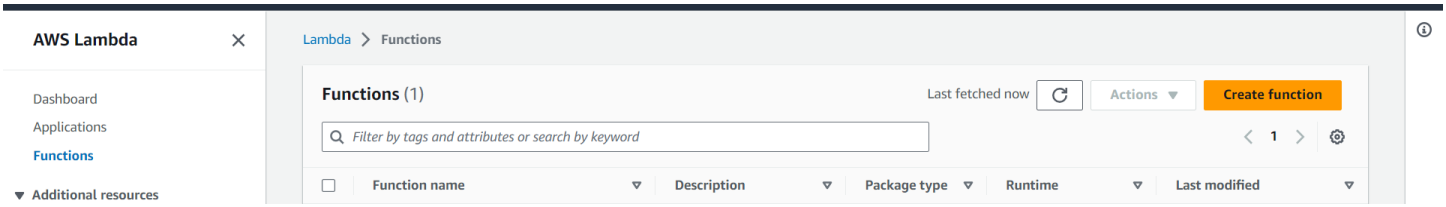
Task-2

Serverless Function on AWS

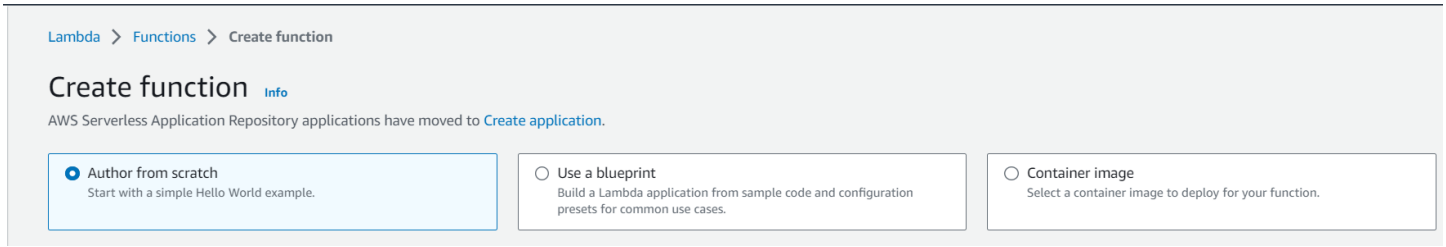
Aim: Create a serverless function using AWS Lambda, which allows you to run code without provisioning or managing servers. Develop a simple function (e.g., a function that generates random numbers) and trigger it through API Gateway.

Steps 1: Set Up AWS Lambda Function

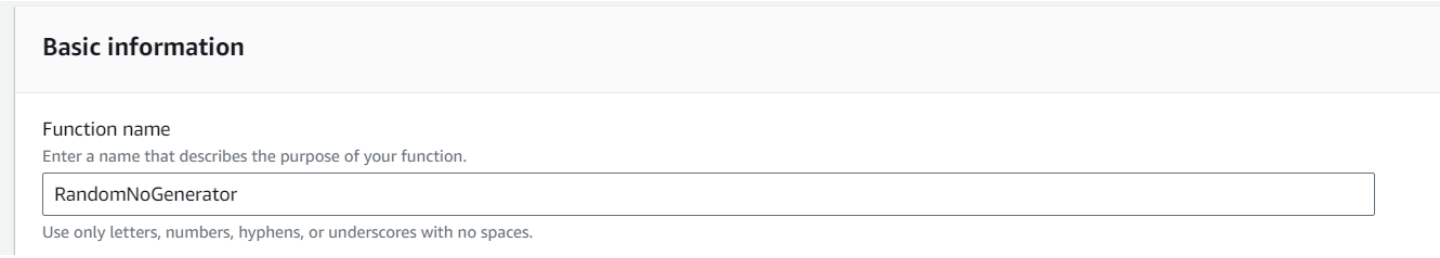
a) Navigate to the Lambda service.
b) Click the "Create function" button.



