



Acmegrade Cloud Computing Project

- Minor Project: Create Lambda Function in Python (Any code of Your choice) and show how to trigger using Amazon API Gateways.

ABSTRACT

This document outlines the process of creating an AWS Lambda function using Python and demonstrates how to trigger the function using Amazon API Gateway. AWS Lambda is a serverless compute service that allows you to run code in response to events without the need to provision or manage servers. Amazon API Gateway is a service that enables you to create, publish, maintain, monitor, and secure APIs at any scale.

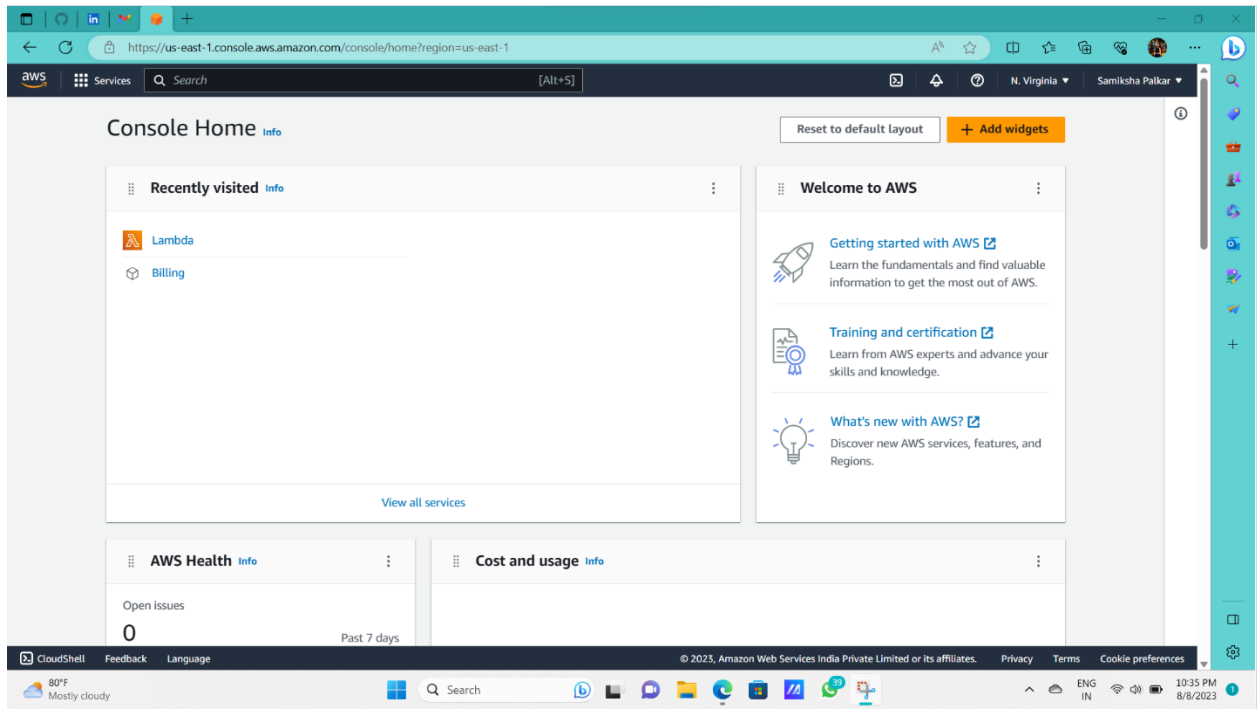
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Month Opted: June 2023

