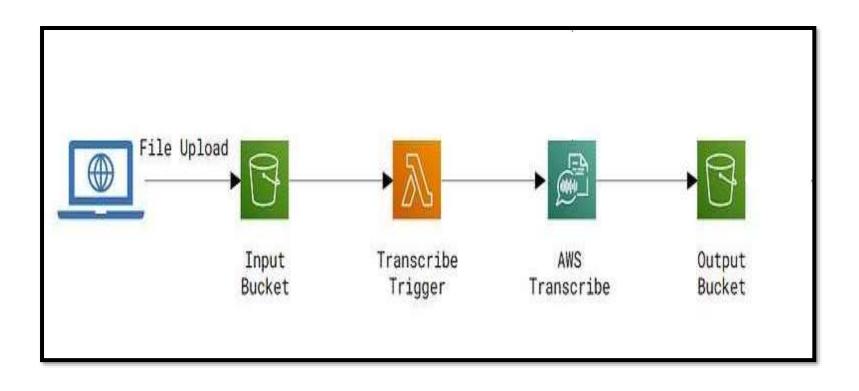
## PROJECT TITLE

Development of a Web Application for Audio Transcription using AWS Transcribe

## WEBSITE NAME

Capture Every Word with Audio Transcripts



#### > LAMBDA CODE

```
import boto3
import uuid
import json
def lambda_handler(event, context):
  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='mp3',
  Media={
    'MediaFileUri': s3Path
  OutputBucketName = "<Output Bucket Name>"
return {
  'TranscriptionJobName': response['TranscriptionJob']['TranscriptionJobName']
```

#### > CUSTOM POLICY

#### In JSON

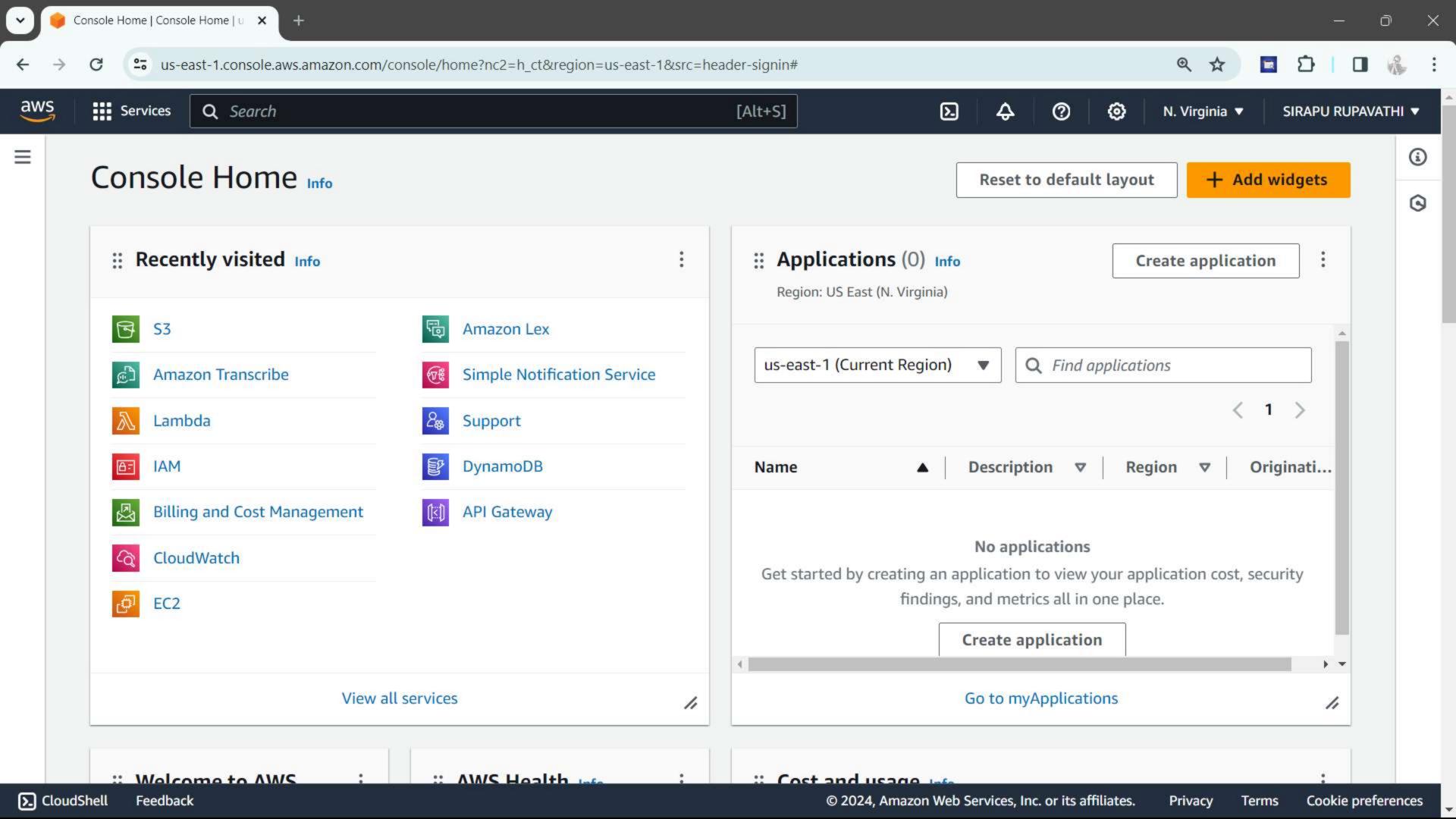
```
"Version": "2012-10-17",
"Statement": [
"Action": [
"s3:PutObject"
"Resource": [
"<outputbucket arn>/*"
"Effect": "Allow"
},
"Action": [
"s3:ListBucket"
"Resource": [
"<outputbucket arn>"
"Effect": "Allow"
```