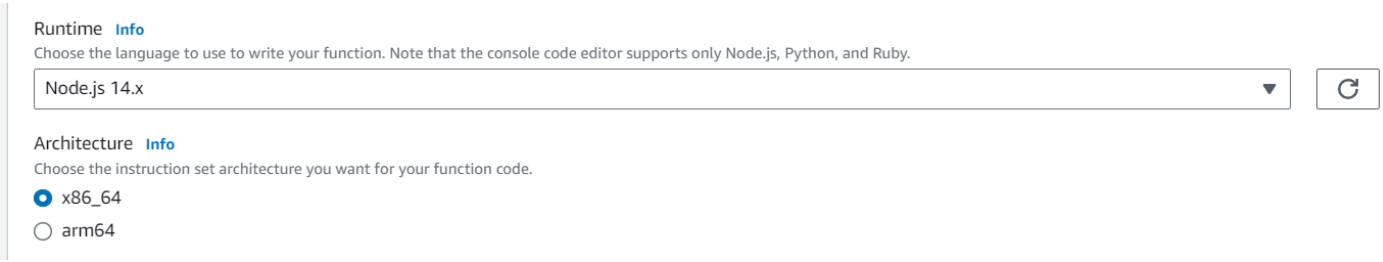
c) Choose "Author from scratch" and fill in the following details:



d) Function name: “RandomNoGenerator”.



e) Runtime: Choose the runtime you prefer (e.g., Node.js 14.x)

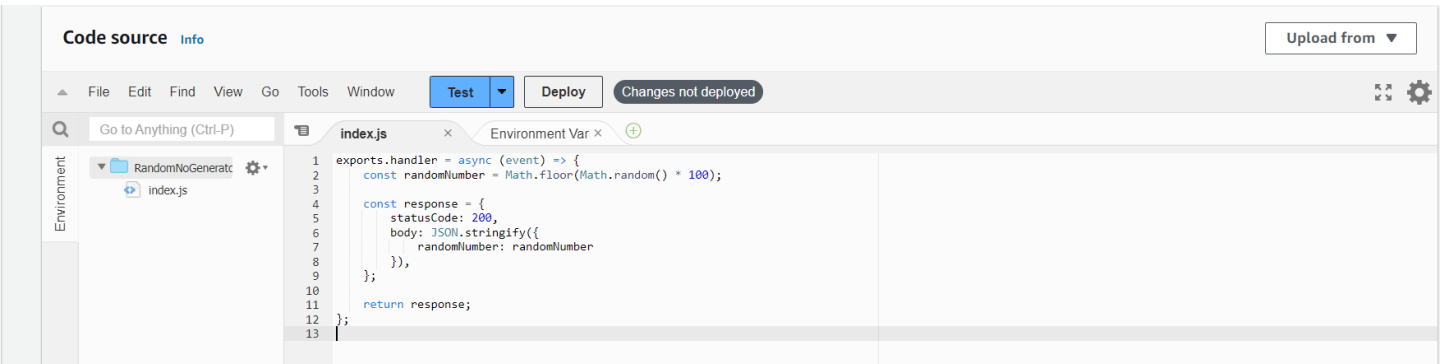


f) Click the "Create function" button.

g) In the "Function code" section, you can paste the following Node.js code that generates a random number:

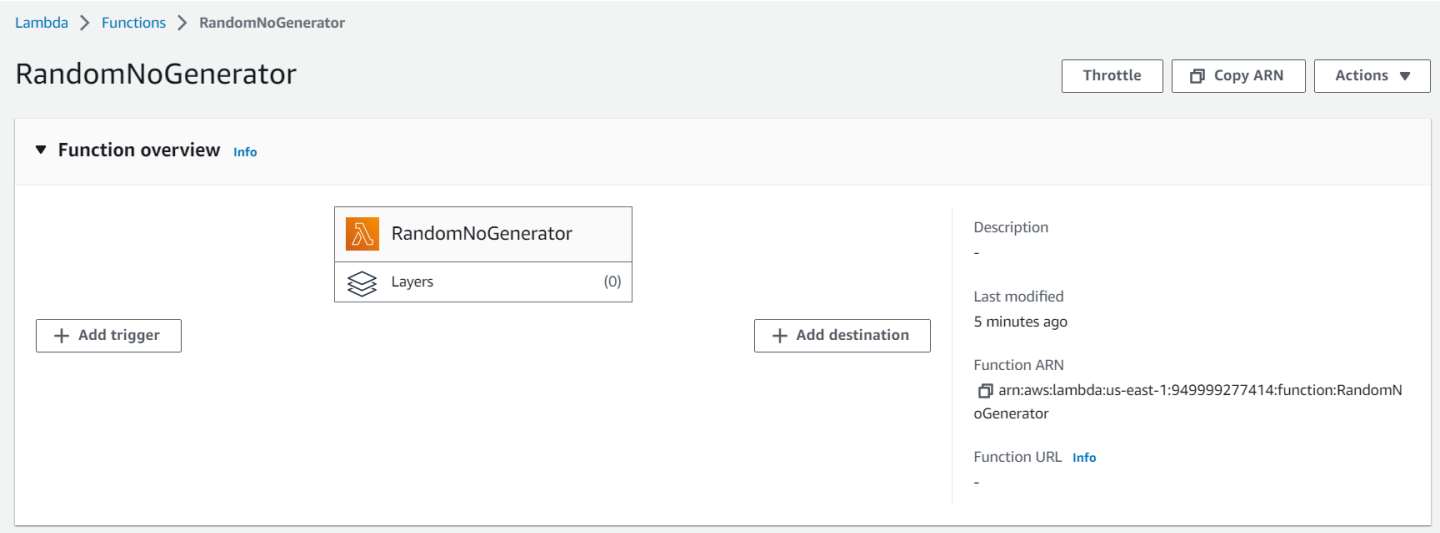
```
exports.handler = async (event) => {
    const randomNumber = Math.floor(Math.random() * 100);

    const response = {
        statusCode: 200,
        body: JSON.stringify({
            randomNumber: randomNumber
        }),
    };
    return response;
};
```

