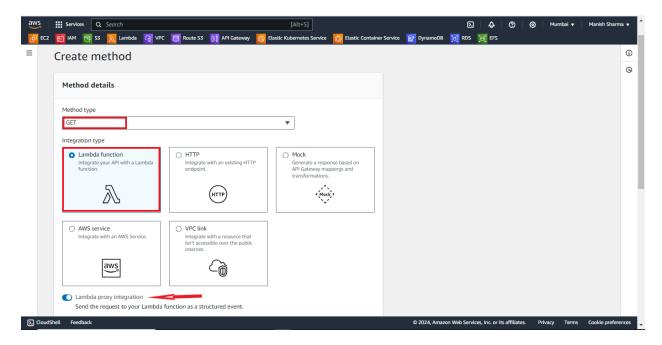
- Provide a Resource Name (e.g., hello) and check mark on CORS.
- Click on Create Resource.



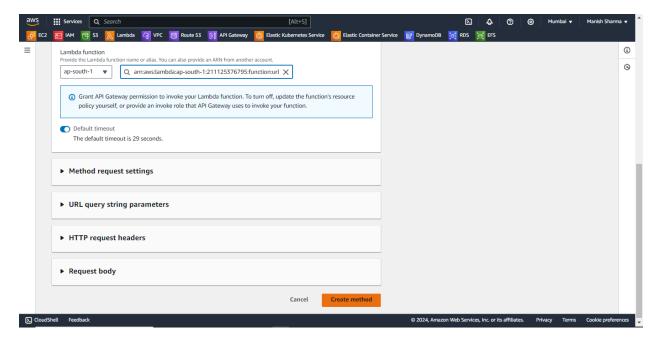
Now select the new created resource "hello" and choose Create Method.



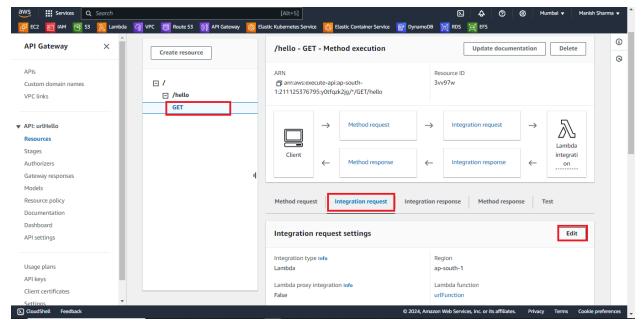
- Now Select GET from the dropdown and click on the checkmark to confirm.
- In the Integration type select Lambda Function.
- Ensure the Use Lambda Proxy Integration box is checked.



• In the **Lambda Function** field, type the name of your Lambda function (e.g., urlFunction), and click on **Create Method**.

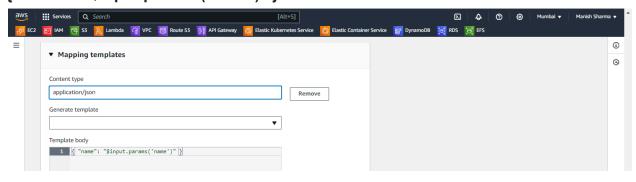


• Now click on created method (GET method) and modify "Integration Request":



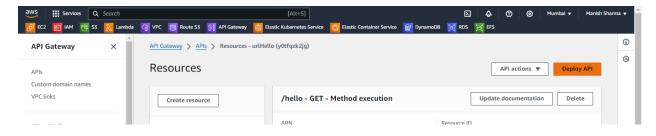
 In the last section you will see a "Mapping templates" option so add the below template and click on Save.

{ "name": "\$input.params('name')" }

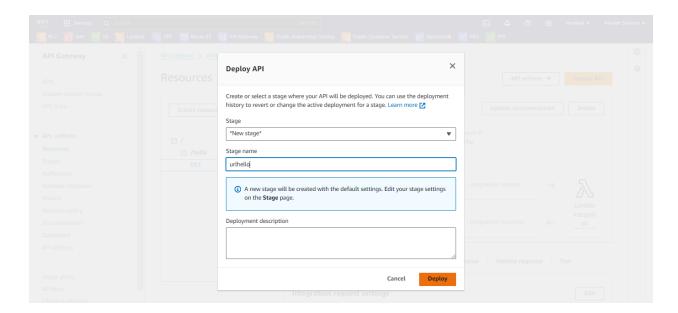


Step 4 Deploy the API

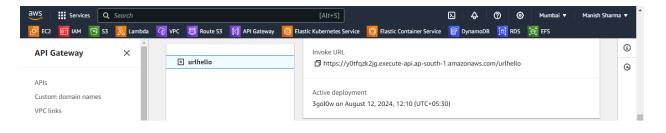
• Now, click on **Deploy API**.



- Create a new **Deployment Stage** (e.g., urlhello) or choose an existing one and provide a description whatever you want.
- Click Deploy.



• After deployment, You'll see an **Invoke URL** for the API. This URL will look something like https://<api-id>.execute-api.<region>.amazonaws.com/urlhello.



Step 5 Final step Test the Function

- To test the function, you can click on. You might have to modify it to include the input so it looks similar to this: .../hello?name=Manish
- Open this URL in your browser, and you should see Hello Manish.



"Hello Manish"

Connect with me on LinkedIn: linkedin.com/in/manish-g0u74m