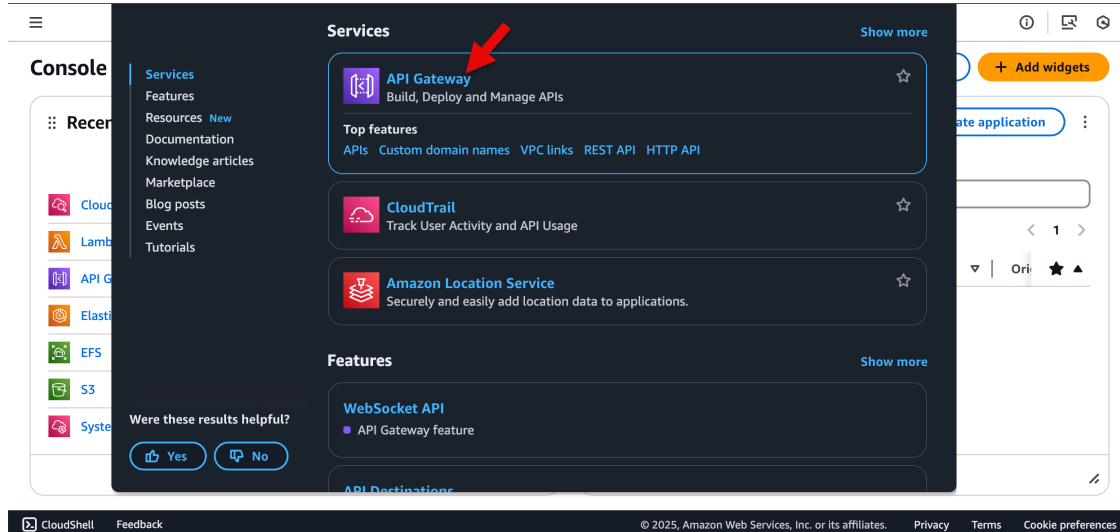


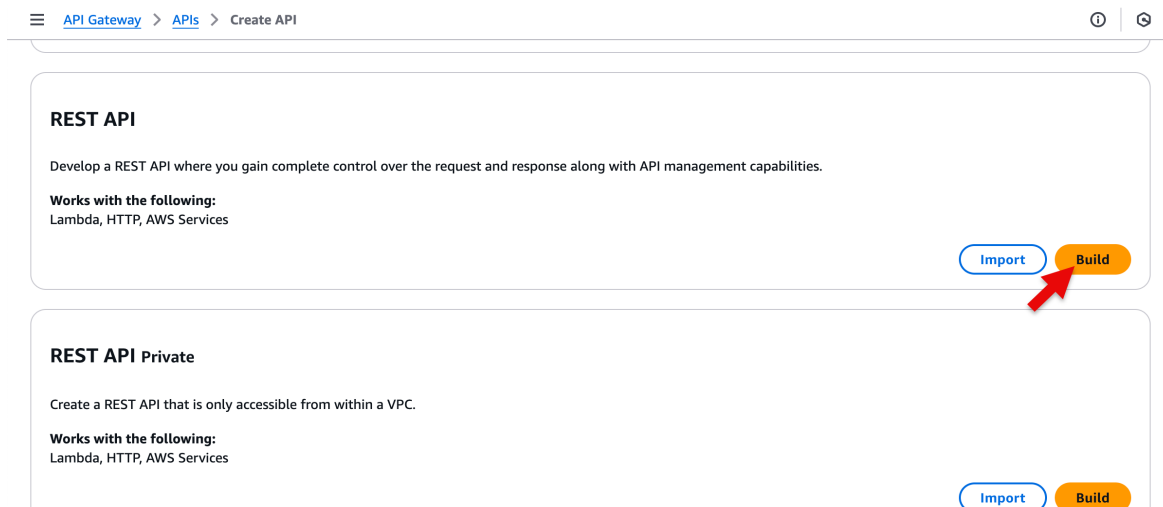
## ANASIEZE IKENNA – CLOUD ENGINEER

### Task 1 - Create an API Gateway with a Mock Integration

- Open the **AWS Management Console** and navigate to **API Gateway**



- Click **Build** under **REST API**.



- Set the Resource name to message, and click **Create resource**. This will automatically set the resource path to /message.

#### Create resource

**Resource details**  
☒ Proxy resource [Info](#)  
Proxy resources handle requests to all sub-resources. To create a proxy resource use a path parameter that ends with a plus sign, for example {proxy+}.

