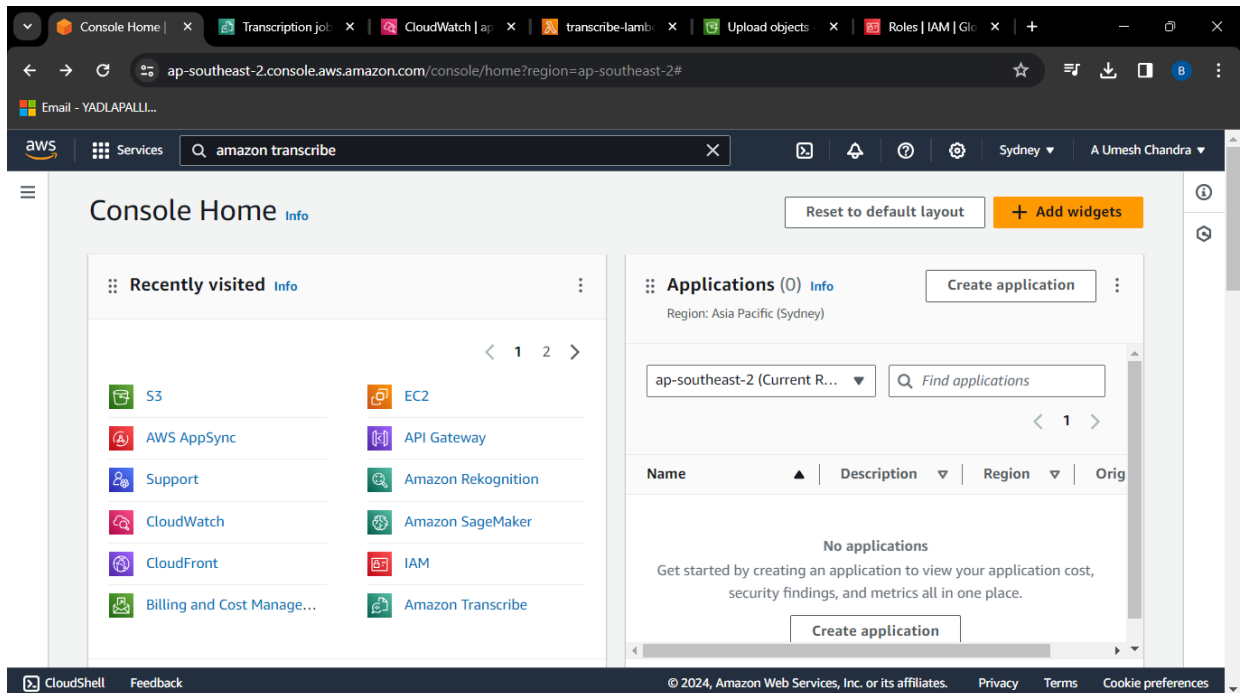


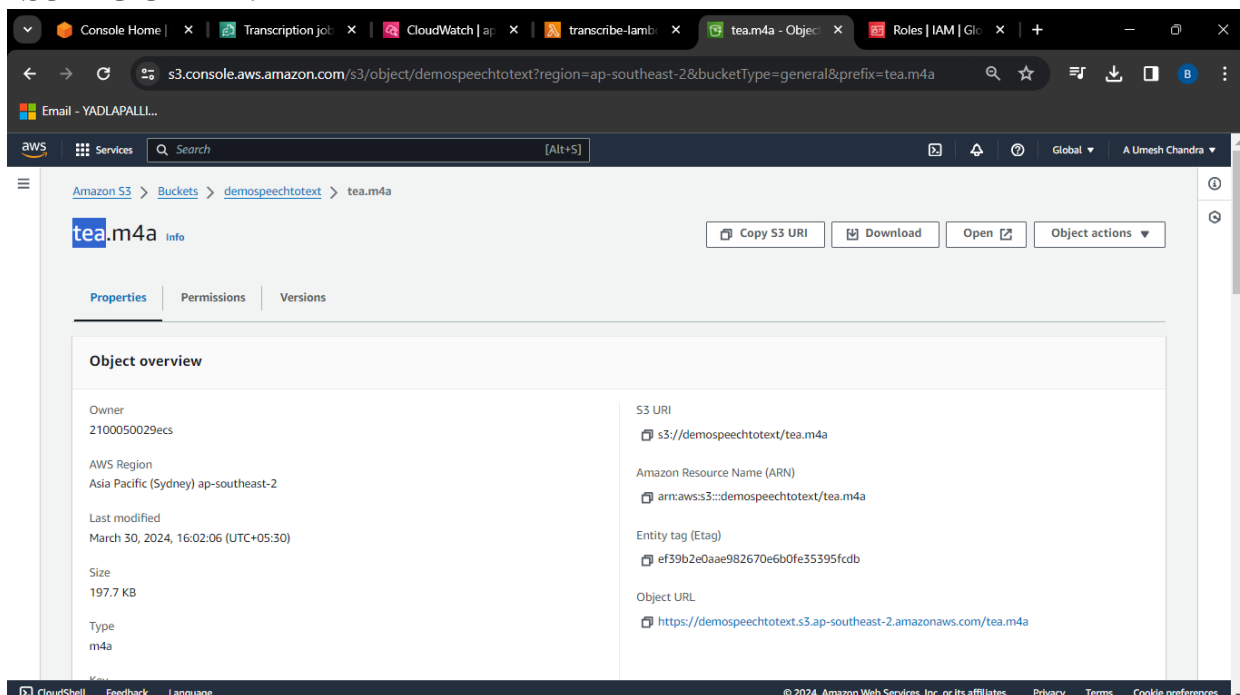
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Speech-To-Text. AWS Lambda function from S3 Event to AWS Transcribe (CloudWatch included)