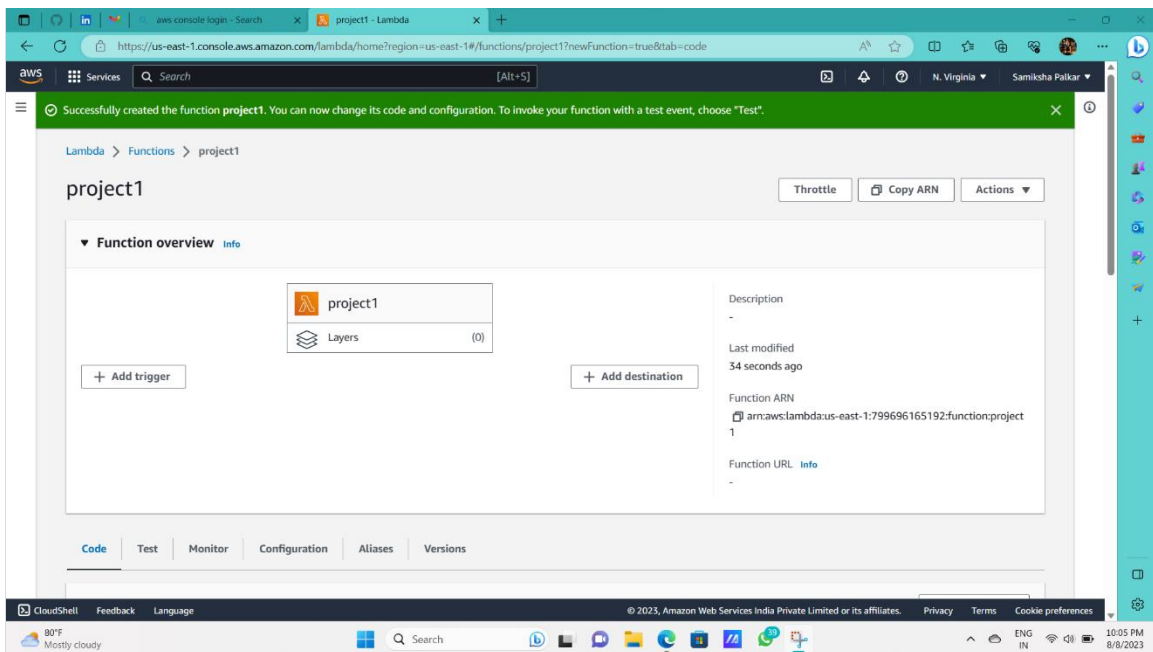
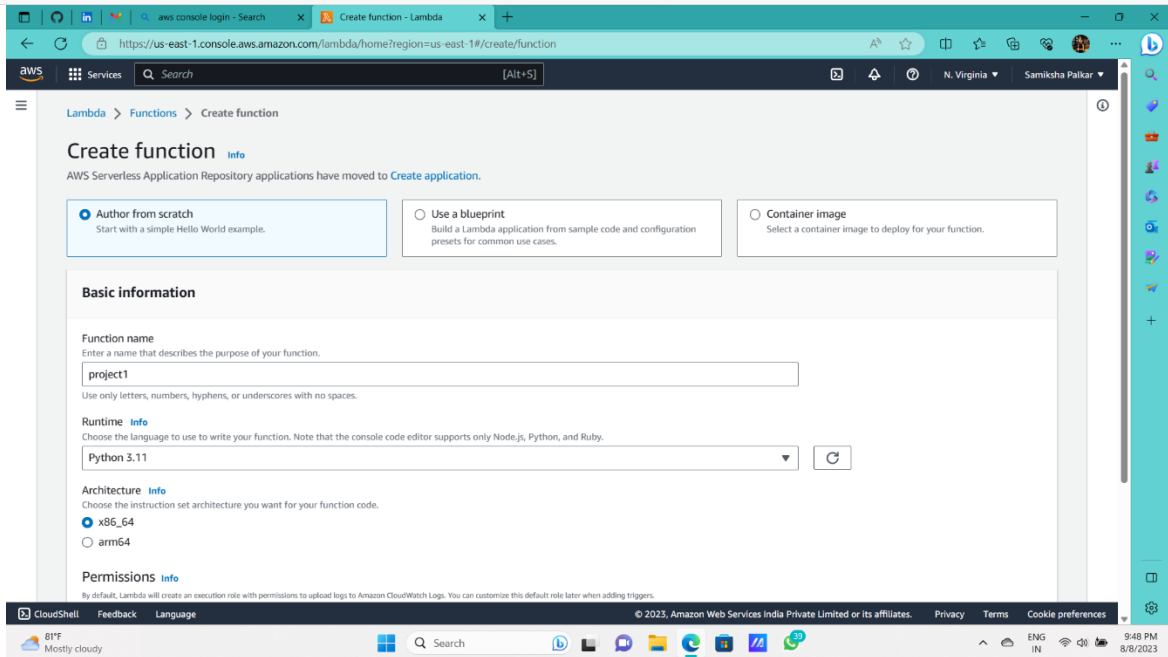
Creating a Lambda Function in Python:

