Overview

API or Application Programming Interface is like a messenger that lets two different programs to talk to each other. For example, assume you are at a restaurant, you sit at a table and order food from a waiter, who takes your requests to the cook and brings back your meal.

So, in the above case waiter is like an API which communicates with the system without needing to know how the kitchen works.

Project Details

- 1. Create an API Gateway
- 2. Build API Gateway with Lambda Integration

Section 1: Create an API Gateway

- 1. Login into AWS Console
- 2. Click on Create API
- 3. Click on REST API
- 4. Click on Build
- 5. Ignore the pop-up
- 6. Select New API
- 7. Enter API Name
- 8. Click on Create API
- 9. Click the APIs under API Gateway and the API is created
- 10. Screenshots Refer Appendix

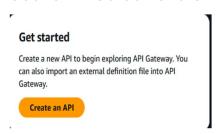
Section 2: Build API Gateway with Lambda Integration

- 1. Login into AWS Console
- 2. Navigate to AWS Lambda and click on Create a Function
- 3. Select Author from scratch
- 4. Provide a function name
- 5. Select runtime as python
- 6. Click on Create a New Role from Aws policy templates
- 7. Provide a role name
- 8. Select basic lambda@edge permissions Minimum Permissions
- 9. The role allows or grants permissions to execute and access resources it might need, like reading from S3 or writing to logs
- 10. Click on Create Funtion

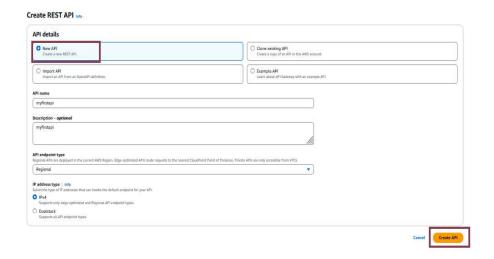
- 11. Once the function is created, follow the steps as in section 1 Create an API
- 12. Click on Create an API
- 13. Click on REST API Build
- 14. Click on New API
- 15. Provide a API Name and Click on Create API
- 16. Now create a resource Refer Screen shots
- 17. Click on Resources and Click on Create Resource
- 18. Provide the resource name myfirstapi
- 19. Click on create resource
- 20. After the resource has been created click on Create Method
- 21. Select Method Type as GET
- 22. Select Integration Type as Lambda Function
- 23. Under LambdaFunction Select the Region and the ARN or Select from the Drop Down
- 24. Click on Create Method
- 25. Click on Deploy the API
- 26. Select the Stage Name as New Stage
- 27. Provide a Stage Name
- 28. Click on Deploy
- 29. Copy the Invoke URL as shown and paste it in the browser
- 30. At the end add / and type myfirstapi and enter
- 31. You will get a Get request

Appendix

Section 1: Screen Shots

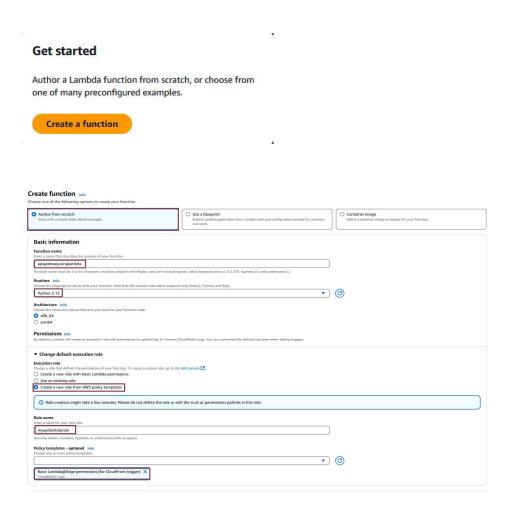








Section 2: Screen Shots



Section 2A: API Gateway Creation

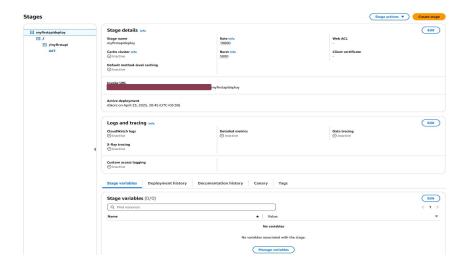


Create resource









Q https://879r1xhiq5.execute-api.us-east-1.amazonaws.com/myfirstapideploy/myfirstapi



{"statusCode": 200, "body": "\"Hello from Lambda!\""}