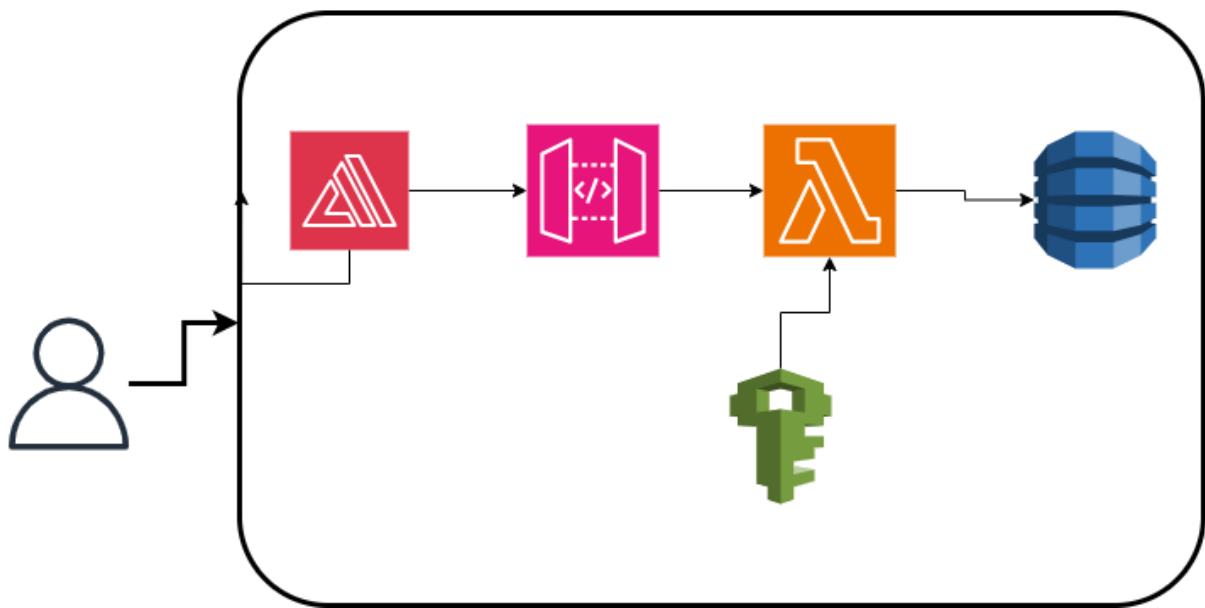
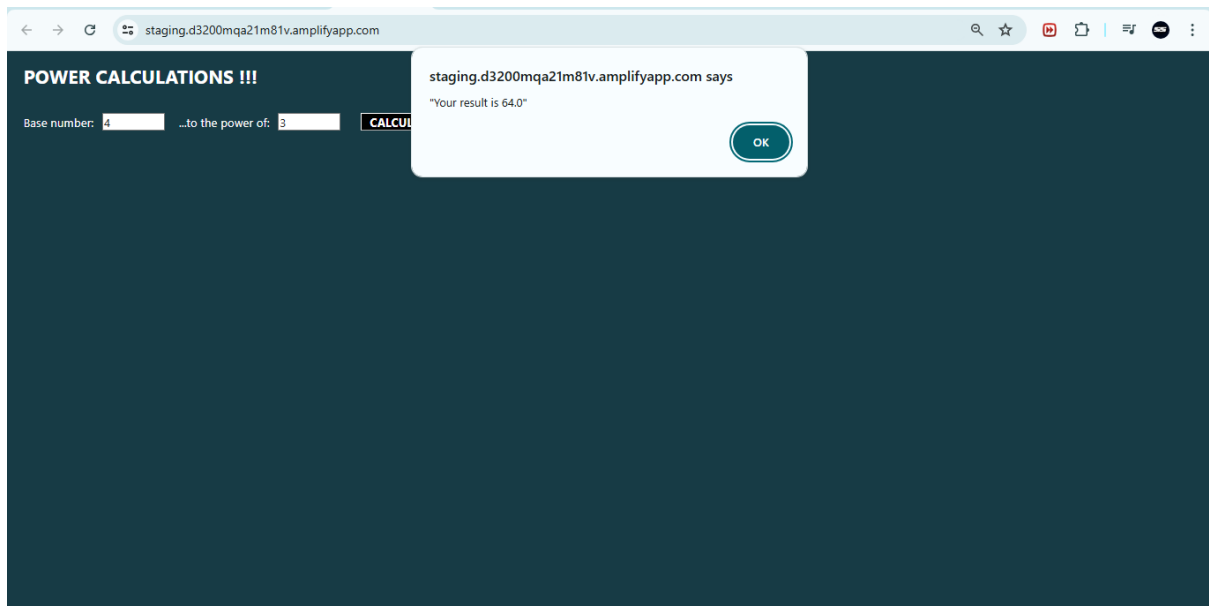


