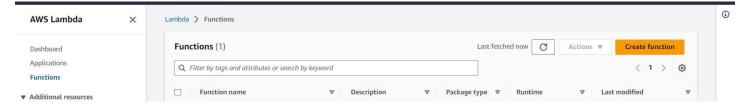
Task-1

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. This project introduces you to serverless computing and event-driven architectures.

Steps 1: Create an AWS Lambda Function

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



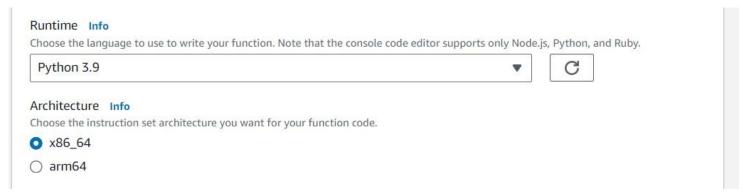
c) Choose "Author from scratch" and fill in the following details:



d) Function name: "RendomNoGen".



e) Runtime: Choose the runtime you prefer (e.g., Python 3.9)



- f) Click the "Create function" button.
- g) In the "Function code" section, you can paste the following Python code that generates a random number:



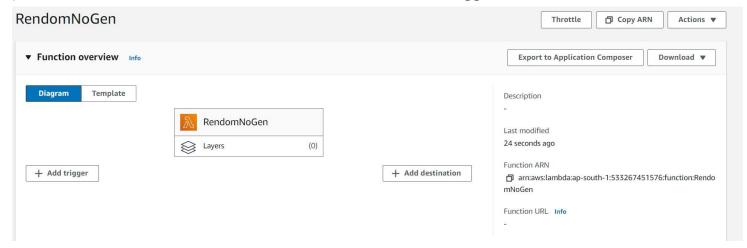
- h) Update Function Configuration (Optional):
 - (Optional) You can adjust memory and timeout settings based on your needs under "Configuration". i)

Deploy the Function:

• Click on "Actions" and select "Deploy".

Step 2: Set Up API Gateway

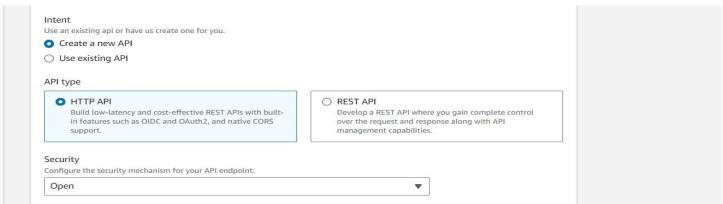
a) Once the Lambda function is created, click on the "Add trigger" button.



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: RendomNoGen-API

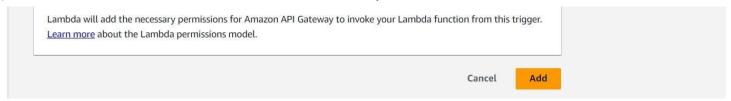
Additional settings

API name

Choose a name for your API. API names don't need to be unique.

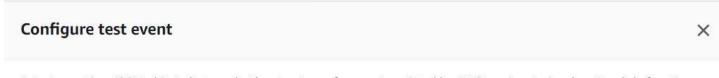
RendomNoGen-API

e) 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.



A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.

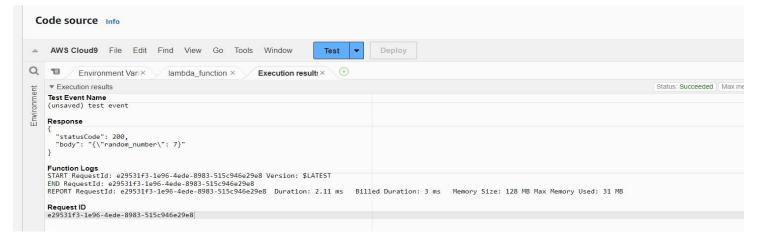
To invoke your function without saving an event, configure the JSON event, then choose Test.

Test event action

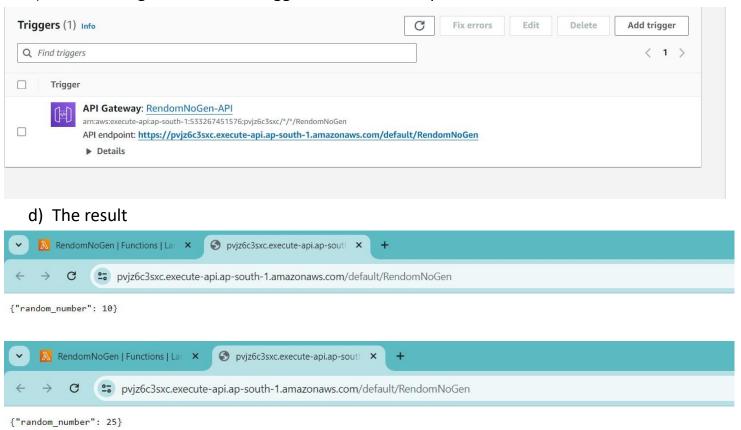


Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.

b) Then test the code and deploy it.



c) Go to Configuration and in trigger click on API endpoint ""



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.