- **Login to AWS Console:** Log in to your AWS Management Console.

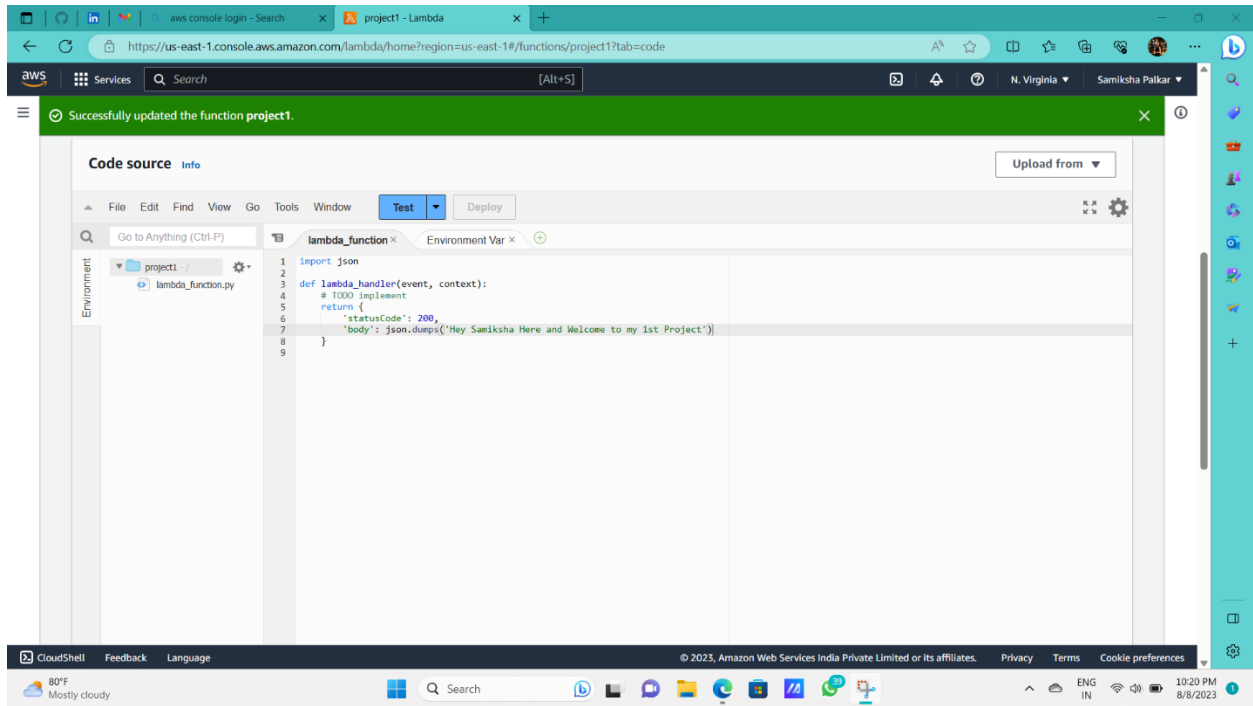


- **Create a Lambda Function:**

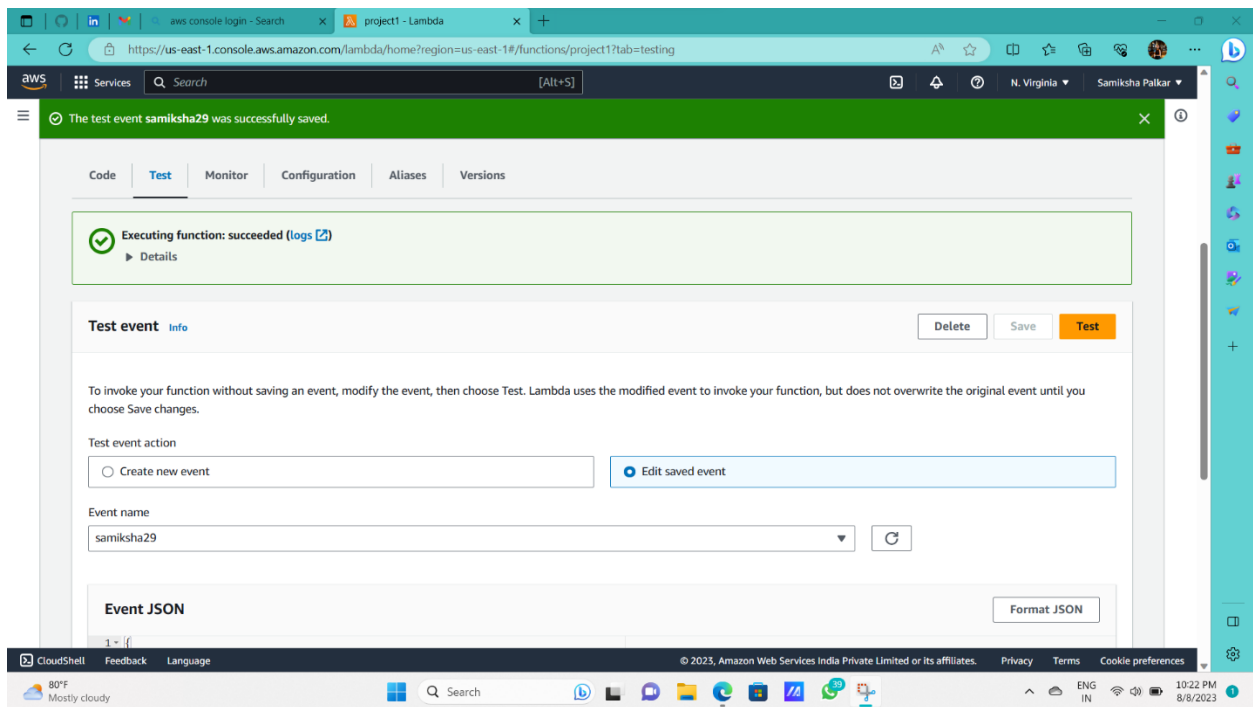
