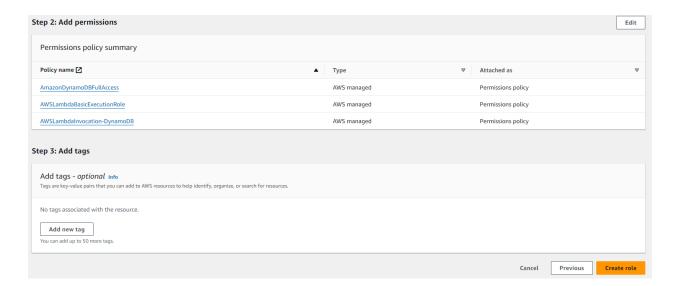
Building a Serverless Data Pipeline: Lambda, DynamoDB, and CloudWatch Integration

The objective of this process is to create a serverless architecture that retrieves data via API Gateway, processes it using Lambda, and stores it in DynamoDB. By leveraging CloudWatch for monitoring and scheduling, we ensure efficient data flow and reliable execution.

Step 1: Create IAM role Role Name: admin-lamba-role

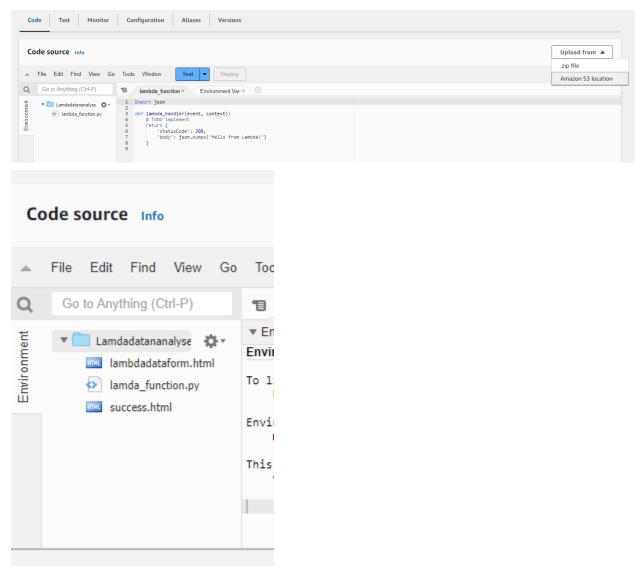


Step 2: Lambda

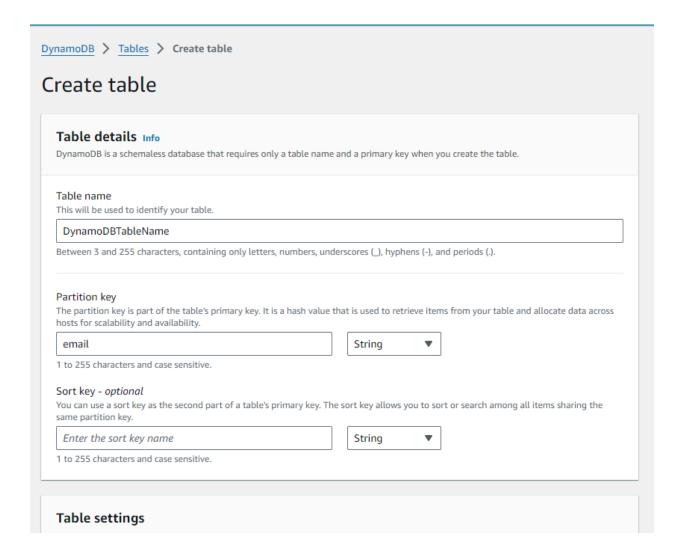
Lambda Name: Lamdadatananalyserdemofunction

Function name Enter a name that describes the purpose of your function.
Lamdadatananalyserdemofunction
Use only letters, numbers, hyphens, or underscores with no spaces.
Runtime Info Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.
Python 3.8 ▼ C
Architecture Info Choose the instruction set architecture you want for your function code.
• x86_64
O arm64
Permissions Info By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this
default role later when adding triggers.
▼ Change default execution role
Execution role Chases a role that defines the permissions of your function. To create a system role, so to the IAM species [7]
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console . Create a new role with basic Lambda permissions
Use an existing role
Create a new role from AWS policy templates
Existing role Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amaz CloudWatch Logs.
admin-lambda-role ▼ C
View the admin-lambda-role role 🛂 on the IAM console.
► Advanced settings