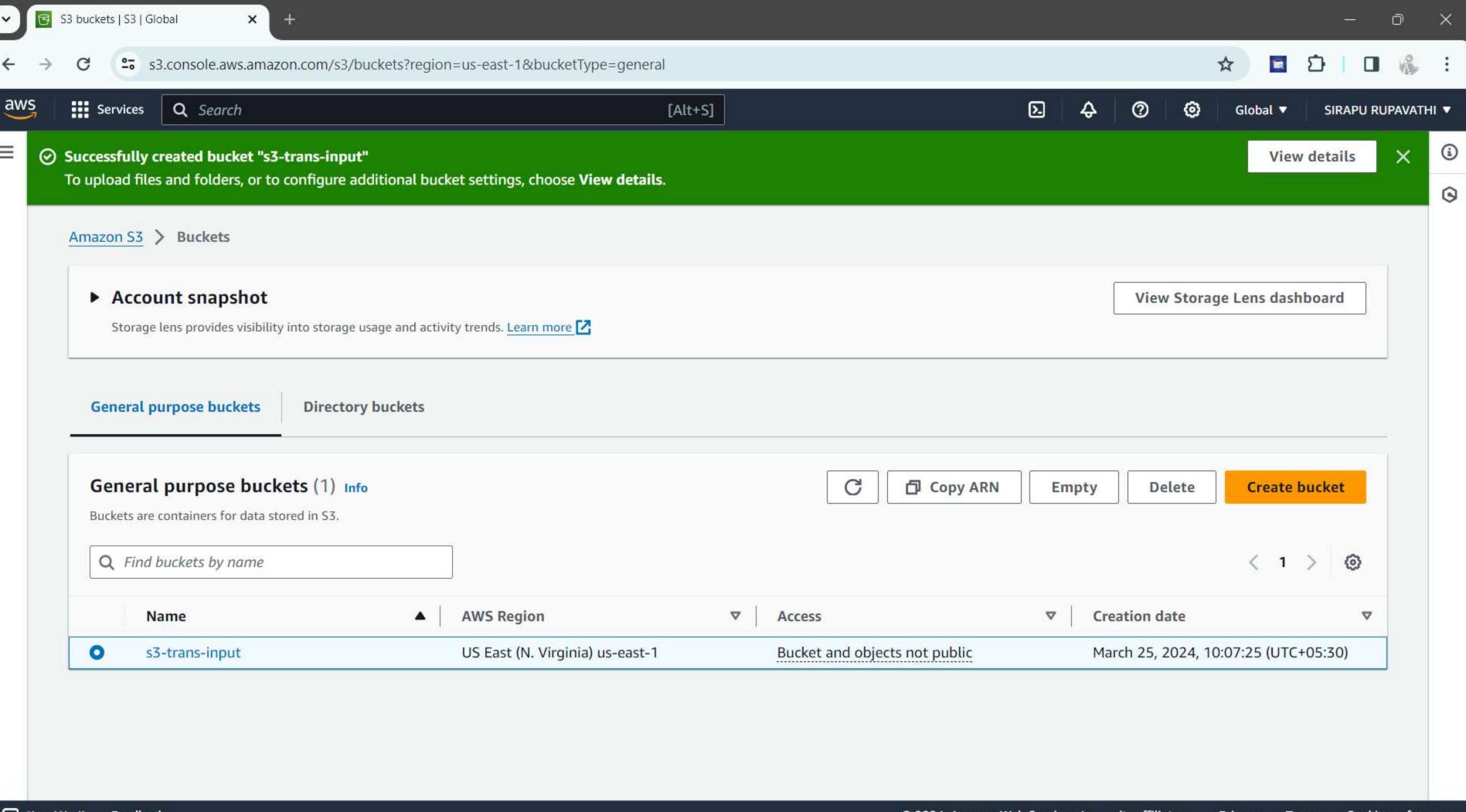
#### **Steps**

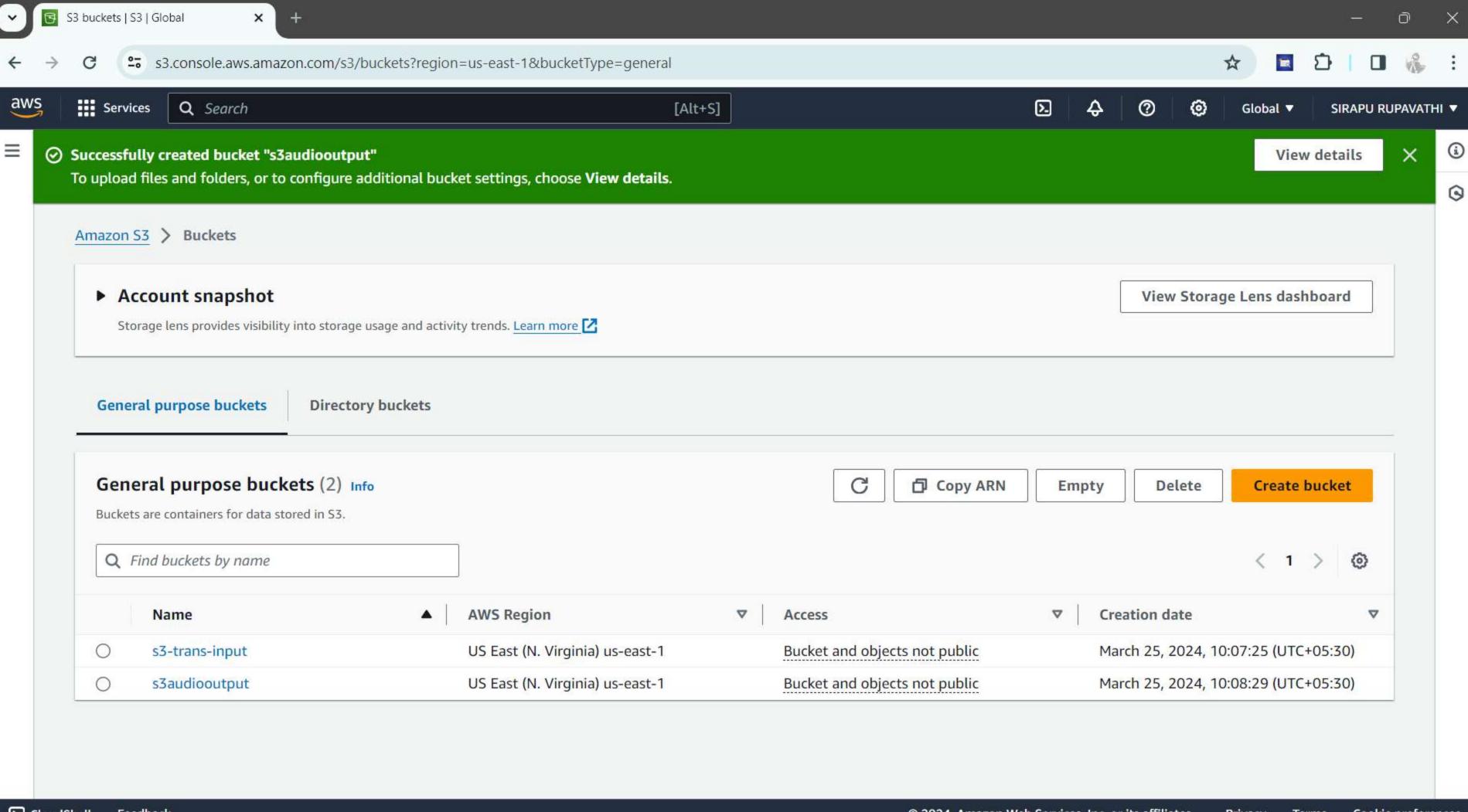
- 1. Create an Input Bucket and mention the details in frontend page.
- 2. Create an IAM Role by attaching policies like S3 Full Access and Transcribe Full Access.
- 3. Create a Lambda Function by selecting runtime as Python 3.8 and execution role as Existing Role, select role name created in previous step.
- 4. Add Trigger select source as \$3 and Bucket Name as Input Bucket.
- 5. After creating Lambda, Create an S3 Output Bucket to store the text which is converted by using AWS Transcribe through Lambda Function.
- 6. Now add Inline Policy to the Role which we already created in Step 2.
- 7. After adding policy, Navigate to S3 and click on output bucket now go to Properties tab scroll down to create an event notification.
- 8. Give the event and Events >> Object creation select all object create events.
- 9. Select destination as Lambda function and choose the lambda function created in Step 3.