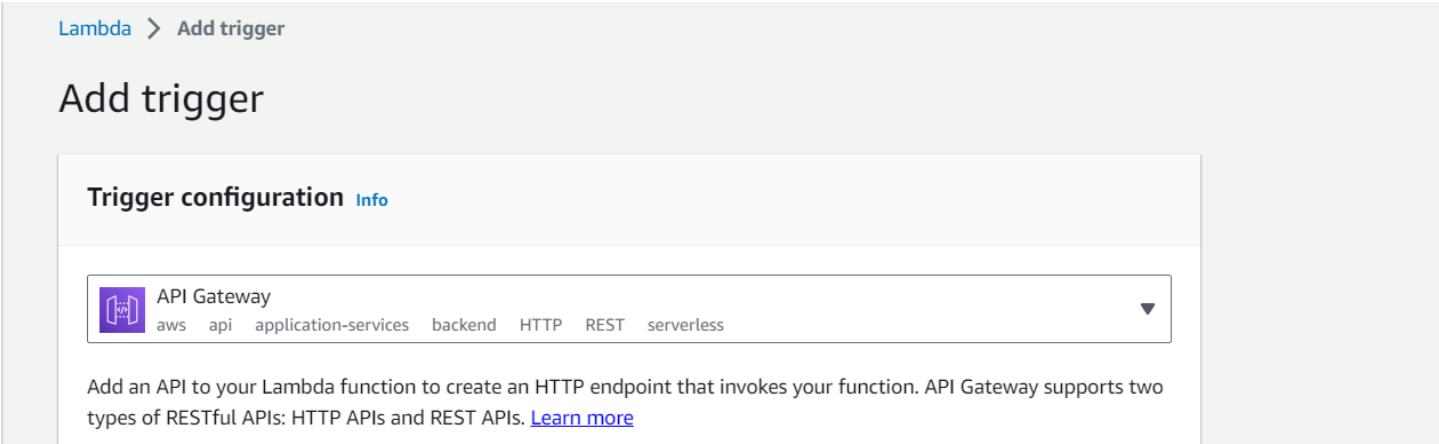


Step 2: Set Up API Gateway

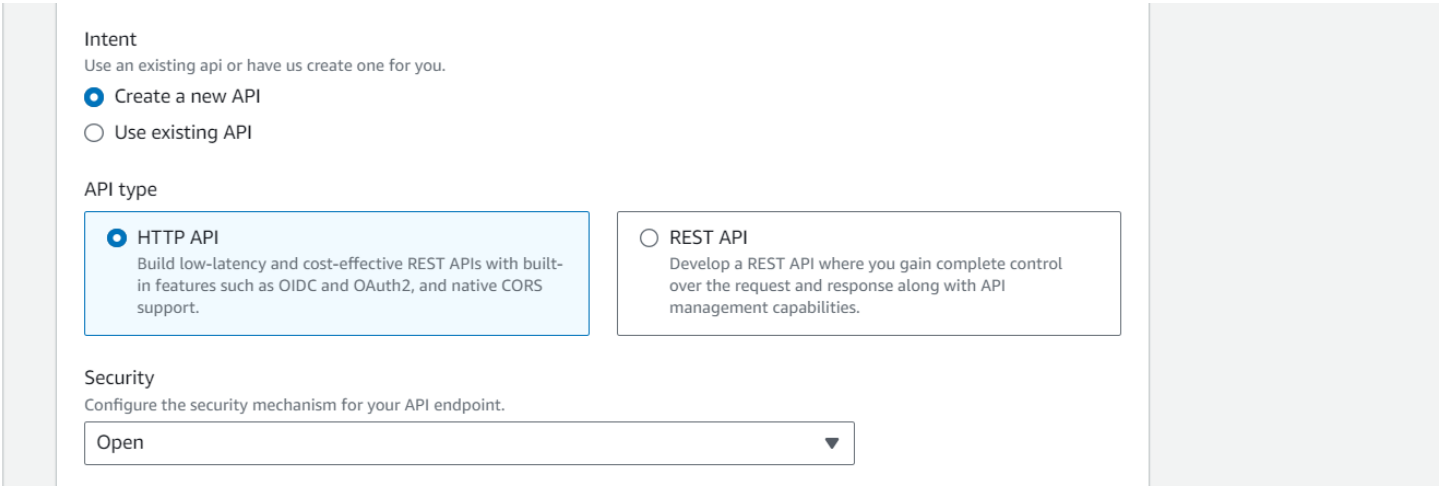
a) Once the Lambda function is created, click on the "Add trigger" button.



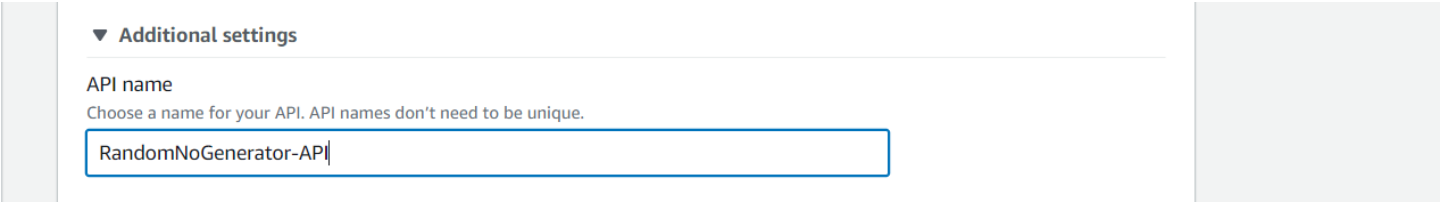
b) Choose "API Gateway" as the trigger type.