Resource path  
/

▼

Resource name  
message


☐ CORS (Cross Origin Resource Sharing) [Info](#)  
Create an OPTIONS method that allows all origins, all methods, and several common headers.


[Cancel](#) [Create resource](#)


- Set **Integration type** to **Mock** and click **Create method**.


#### Create method


**Method details**  
Method type  
GET

☐ Lambda function  
Integrate your API with a Lambda function.  


☐ HTTP  
Integrate with an existing HTTP endpoint.  


☒ Mock  
Generate a response based on API Gateway mappings and transformations.  


☐ AWS service  
Integrate with an AWS Service.  


☐ VPC link  
Integrate with a resource that isn't accessible over the public internet.  


► Method request settings

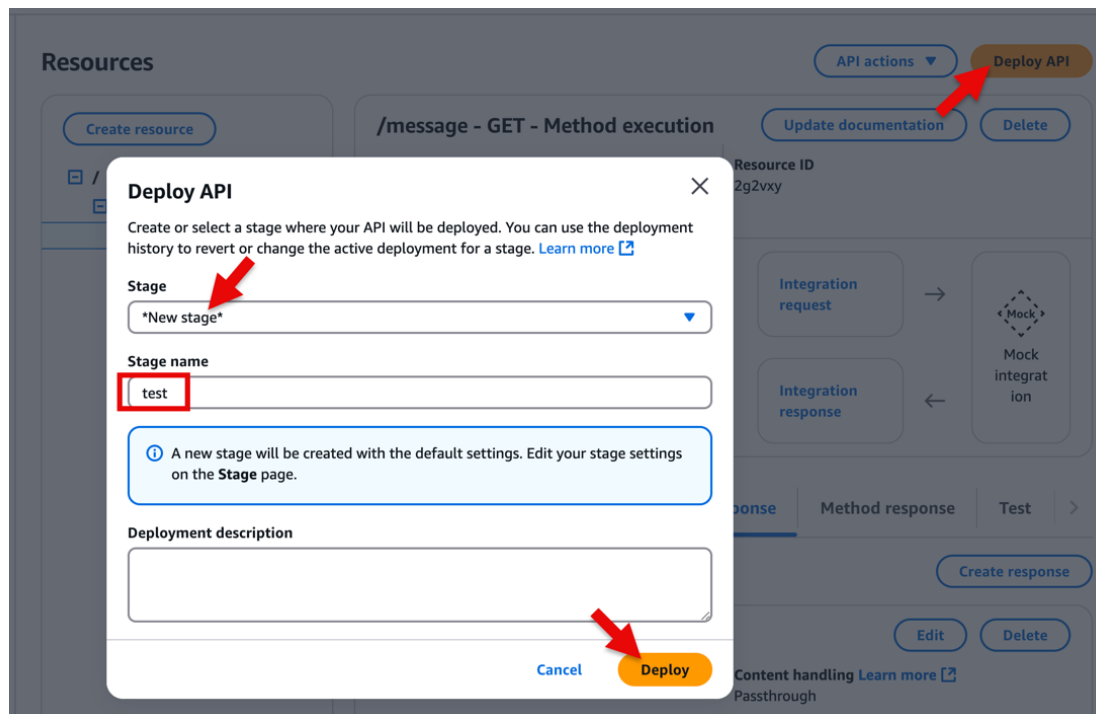
► URL query string parameters

► HTTP request headers

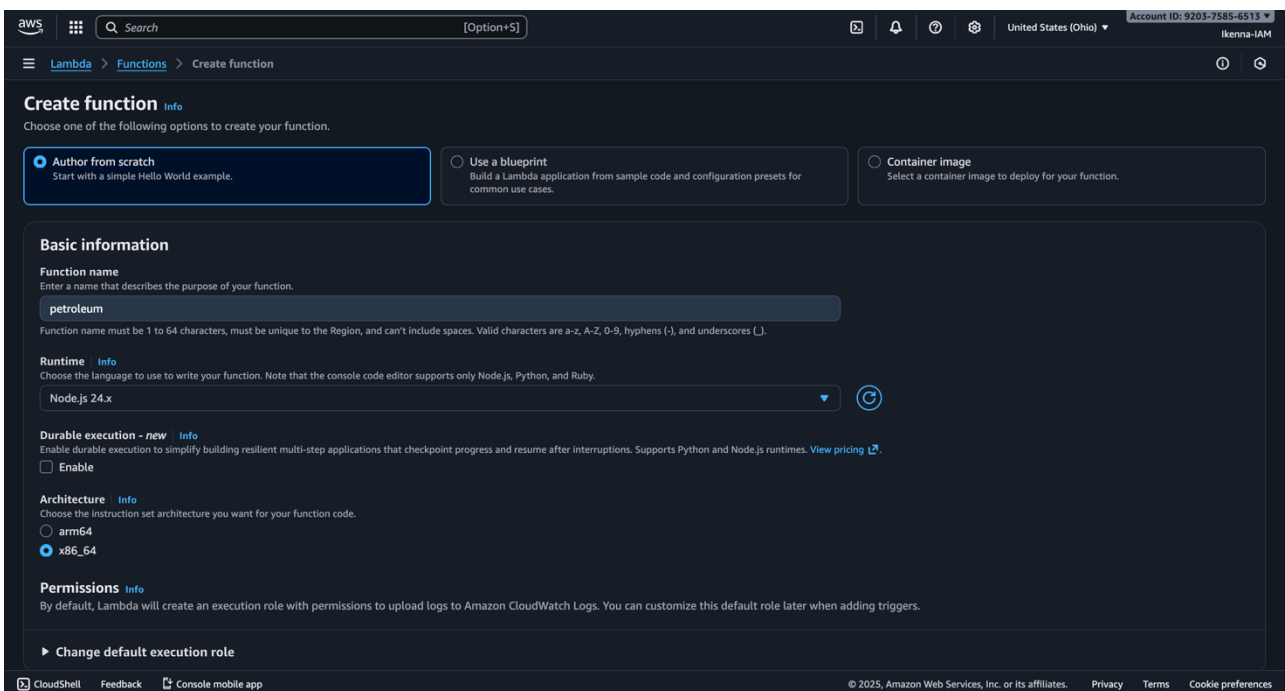
► Request body

[Cancel](#) [Create method](#)

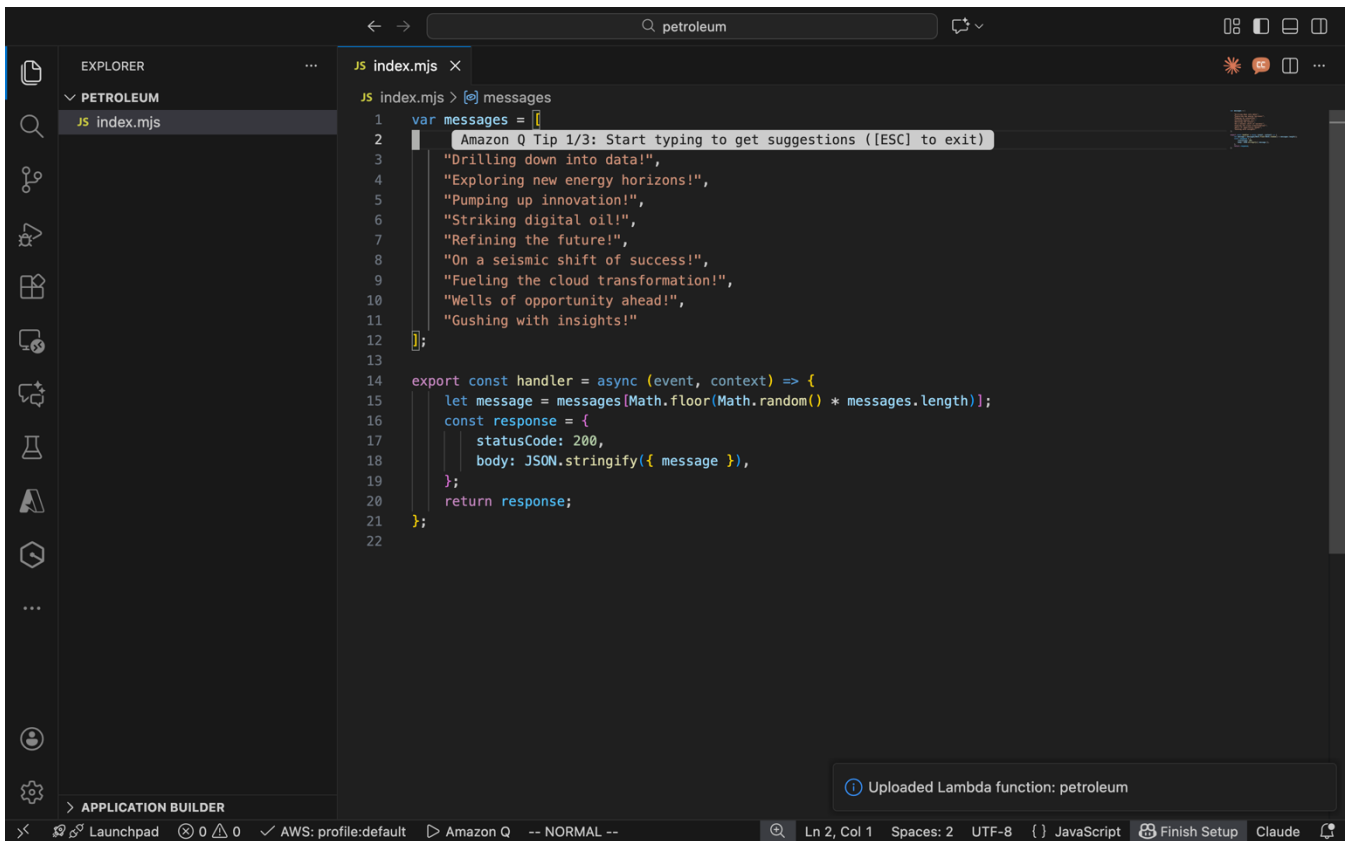
- Click **Deploy API** button and choose to create a **New Stage**. Name the stage as test. Click **Deploy**.



