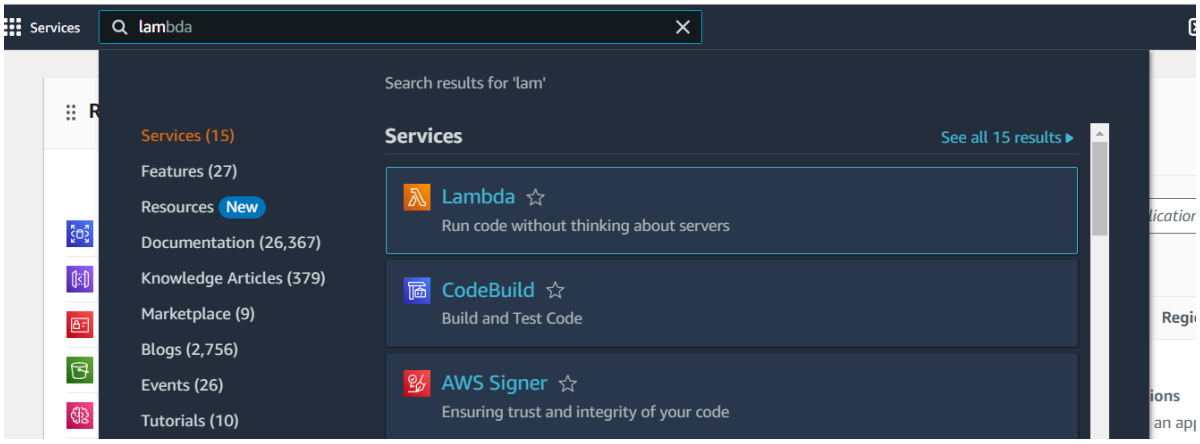
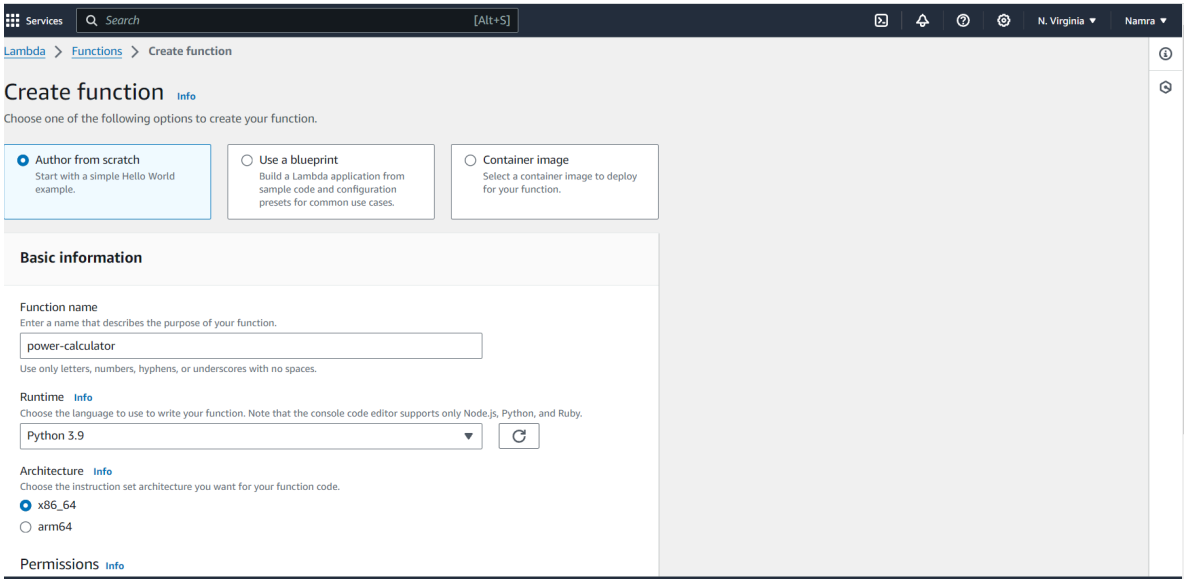
Task-2 Serverless Function on AWS

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 triggers it through API Gateway.