◆ Architecture Diagram

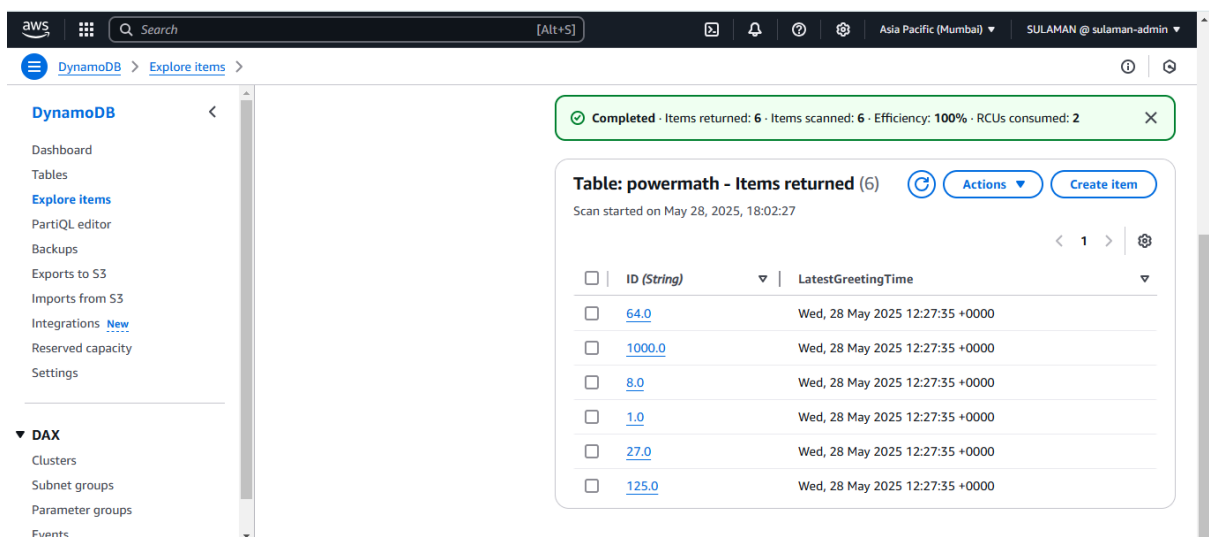
# Architecture



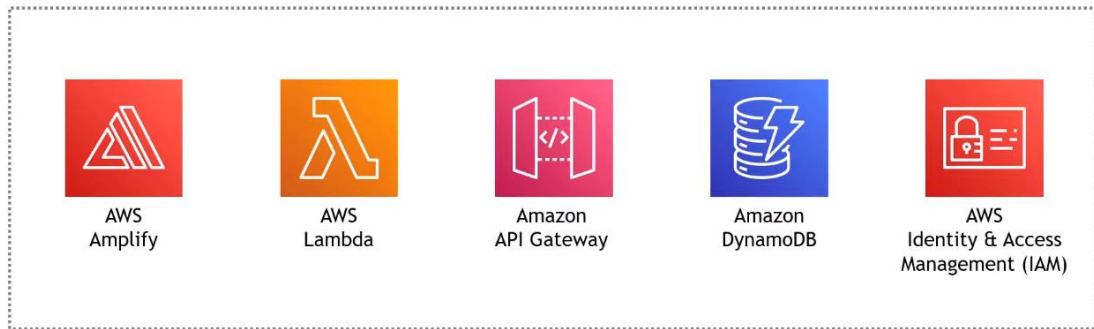
# ◆ RESULT



## Record Is Stored in The Dynamo Db Table

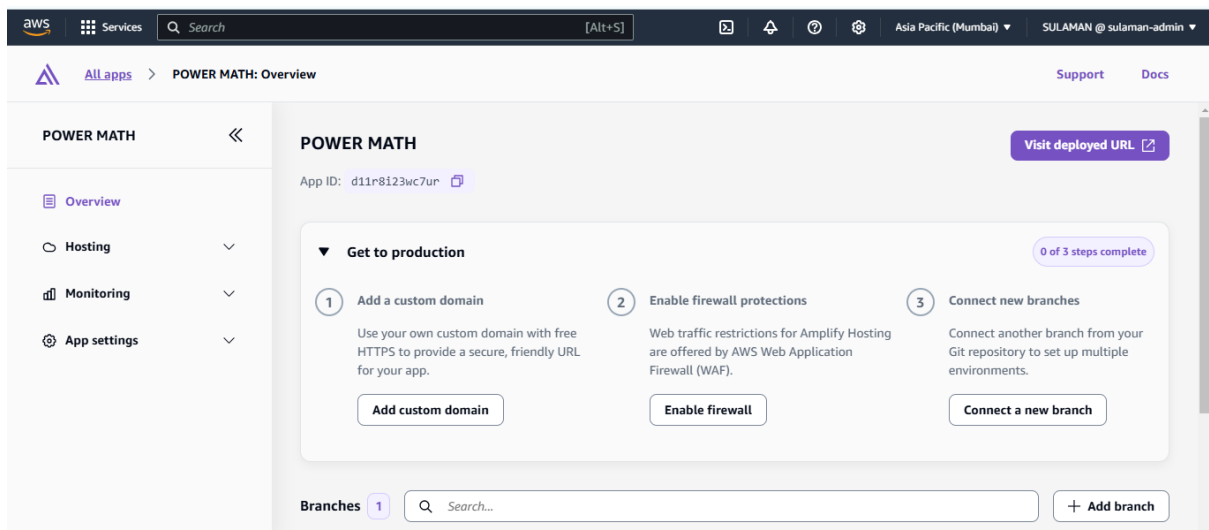


## Services We'll be Using

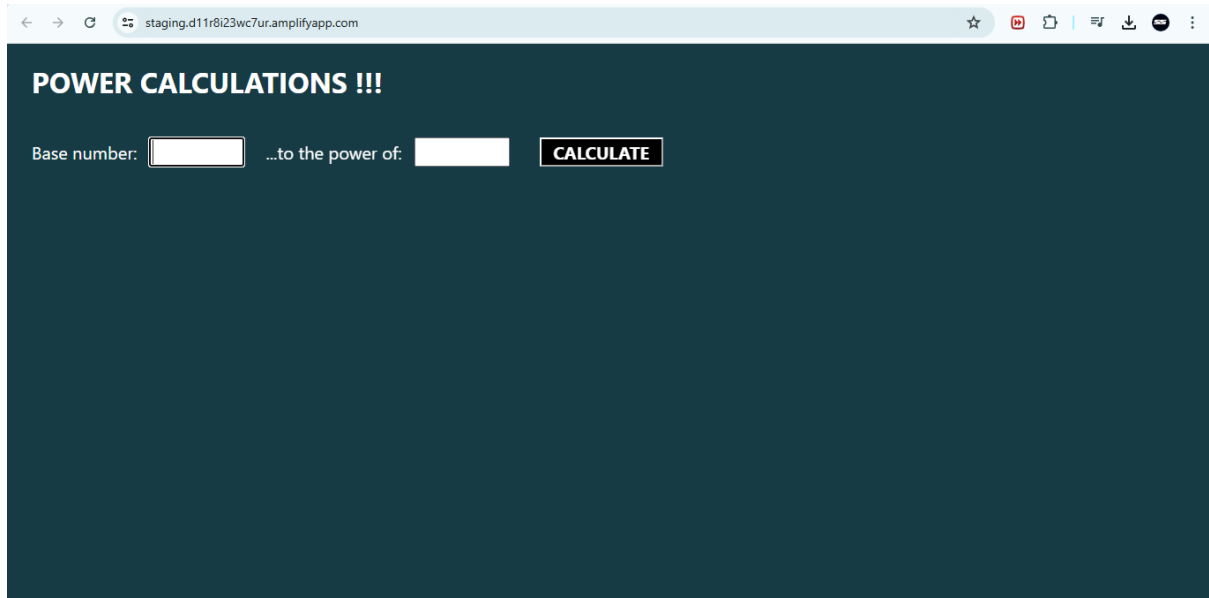