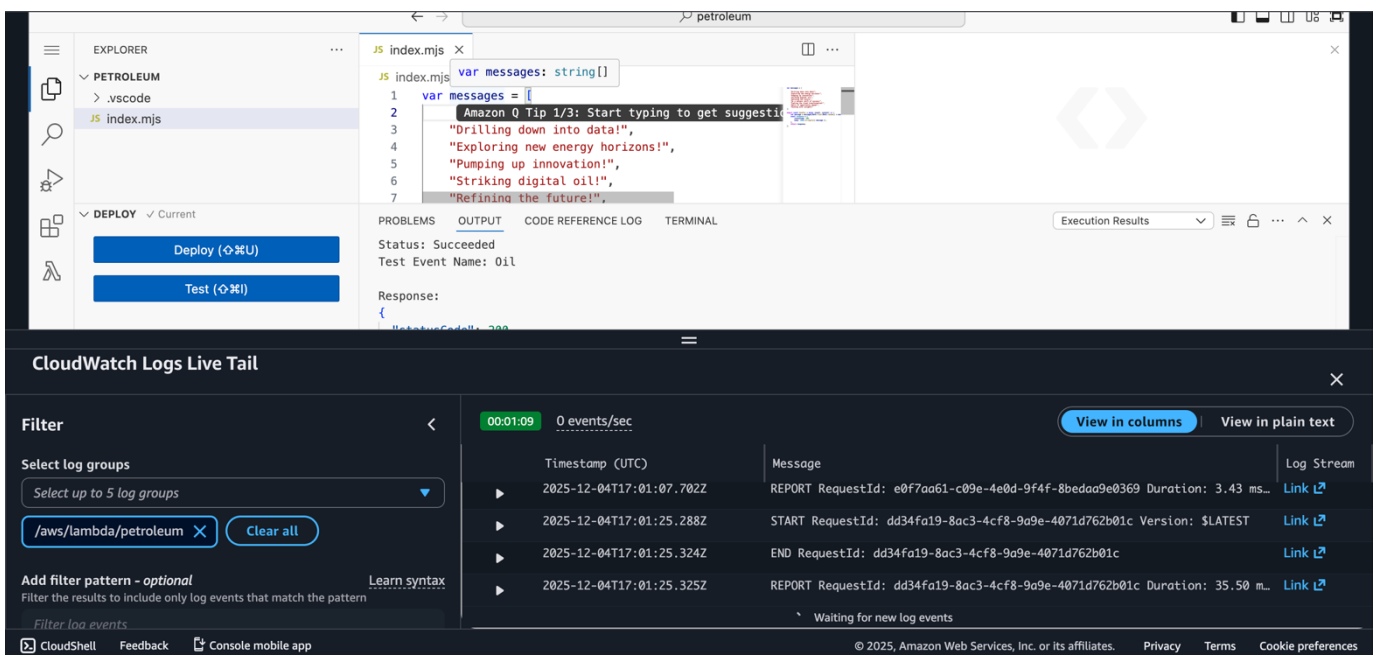
## Task 2 - Create an AWS Lambda Function