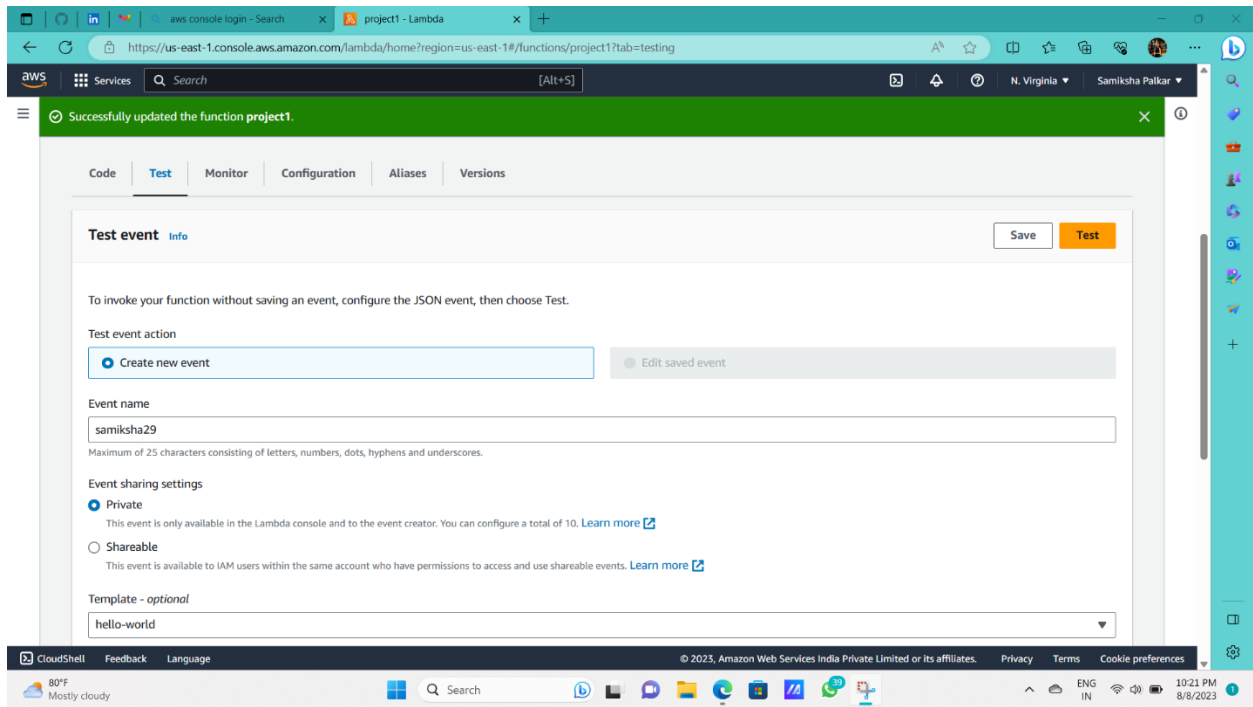
1. Choose "Lambda" from the AWS services menu.
2. Click the "Create function" button.
3. Select "Author from scratch."
4. Fill in the function details:
 - a. Function name: Enter a name for your function.
 - b. Runtime: Choose "Python".
5. Click "Create function."