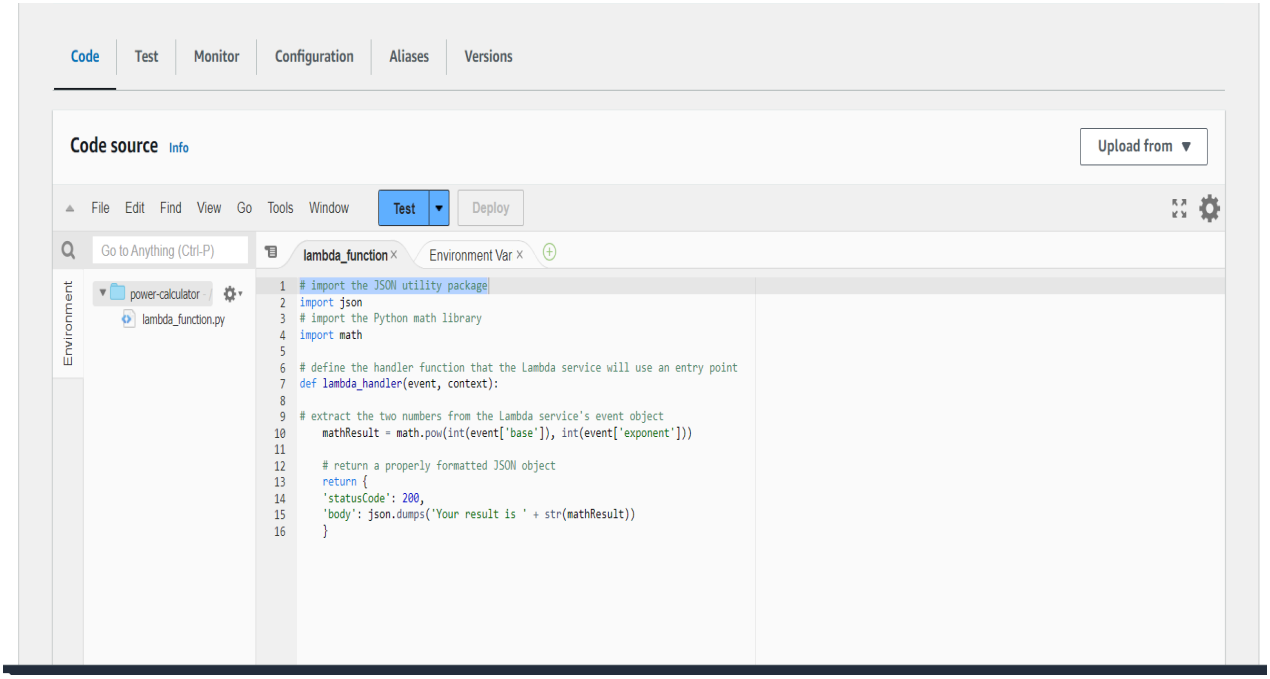
Step 1: Navigate to the AWS console and in their search AWS Lambda



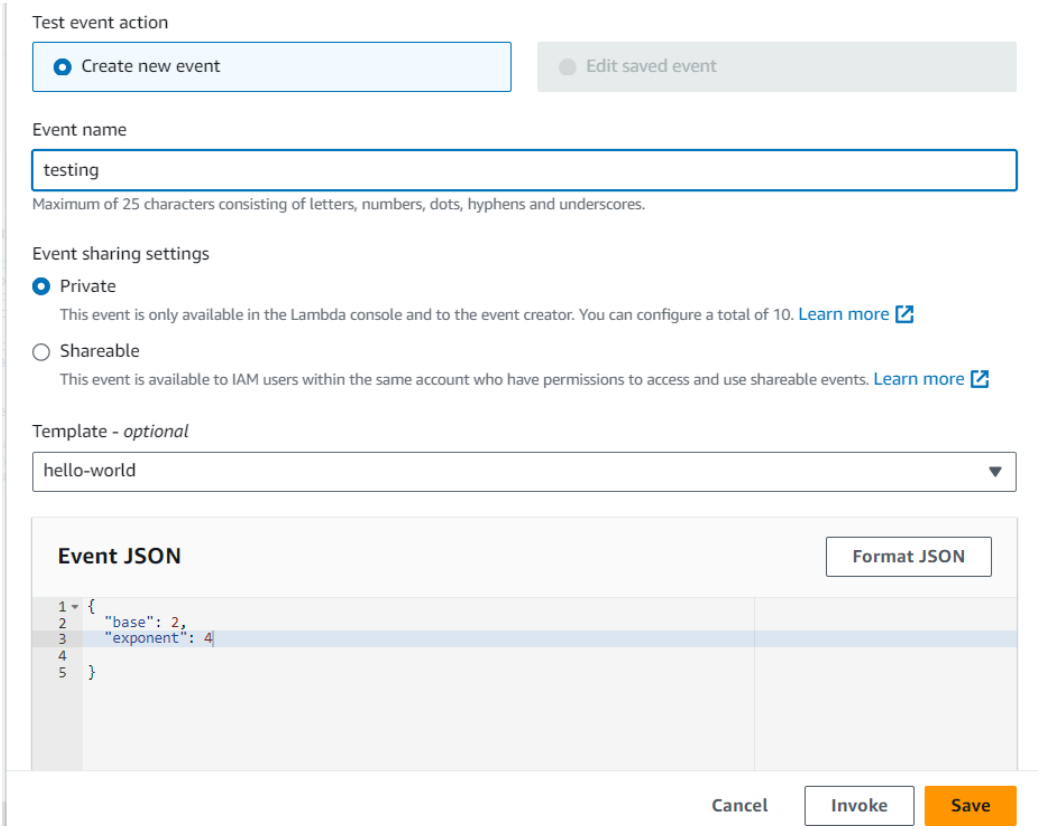
Step 2 : Click on create function,give name and choose runtime enviroment