AWS MANAGEMENT CONSOLE:

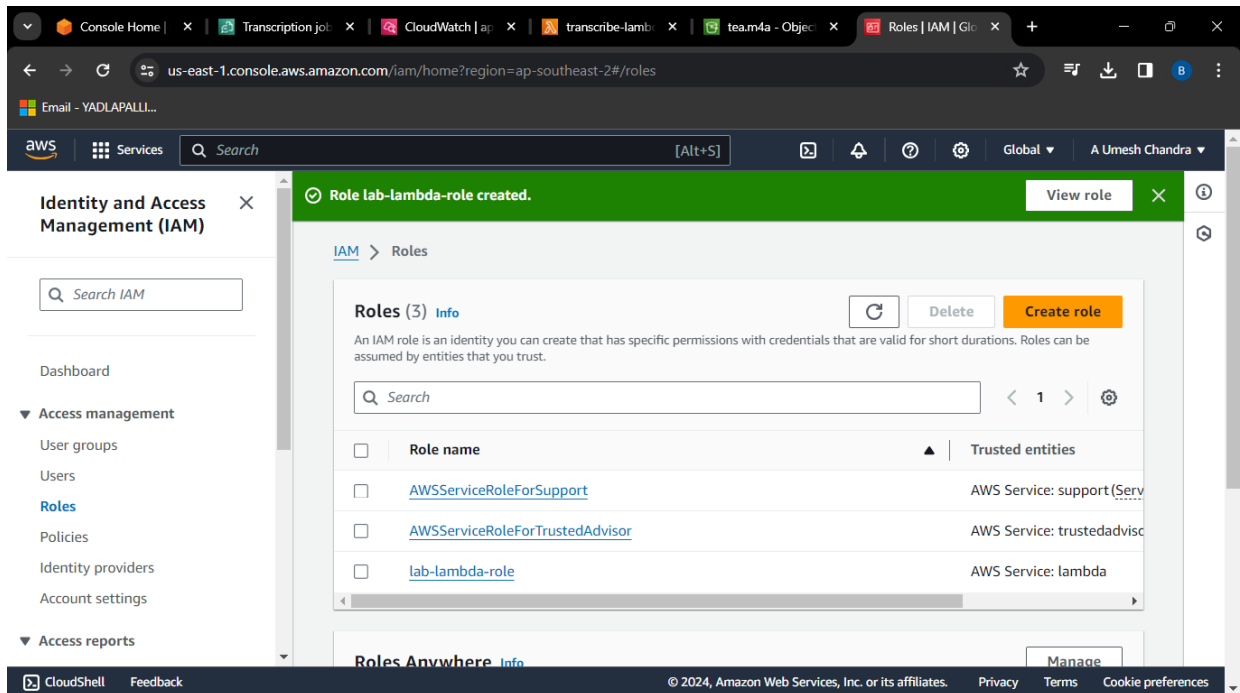


S3 BUCKET:

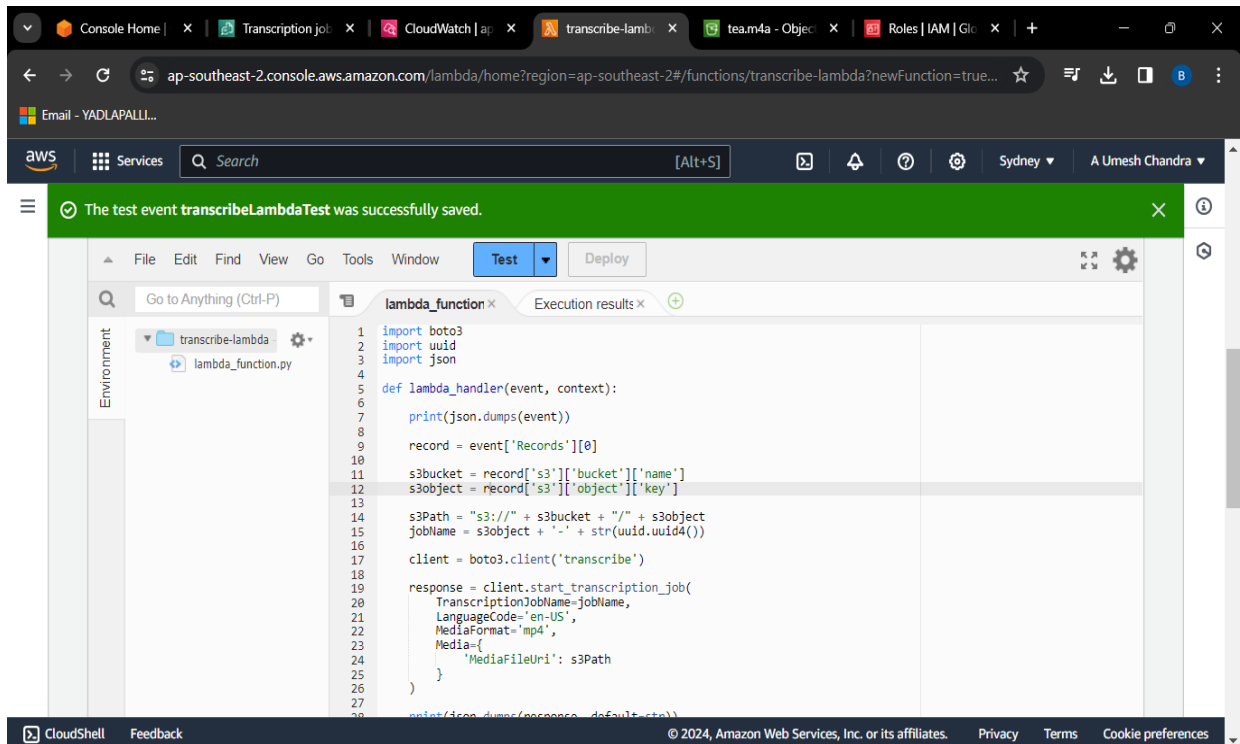


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IAM ROLE:



Lambda function:



Cloud watch:

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CloudWatch console view showing a log record for the event "ObjectCreated:Put" in the "demo-speechtotext" bucket. The record includes details such as eventVersion, eventSource, awsRegion, eventName, eventTime, eventIdentity, requestParameters, responseElements, and s3 details.

```
{
  "Records": [
    {
      "eventVersion": "2.1",
      "eventSource": "aws:s3",
      "awsRegion": "ap-southeast-2",
      "eventTime": "2024-03-30T10:32:05.188Z",
      "eventName": "ObjectCreated:Put",
      "eventIdentity": {
        "principalId": "A21BS4AF7CZ17L"
      },
      "requestParameters": {
        "sourceIPAddress": "106.221.178.195"
      },
      "responseElements": {
        "x-amz-request-id": "9GGXG6AGDPP7CK0R",
        "x-amz-id-2": "zXfFKB2f6jHSXRQIU/c4fNUTpkj1M4rz4tAHUxQ632xOtLXGk0W9tcijsh2zSvNk2TbTfPqZ121V91tIUMkiI9Lt+0AC2"
      },
      "s3": {
        "s3SchemaVersion": "1.0",
        "configurationId": "lambda-kickoff",
        "bucket": {
          "name": "demo-speechtotext",
          "ownerIdentity": {
            "principalId": "A21BS4AF7CZ17L"
          }
        }
      }
    }
  ]
}
```

Amazon transcribe to see output:

Amazon Transcribe console view showing the details of a transcription job. The job is named "tea.m4a-fc05d756-387f-4ceb-a832-11e51b33b608" and is in a "Complete" status. The job details table provides information about the model, audio identification, input/output data locations, and language settings.

Job details			
Name	Model	Audio identification	Input data location
tea.m4a-fc05d756-387f-4ceb-a832-11e51b33b608	None	Off	s3://demo-speechtotext/tea.m4a
Status	Created	Alternative results	Output data location
Complete	3/30/2024, 5:06:17 PM	Off	Service-managed S3 bucket
Language	Started	Custom vocabulary	
English, US (en-US)	3/30/2024, 5:06:17 PM	None	
Language settings	Ended	PII redaction	
	3/30/2024, 5:06:25 PM	Off	

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Console Home

Transcription job

CloudWatch

transcribe-lamb

tea.m4a - Objec

Roles | IAM | Glo

ap-southeast-2.console.aws.amazon.com/transcribe/home?region=ap-southeast-2#job-details/tea.m4a-fc05d756-387f-4ceb-a832-...

Email - YADLAPALLI...

awsServicesSearch[Alt+S]

SydneyA Umesh Chandra

Amazon Transcribe

Get started

Real-time transcription

Transcription jobs

Custom language model

Custom vocabulary

Vocabulary filtering

Amazon Transcribe Call Analytics

Real-time Analytics

Post-call Analytics

Category Management

Amazon Transcribe Medical

Transcription preview

Download

Select download to save a local copy of the transcription.

TextAudio identificationSubtitlesToxicity detection - new

After completing the lab, you should have a cup of tea.

Tags (0)Manage Tags

Key	Value
-----	-------

CloudShellFeedback

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Lambda CODE:

```
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']
    }
```