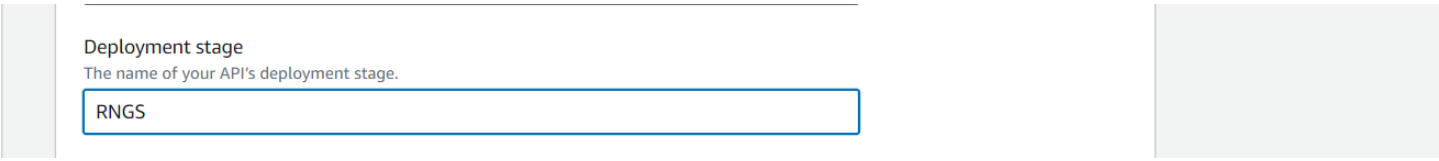
c) In the "Configure triggers" section, choose "Create an API" and fill in the following details:



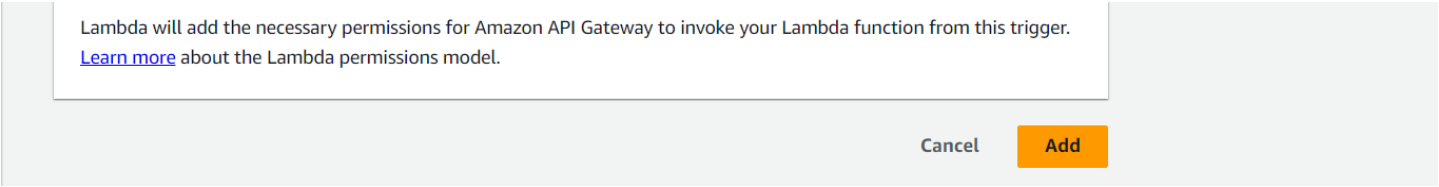
d) API name: RandomNoGenerator-API



e) Deployment stage: [Create new stage]