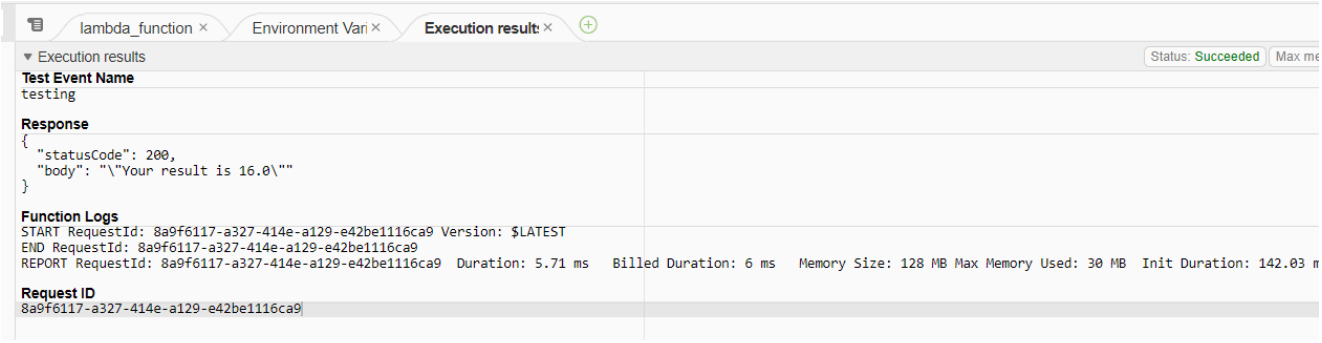
Step 3: Add code to lambda function



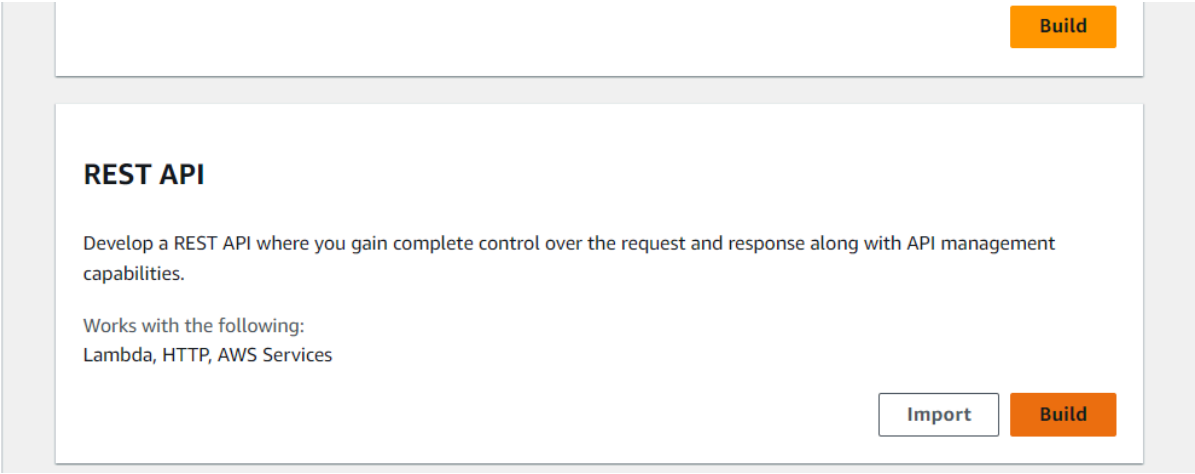
Step 4: configure test case for testing code



