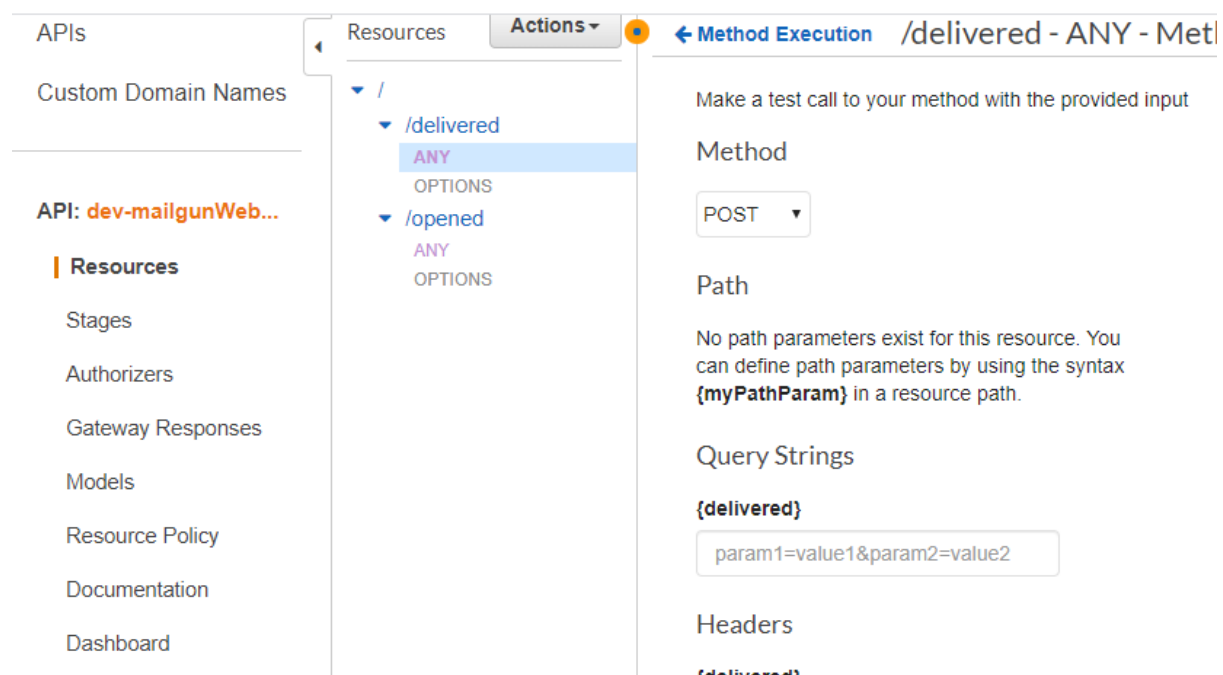# Solution To The Code Challenge:

I have deployed the entire infrastructure on a Serverless framework, and below is the test activity I followed to complete the task.

1: Configured webhook on mail gun with API

2: Configured API gateway to listen to Webhook.

3: Received Events from WebHook are configured as different resources in API

4: Dynamo DB insertion with messageId as key

mailgunWebhook-dev   Close

| Overview | Items | Metrics | Alarms | Capacity | Indexes | Global Tables | Backups | More ⌄ |

Create item   Actions ⌄

Scan: [Table] mailgunWebhook-dev: messageId ⌃   Viewing 1 to 1 iter

Scan ▾   [Table] mailgunWebhook-dev: messageId   ▾   ⌃

⊕ Add filter

Start search

☐   **messageId** ⓘ   ▲

☐   20130503182626.18666.16540@sandbox6a91aaa2a5574971802c209911fad

5: Published a message to SNS topic which is being subscribed to an email ID(for test purpose).

Message has been delivered ⤳ Inbox ✕

ReCeeve <no-reply@sns.amazonaws.com>   4:16 PM (20 minutes ago)
to me ▾

{
 "signature": {
  "timestamp": "1582365929",
  "token": "47a160c0a2d032dcafd15d1bbcfd3aa8d3a4e9a5568dcee0dd",
  "signature": "581f2cedc44ad11c648a88b105ec9065b25363c2284e4036628fedaf79dcafe4"
 },
 "event-data": {
  "tags": [
   "my_tag_1",
   "my_tag_2"
  ],
  "timestamp": 1521472262.908181,
  "storage": {
   "url": "https://se.api.mailgun.net/v3/domains/sandbox6a91aaa2a5574971802c209911fad500.mailgun.org/messages/message_key",
   "key": "message_key"
  },
  "envelope": {
   "sending-ip": "209.61.154.250",
   "sender": "bob@sandbox6a91aaa2a5574971802c209911fad500.mailgun.org",
   "transport": "smtp",