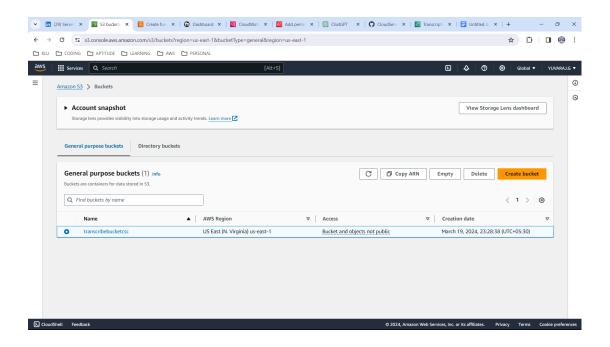
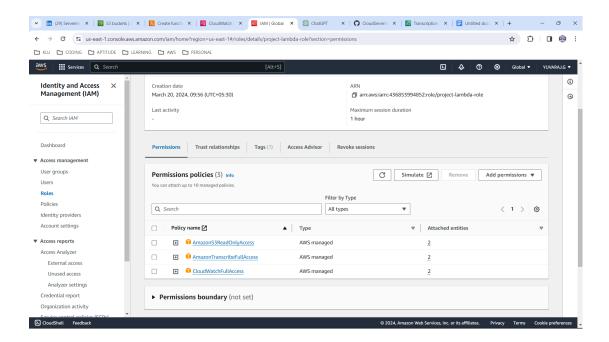
Serverless Speech-to-Text with AWS Transcribe and S3 Event Trigger using Lambda and CloudWatch

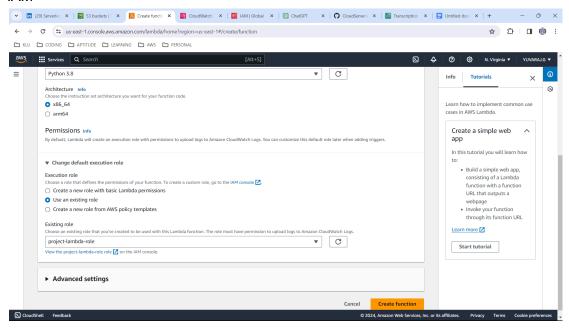
Step 1: Create a S3 bucket in Amazon S3



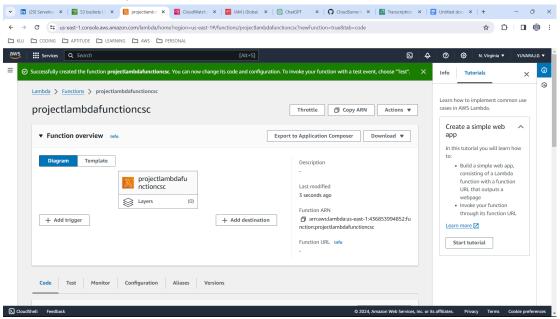
Step 2: Create a role for lambda access the s3 bucket , cloudwatch logs and Amazon transcribe in lambda



Step 3: Create a lambda function and use exiting role we already created a role in IAM