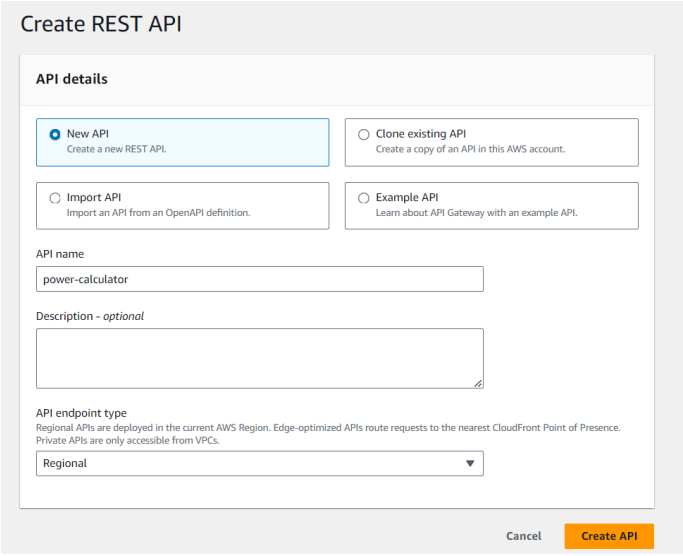
Step 5: test successful code working properly



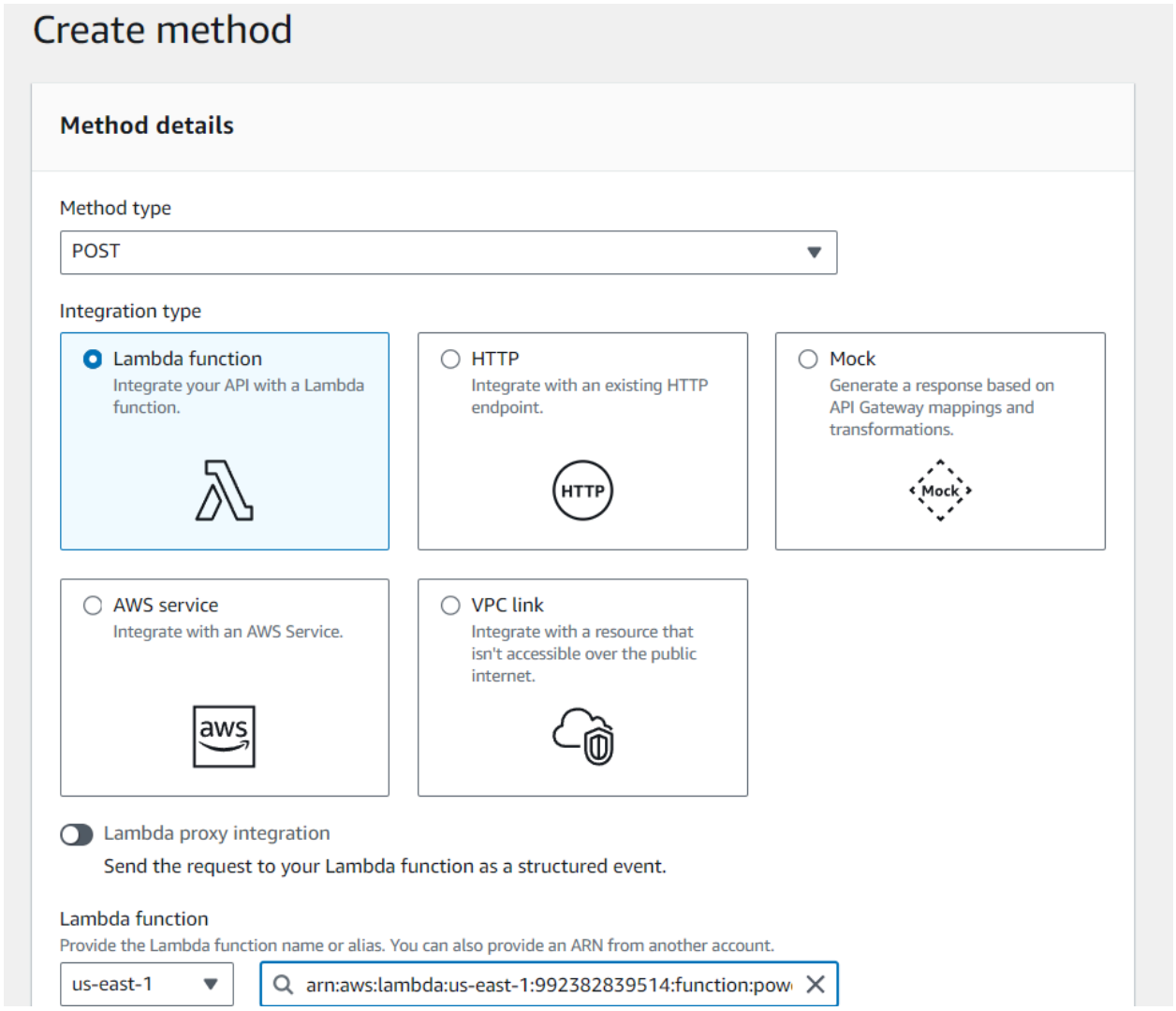
Step 6: Create Api gateway for triggering Lambda function,select rest api