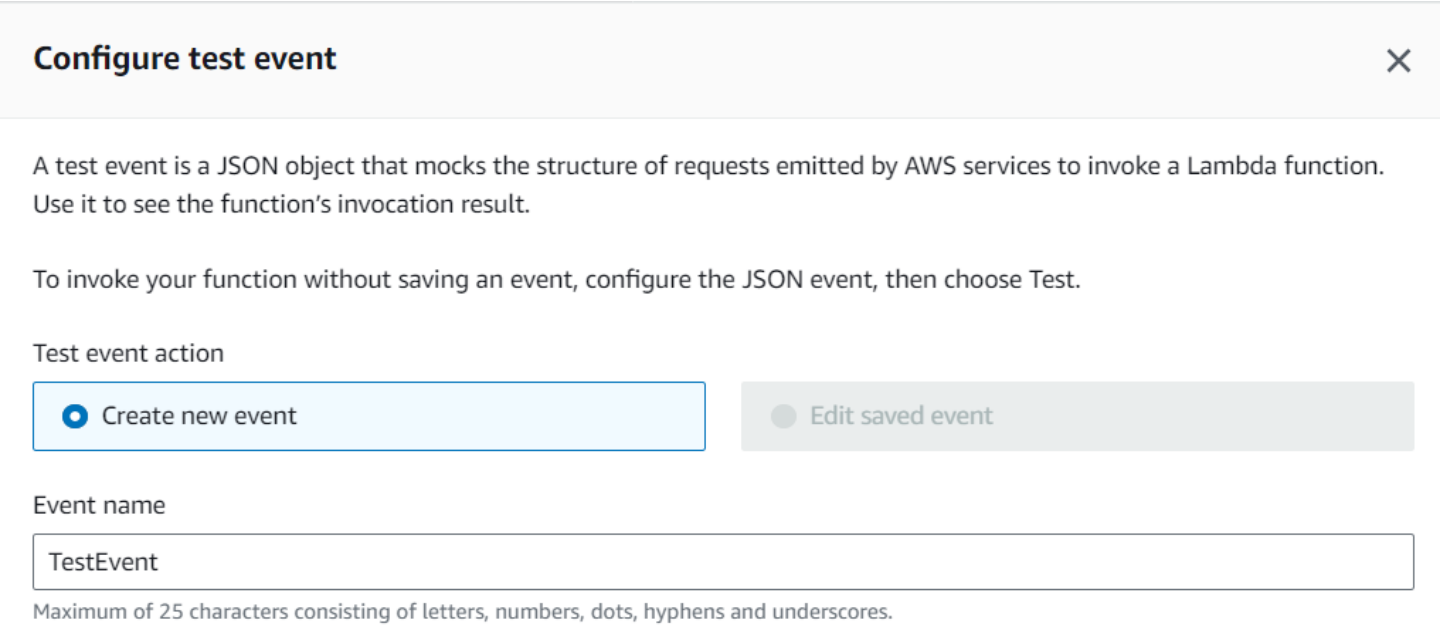


f) Click the "Add" button to create the API Gateway.

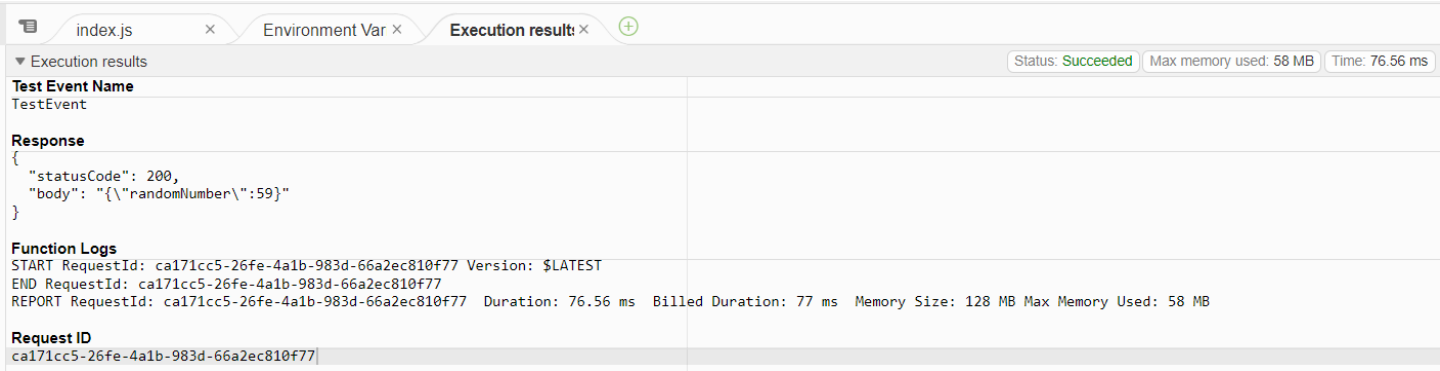


Step 3: Test and Deploy the code.