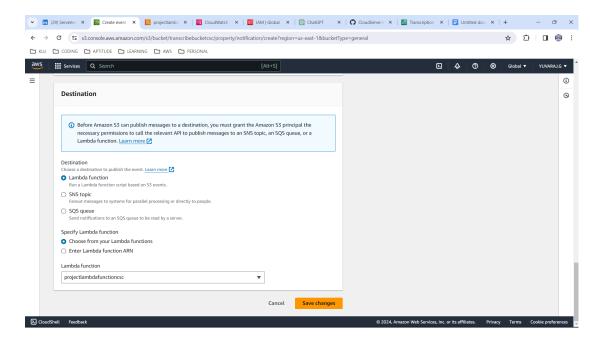


Step 4: Successfully created Lambda function

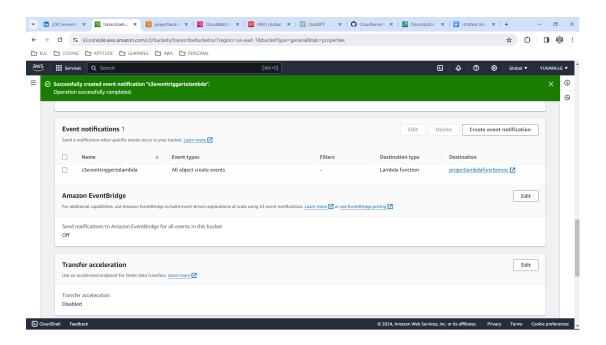


```
import boto3
import uuid
import json
def lambda_handler(event, context):
  print(json.dumps(event))
  record = event['Records'][0]
  s3bucket = record['s3']['bucket']['name']
  s3object = record['s3']['object']['key']
  s3Path = "s3://" + s3bucket + "/" + s3object
  jobName = s3object + '-' + str(uuid.uuid4())
  client = boto3.client('transcribe')
  response = client.start_transcription_job(
    TranscriptionJobName=jobName,
    LanguageCode='en-US',
    MediaFormat='mp4',
    Media={
      'MediaFileUri': s3Path
    }
  )
  print(json.dumps(response, default=str))
  return {
    'TranscriptionJobName':
response['TranscriptionJob']['TranscriptionJobName']
  }
```

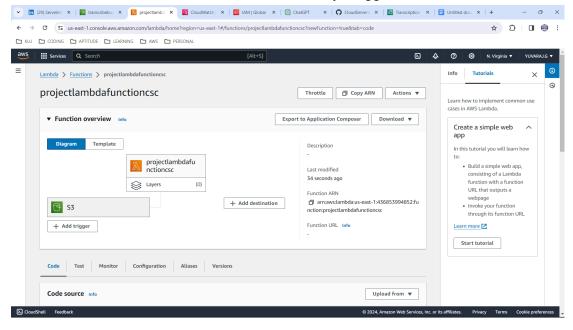
Step 5: After created the lambda function we Trigger s3 into the Lambda function, So we create a Event notification in s3 and specify the lambda function



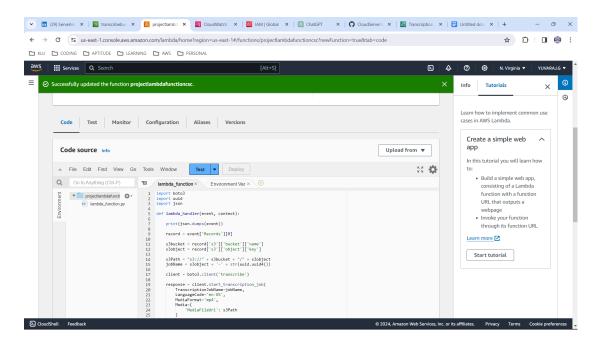
Step 6:Successfully created the event notification in S3



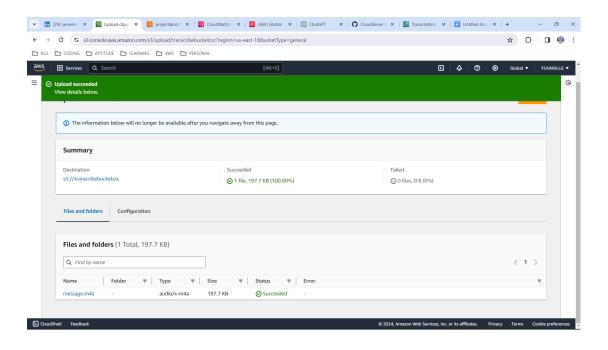
Here in the Lambda function the S3 is Successfully Triggered



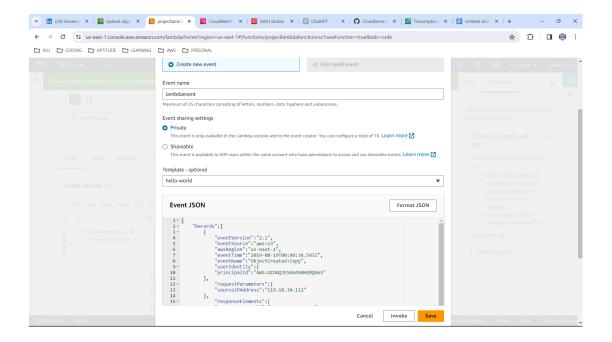
Now paste the code in your lambda function and Deploy it:



Step 7: Upload a audio file in the S3 bucket



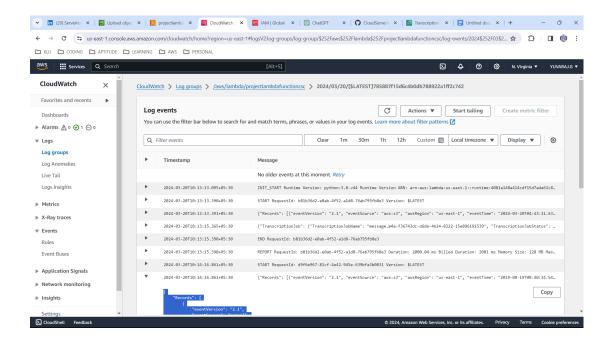
Step 8: Configure an event in lambda and create a new event



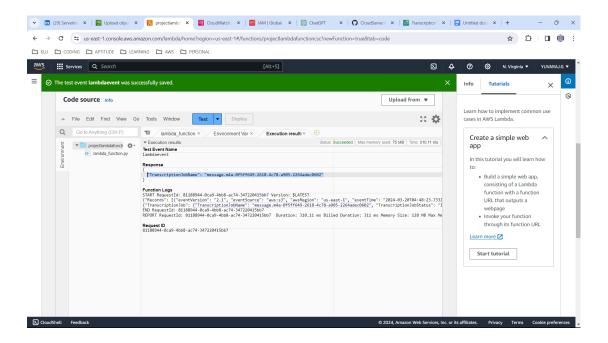
Here the code you upload in your lambda function:

```
{
  "Records":[
      "eventVersion":"2.1".
      "eventSource": "aws:s3",
      "awsRegion":"us-east-1",
      "eventTime": "2019-08-19T00:40:34.543Z",
      "eventName": "ObjectCreated:Copy",
      "userIdentity":{
      "principalld":"AWS:AIDAQJESG6ASNHUMQS6S"
    },
      "requestParameters":{
      "sourcelPAddress":"119.18.34.112"
    },
      "responseElements":{
      "x-amz-request-id":"5E41409CF7FD3202",
"x-amz-id-2":"yiedfPHGd9hXMYDc9C29NBYC2hFmmAASL5Vi7RUpnIvEVgqsX
5IM2inphFVADsKxvYEXVm9BzY="
    },
      "s3":{
        "s3SchemaVersion":"1.0",
"configurationId":"ODE5NGE3M2ItWFiMS00YmI0LThhMGMtNzM0MjMzN2UxO
TE3",
        "bucket":{
          "name":"my-bucket-name",
          "ownerIdentity":{
             "principalld":"A2E7ZEMFS8ZMW"
        "arn": "arn:aws:s3:::my-bucket-name"
        "object":{
          "key": "audio-file.m4a",
          "size":1228405.
          "eTag":"7a6afa78089383ef7bfd343302560a2",
          "sequencer":"005D59F0025D9258B"
        }
      }
   }
 ]
}
```

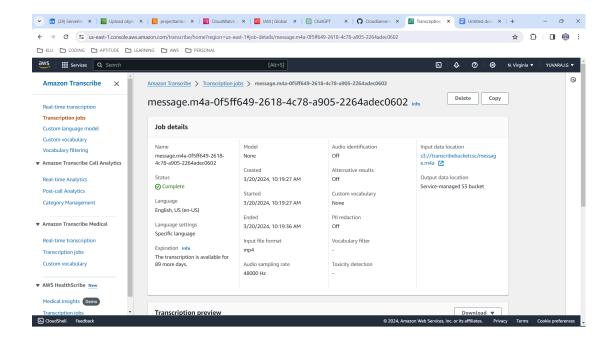
Step 9:Here in CloudWatch log groups you saw the event in your lambda function and update the event in your lambda function:



Step 10: Here you test your code and successfully executed:



Step 11: Here you navigate to Amazon Transcribe you Trancribe jobs are shown:



Finally the Serverless Speech-to-Text with AWS Transcribe and S3 Event Trigger using Lambda and CloudWatch is Executed and saw the text whatever in the audio file;