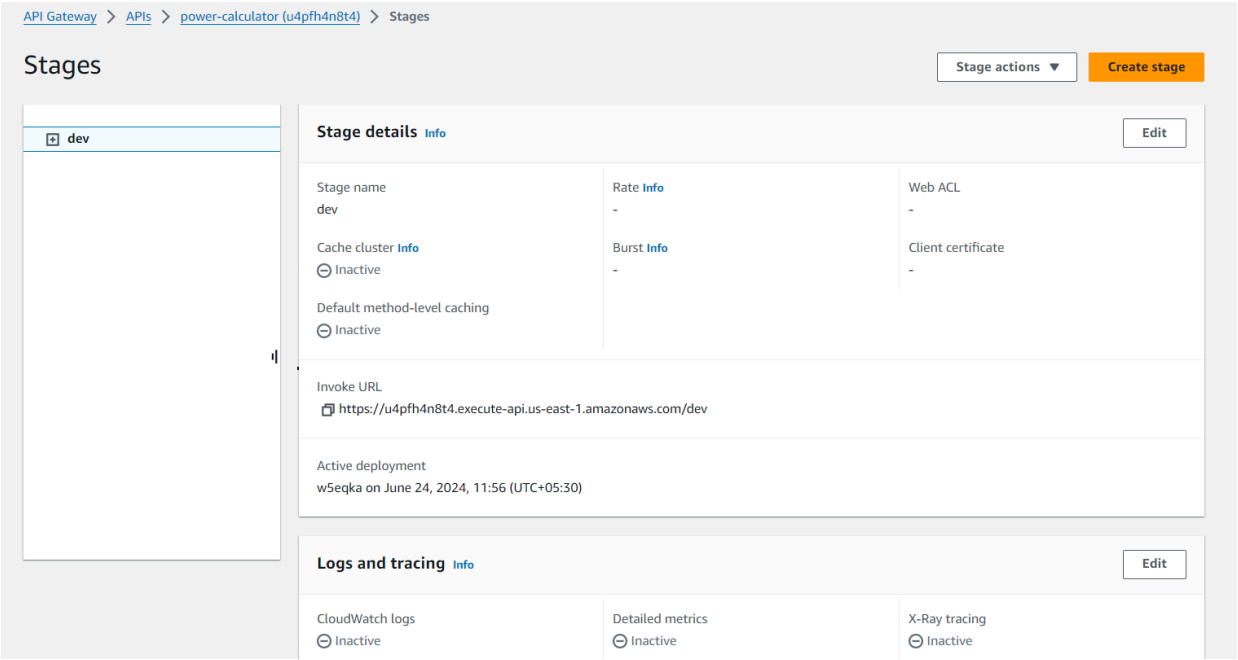
Step 7: provide name of api



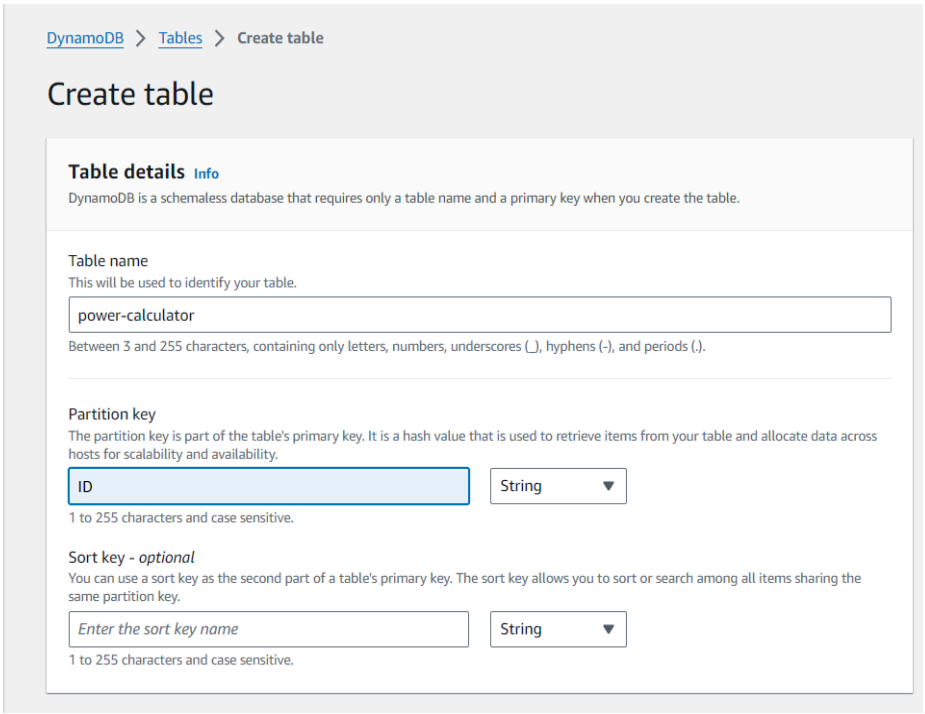
Step 8: after api created click on create method for this we need post method for providing input to function and select service to integrate with