Step 3: Upload Zip file containing contactus.html, python code and success.html to lambda

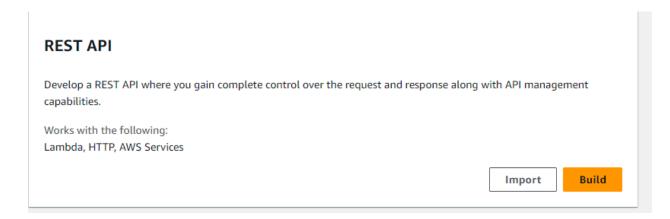


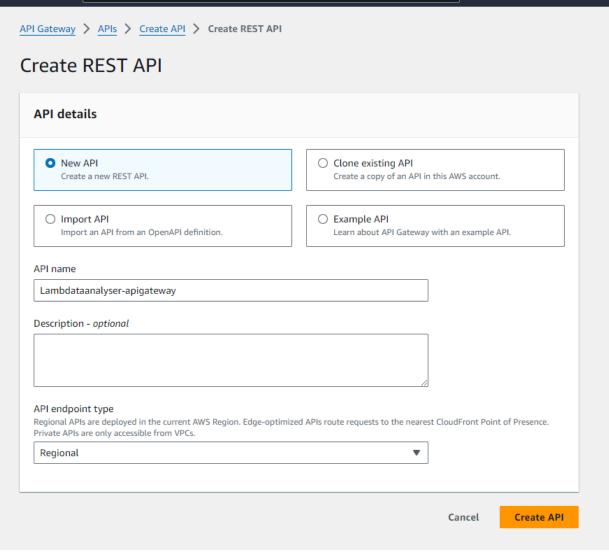
Step 4 : Create DynamoDB TableTable Name: DynamoDBTableName

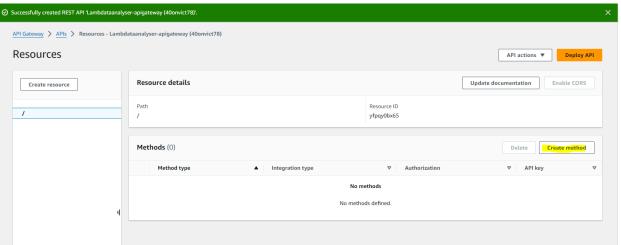


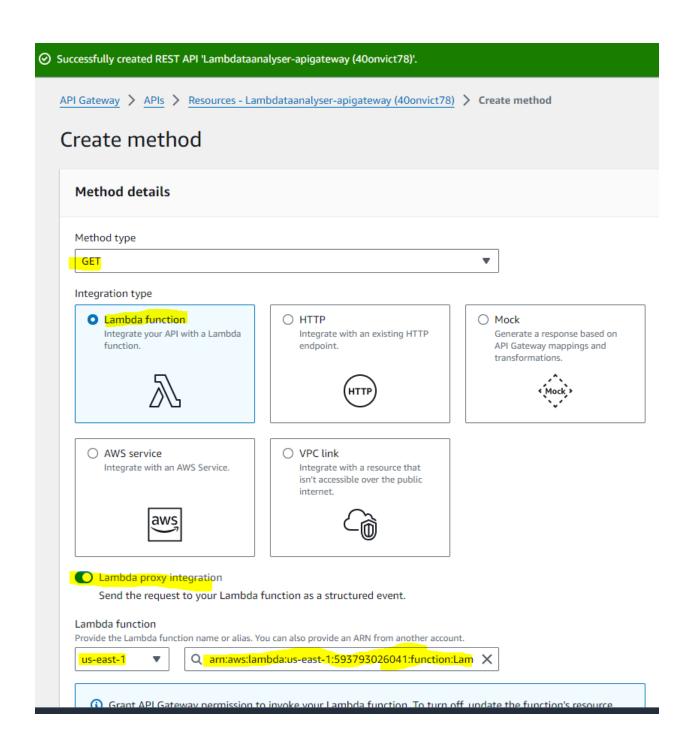
Step 5: Create Rest API for GET and POST