- Replace the default **CODE** & deploy

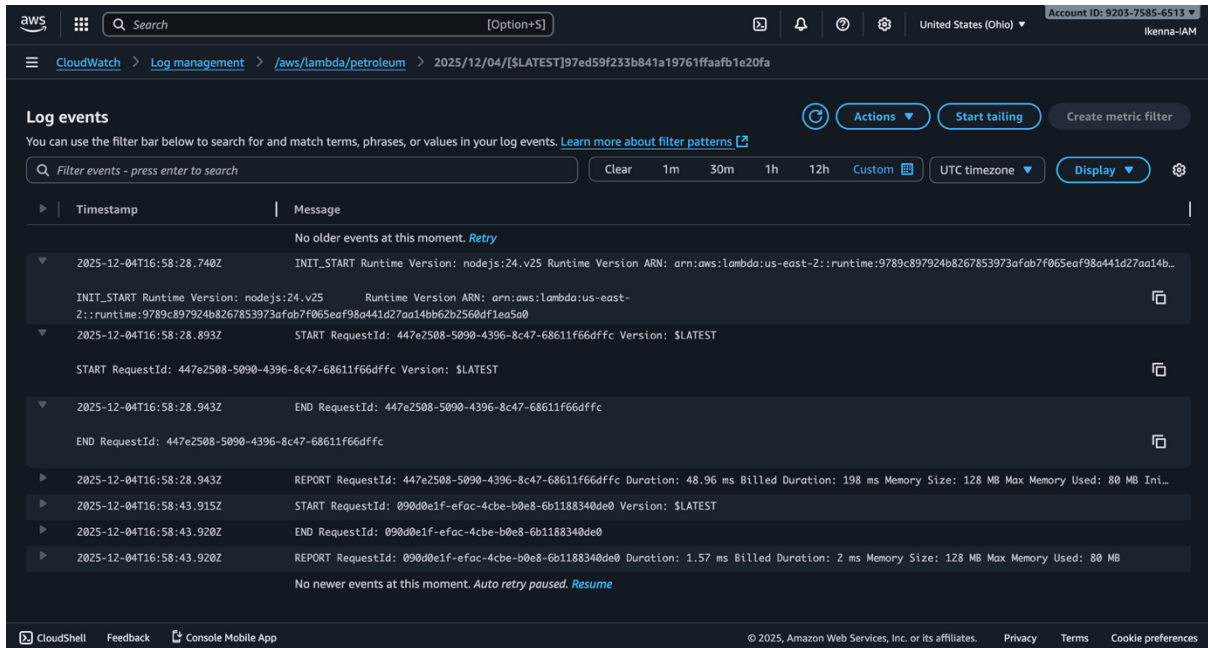


- Click **Test** to execute the function with test event JSON as input.



## Task 3 - Set up CloudWatch Live Tail

- On the **Code** tab, choose **Run and Debug**



## Task 4 - Integrate API Gateway with AWS Lambda

### Edit integration request

**Method details**

**Integration type**

☒ **Lambda function**  
Integrate your API with a Lambda function.

☐ **HTTP**  
Integrate with an existing HTTP endpoint.

☐ **Mock**  
Generate a response based on API Gateway mappings and transformations.

☐ **AWS service**  
Integrate with an AWS Service.

☐ **VPC link**  
Integrate with a resource that isn't accessible over the public internet.

**Different integration type**  
If you switch the integration type, you will overwrite the existing configuration. This action cannot be undone.

☒ **Lambda proxy integration**  
Send the request to your Lambda function as a structured event.

- Visit the **Invoke URL** of the GET method, and test the API in a web browser & Refresh multiple times to see a **different message** each time.

```
Pretty print
{
  "message": "Exploring new energy horizons!"
}
```

```
hsw6gxdk8.execute-api.us-east-2.amazonaws.com/Test/message
Pretty print
{
  "message": "On a seismic shift of success!"
}
```

```
hsw6gxdk8.execute-api.us-east-2.amazonaws.com/Test/message
Pretty print
{
  "message": "Exploring new energy horizons!"
}
```