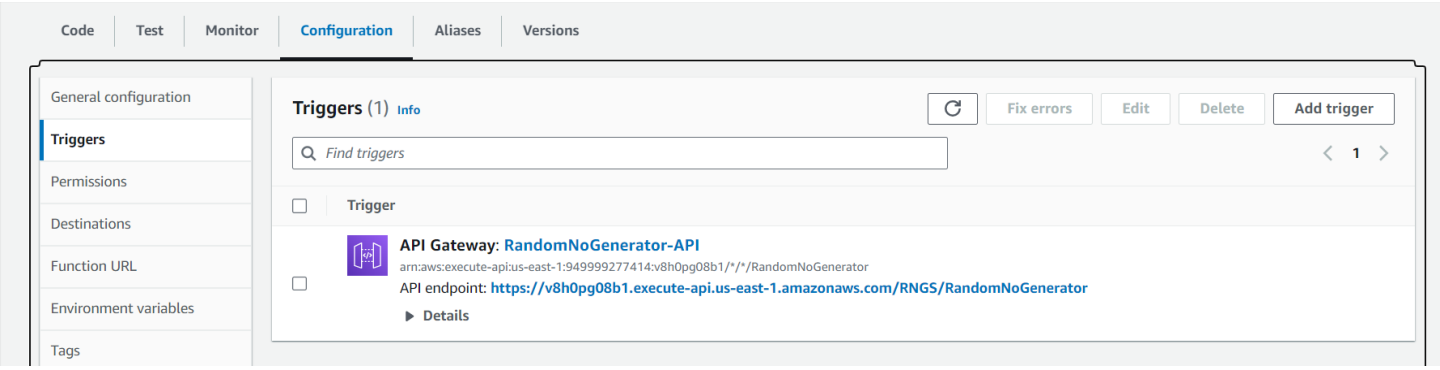
a) Select Test event action as “Create new event ” and Event name: “TestEvent” and Click on Save Button.



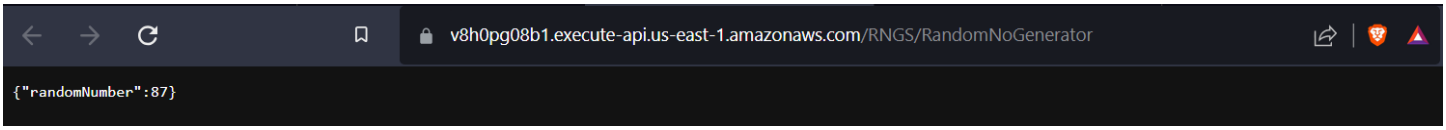
b) Then test the code and deploy it.

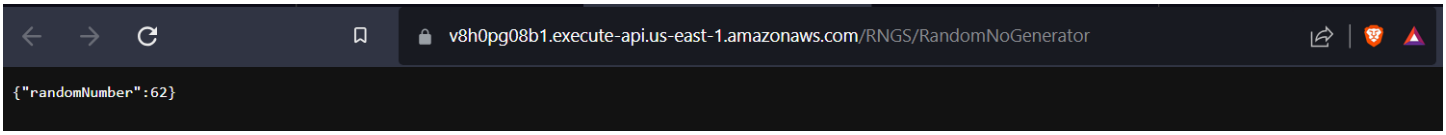


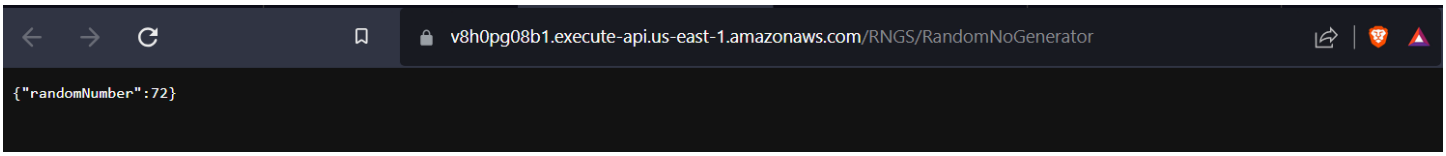
c) Go to Configuration and in trigger click on API endpoint “ https://v8h0pg08b1.execute-api.us-east-1.amazonaws.com/RNGS/RandomNoGenerator”



d) The result







Conclusion: We have successfully created a serverless function using AWS Lambda and triggered it through API Gateway. This simple example demonstrates the power of serverless computing and event-driven architectures. we can further enhance this project by adding more complex logic to your Lambda function and implementing different types of triggers and event sources.