## ◆ Aws Amplify

### 1. Use amplify to host sites

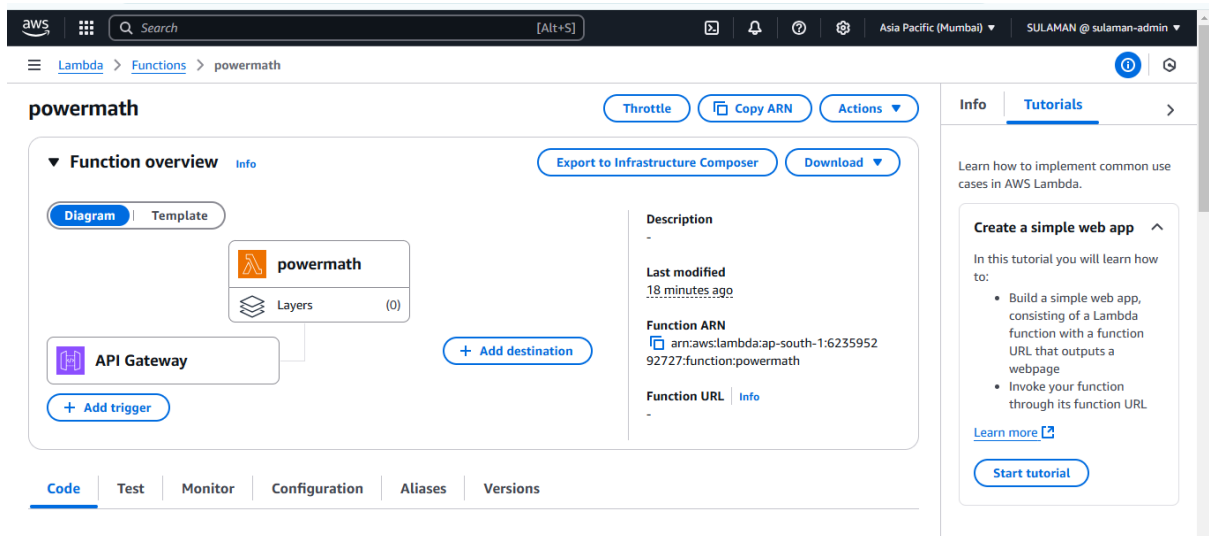


Site deployed!!!!



## ◆ Aws Lambda Functions

2. Created a lambda function with python and return json object as output



## Lambda Execution

✓ Executing function: succeeded ([logs](#))

▼ Details

```
{
  "statusCode": 200,
  "body": "\"Your result is 8.0\""
}
```

### Summary

<b>Code SHA-256</b> HAPq9EReJVEC5gLavtc/gyd5vZtd9eiUGF932t0jBxY=	<b>Execution time</b> 22 minutes ago
<b>Function version</b> \$LATEST	<b>Request ID</b> 6c9d2123-53a7-41a3-a8c7-5a3bd89141e3
<b>Duration</b> 1.95 ms	<b>Billed duration</b> 2 ms
<b>Resources configured</b> 128 MB	<b>Max memory used</b> 34 MB
<b>Init duration</b> 99.13 ms	