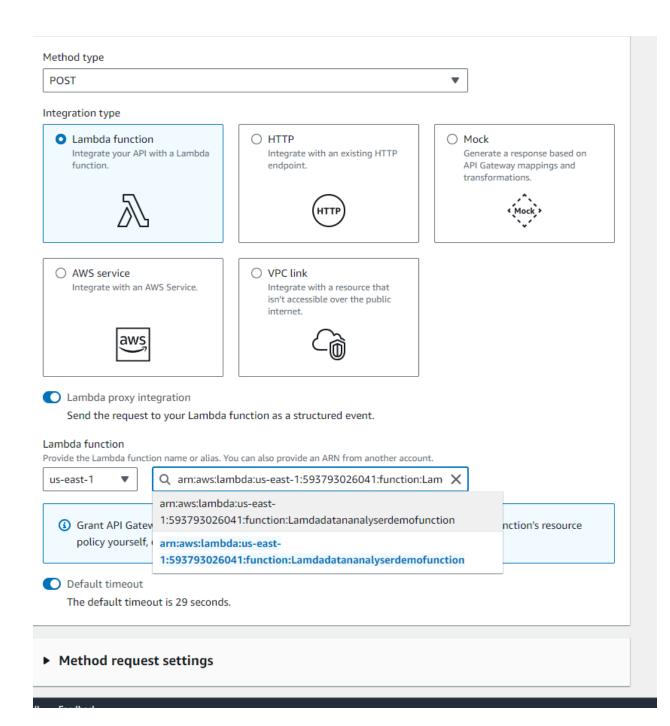
Api name:Lambdataanalyser-apigateway





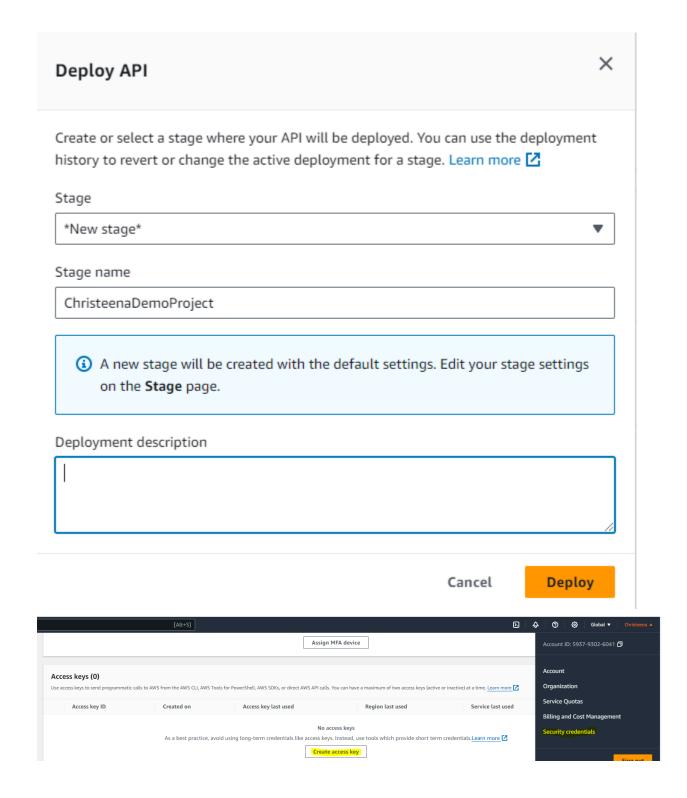


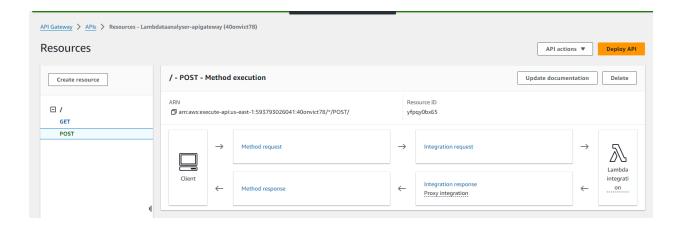




Step 6: Click on deploy api

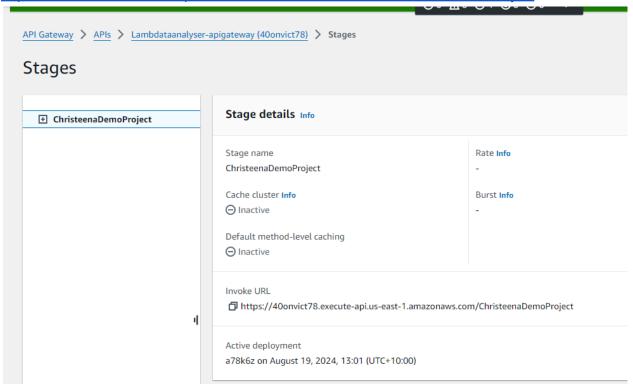
Create a new stage ChristeenaDemoProject





Step 7: Copy Invoke url

https://40onvict78.execute-api.us-east-1.amazonaws.com/ChristeenaDemoProject