- **Add Code to the Function:**



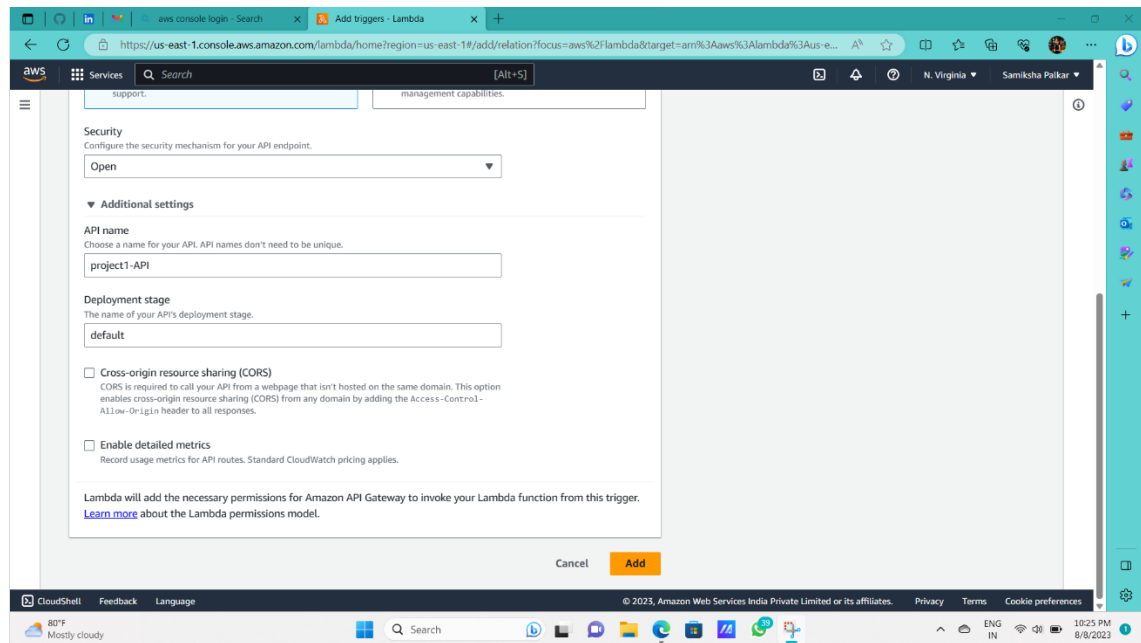
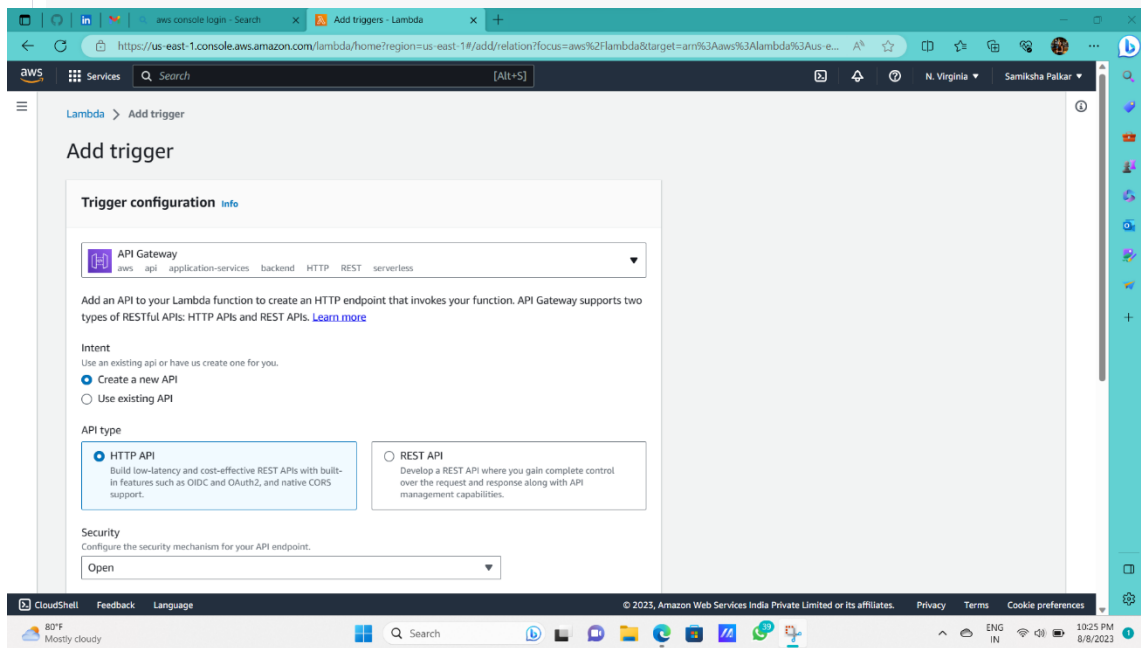
● Save and Deploy the Function:



Setting Up Amazon API Gateway:

- **Create an API:**

1. In the AWS Management Console, navigate to the "API Gateway" service.
2. Click the "Create API" button.
3. Choose "HTTP API".
4. Configure your API settings and click "Create API."