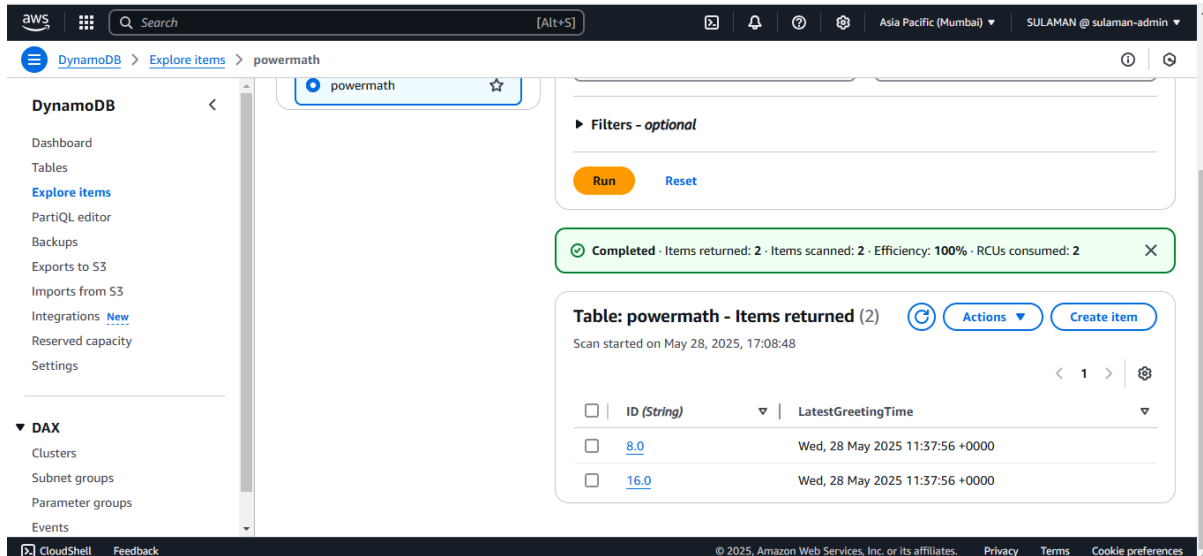
## ◆ Aws API Gateway

3. Created a REST API & Post method to forward the input to lambda and send a response

The screenshot displays the AWS API Gateway console interface. On the left, a navigation pane shows the 'API: POWER MATH' resource with a 'Resources' sub-section. The main area is titled 'Resources' and shows a tree structure with a root resource '/' and a child resource '/my-re' with a 'POST' method. The 'POST' method is selected, and the 'OPTIONS' tab is visible. The 'POST' method configuration is shown, including the ARN of the Lambda function: 'arn:aws:execute-api:south-1:623595292727:qss5lckxh/\*/\*POST/'. The 'Integration request' and 'Method response' tabs are visible. The 'Integration request' tab shows a diagram of the integration flow: Client → Method request → Integration request → Lambda integration. The 'Method response' tab shows the response structure. The 'Test' button is highlighted at the bottom right.

# ◆ Aws Dynamo DB

4. Created a Dynamo DB & configure IAM Permissions of lambda to add Record in Dynamo DB



The screenshot shows the AWS DynamoDB console interface. The left sidebar contains navigation links for DynamoDB (Dashboard, Tables, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Integrations, Reserved capacity, Settings) and DAX (Clusters, Subnet groups, Parameter groups, Events). The main content area displays the 'powermath' table. A 'Filters - optional' section has 'Run' and 'Reset' buttons. A green status bar indicates 'Completed - Items returned: 2 - Items scanned: 2 - Efficiency: 100% - RCUs consumed: 2'. Below this, a table titled 'Table: powermath - Items returned (2)' shows the scan results. The table has two columns: 'ID (String)' and 'LatestGreetingTime'. The scan started on May 28, 2025, at 17:08:48.

ID (String)	LatestGreetingTime
8.0	Wed, 28 May 2025 11:37:56 +0000
16.0	Wed, 28 May 2025 11:37:56 +0000