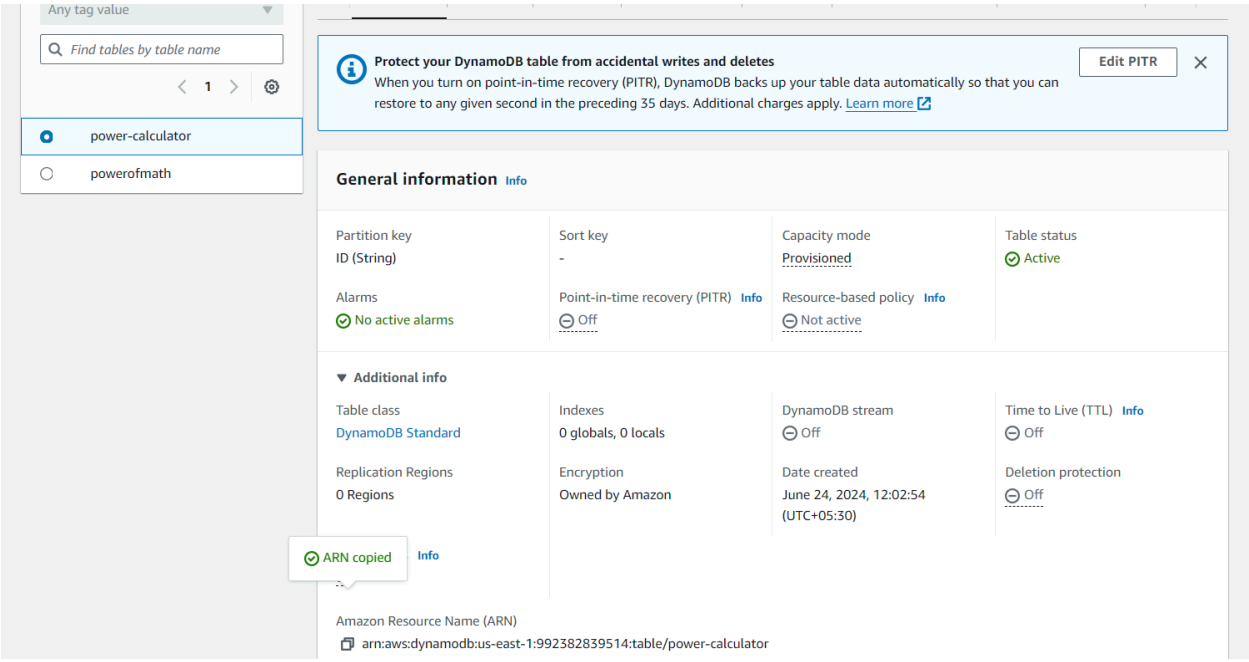
Step 9: after that click on deploy api and your api will be created ,copy that invoke url it will be needed