Step 7: Cloudwatch - Create Rules

Rule name : Schedulerdemo Schedule for required time

Target -lambda and select our Lambda function

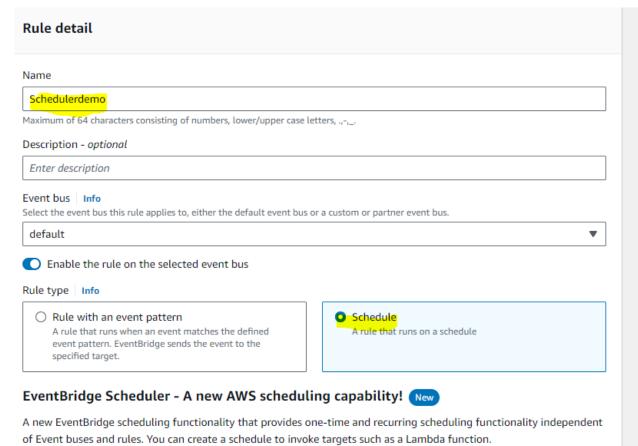
Buses

Event buses

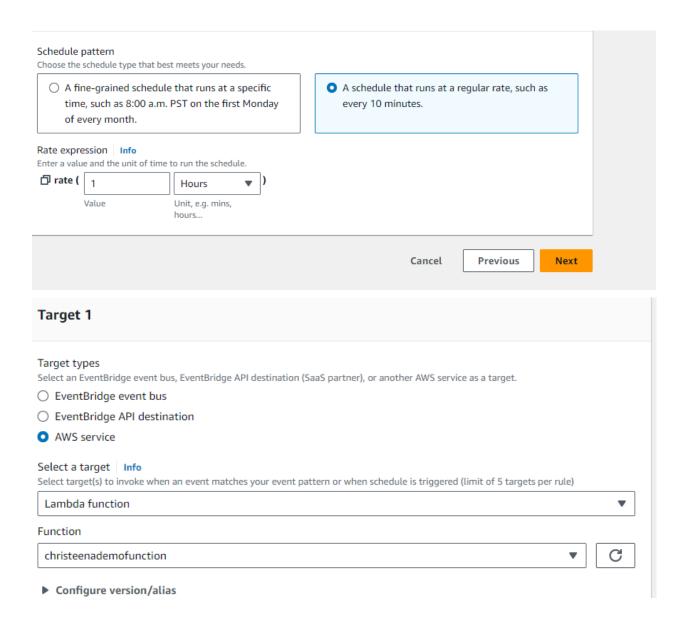
Rules

Global endpoints

Archives



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Vsc

Install aws toolkit