Testing the Setup:

The screenshot displays the AWS Lambda console interface for a function named 'project1'. The 'Configuration' tab is selected, and the 'Triggers' section is expanded. A single trigger is listed, configured for an API Gateway. The trigger details include the name 'project1-API', the ARN 'arn:aws:execute-api:us-east-1:799696165192:7k21vhnbu/*/*/*project1', and the API endpoint 'https://7k21vhnbu.execute-api.us-east-1.amazonaws.com/default/project1'. The left sidebar shows various configuration options like General configuration, Permissions, Destinations, Function URL, Environment variables, Tags, VPC, Monitoring and operations tools, Concurrency, Asynchronous invocation, Code signing, Database proxies, and File systems. The top navigation bar includes tabs for Code, Test, Monitor, Configuration, Aliases, and Versions. The bottom status bar shows the date and time as 10:27 PM on 8/8/2023.

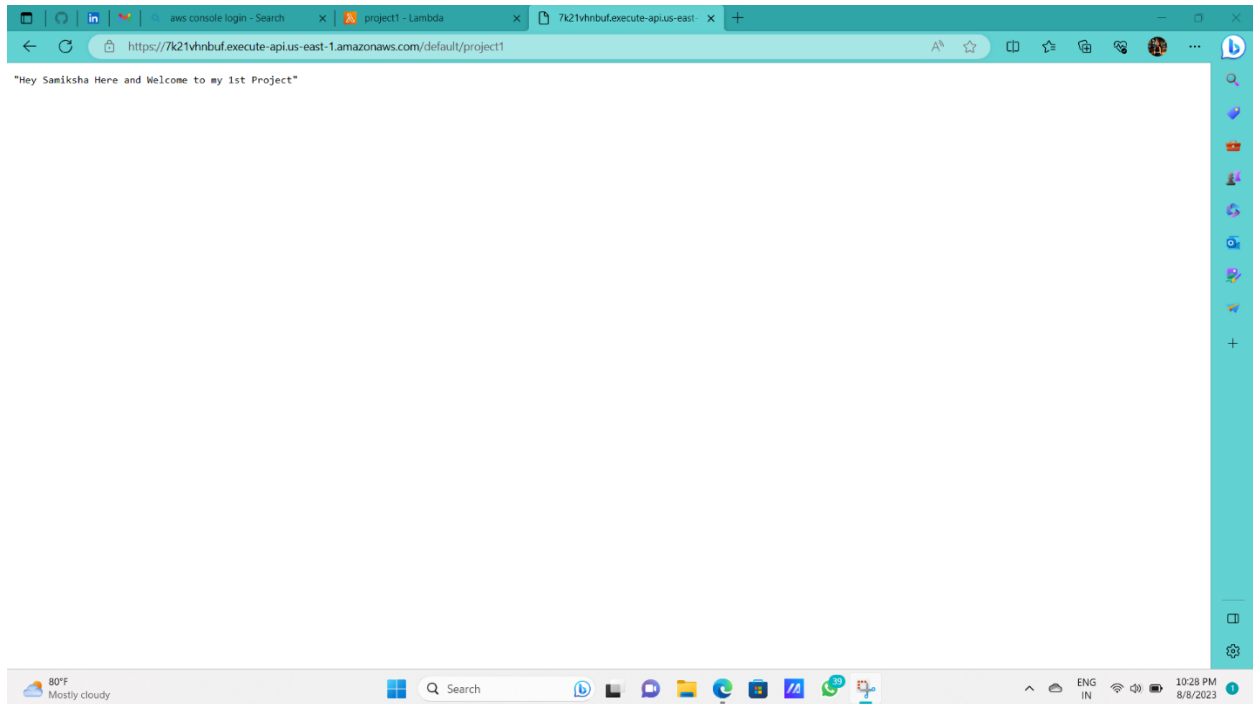
Triggers (1) Info

Find triggers

Trigger

API Gateway: **project1-API**
arn:aws:execute-api:us-east-1:799696165192:7k21vhnbu/*/*/*project1
API endpoint: <https://7k21vhnbu.execute-api.us-east-1.amazonaws.com/default/project1>
Details

Output:



THANK YOU