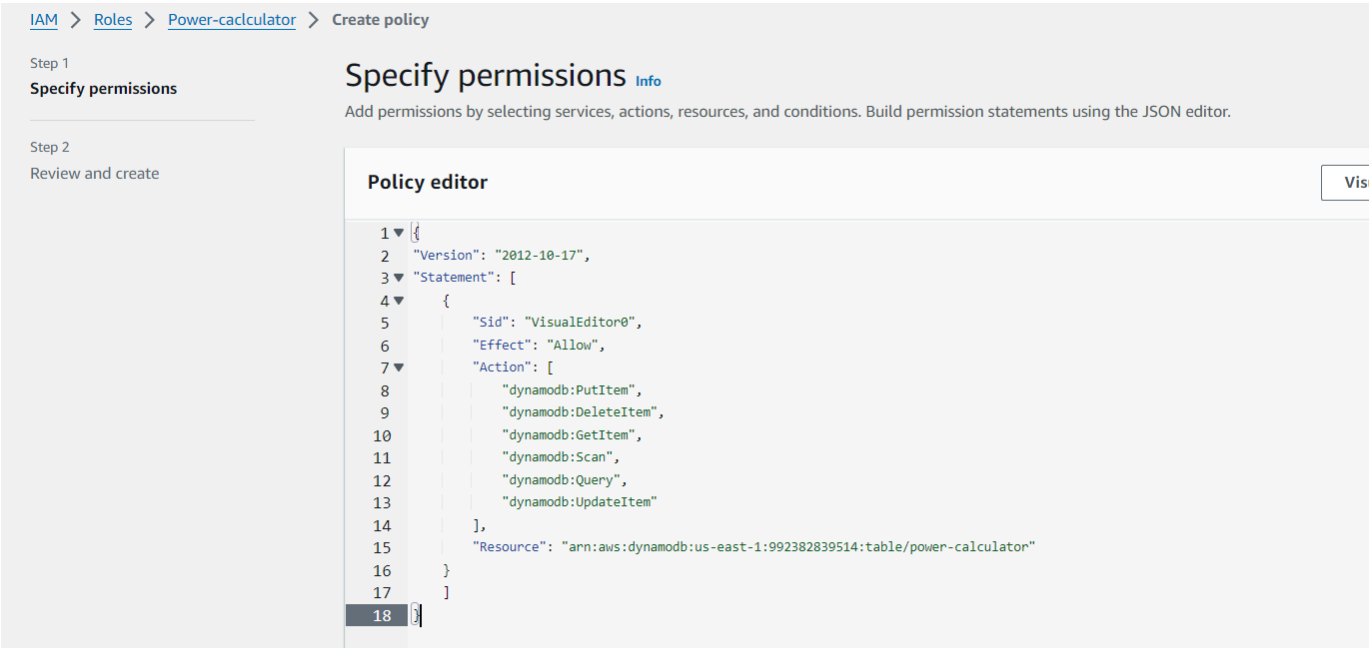
Step 10: go to dynamo db and create table as we want to store our result in table



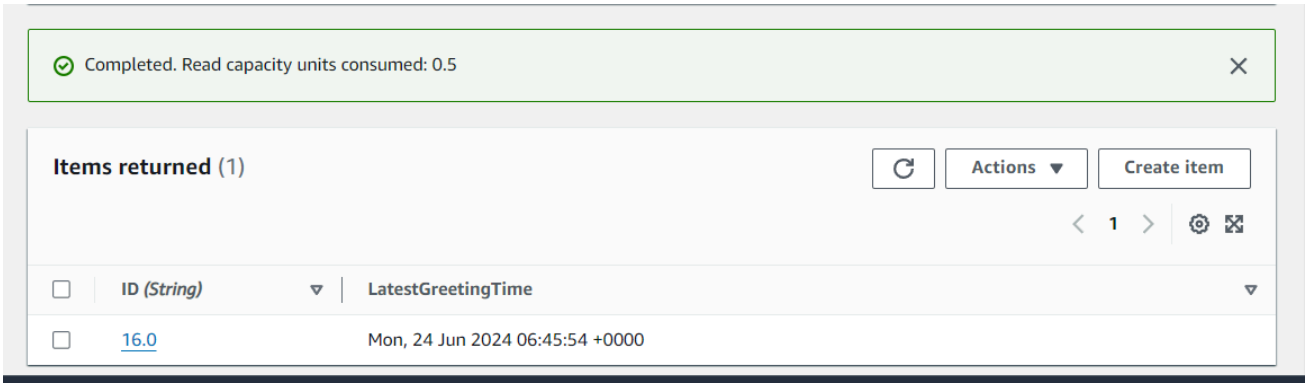
Step 11 : go to created table and inside general information their is table arn copy that it will require for allowing lambda function to make changes to table



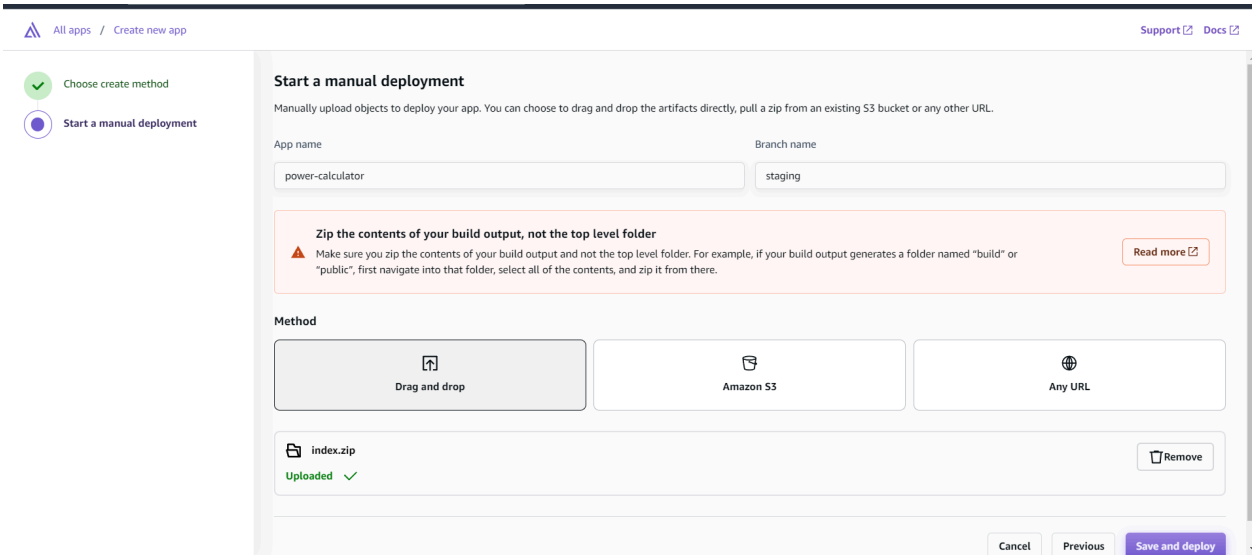
Step 12 : go to lambda function and inside that go to configuration click on role it will navigate you to IAM in that along with lambda function attach inline policy for allowing lambda function to access dynamo db table



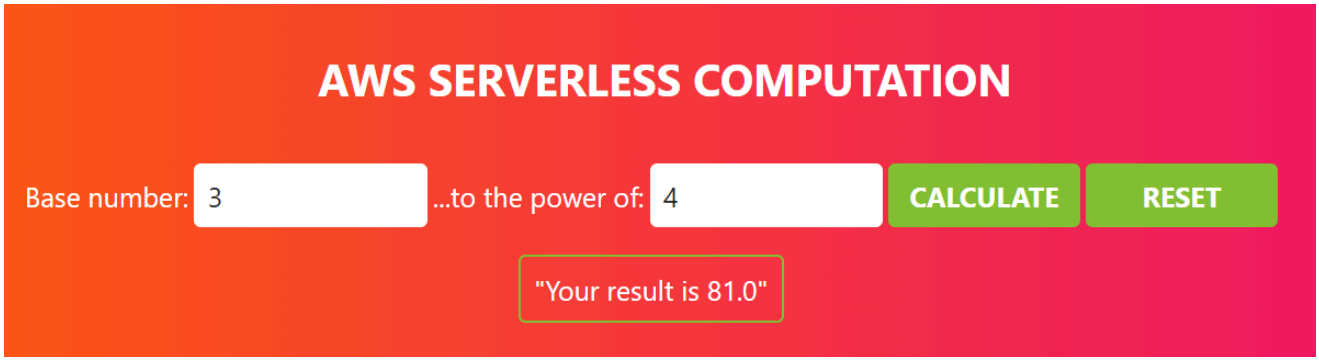
Step 13 : go to lambda function again test the code and then go check dynamo db table values will be added to it



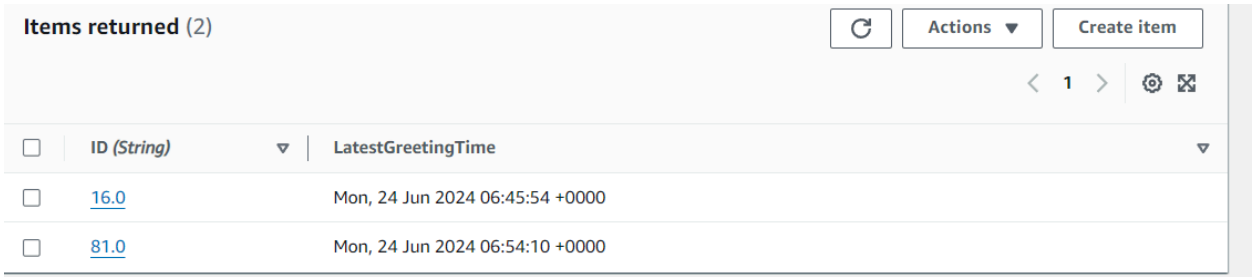
Step 14 : go to AWS amplify for hosting your browser in it



Step 15 : once deployed click on url provided, your website will be live and you can test it



Item saved in database also



Summary

In this I have built a serverless power-calculator application in which I have used AWS lambda service ,dynamo-db,api gateway,aws amplify .When user open application they provide input in browser which hosted on AWS amplify when user click on calculate request(POST) from browser go to AWS lambda using api gateway which will trigger AWS lambda .Lambda will perform computation and after that it will store result in database .so we have make serverless application for which we don't need to run server when we needed then only function get triggered