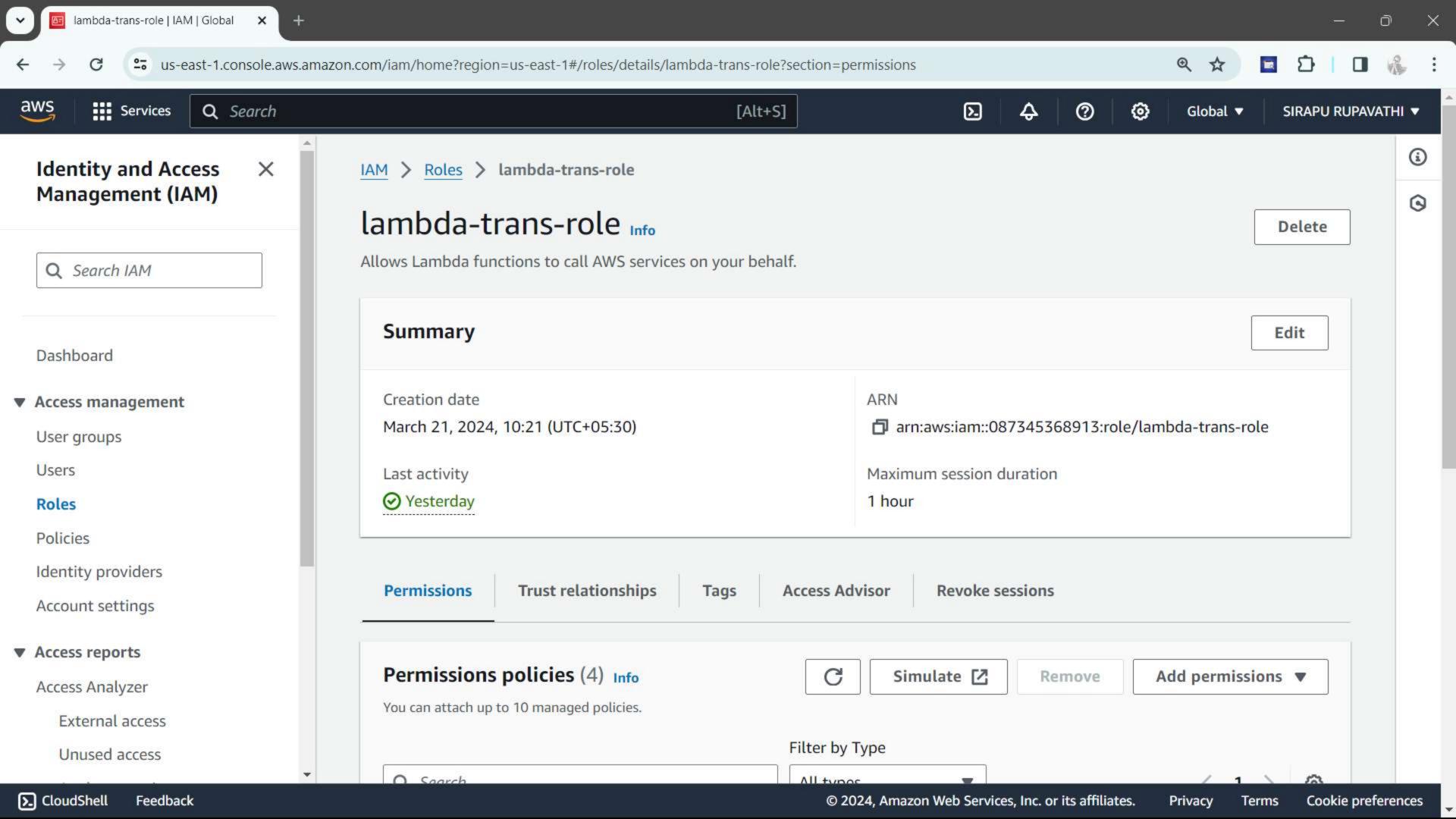
#### **Implementation**

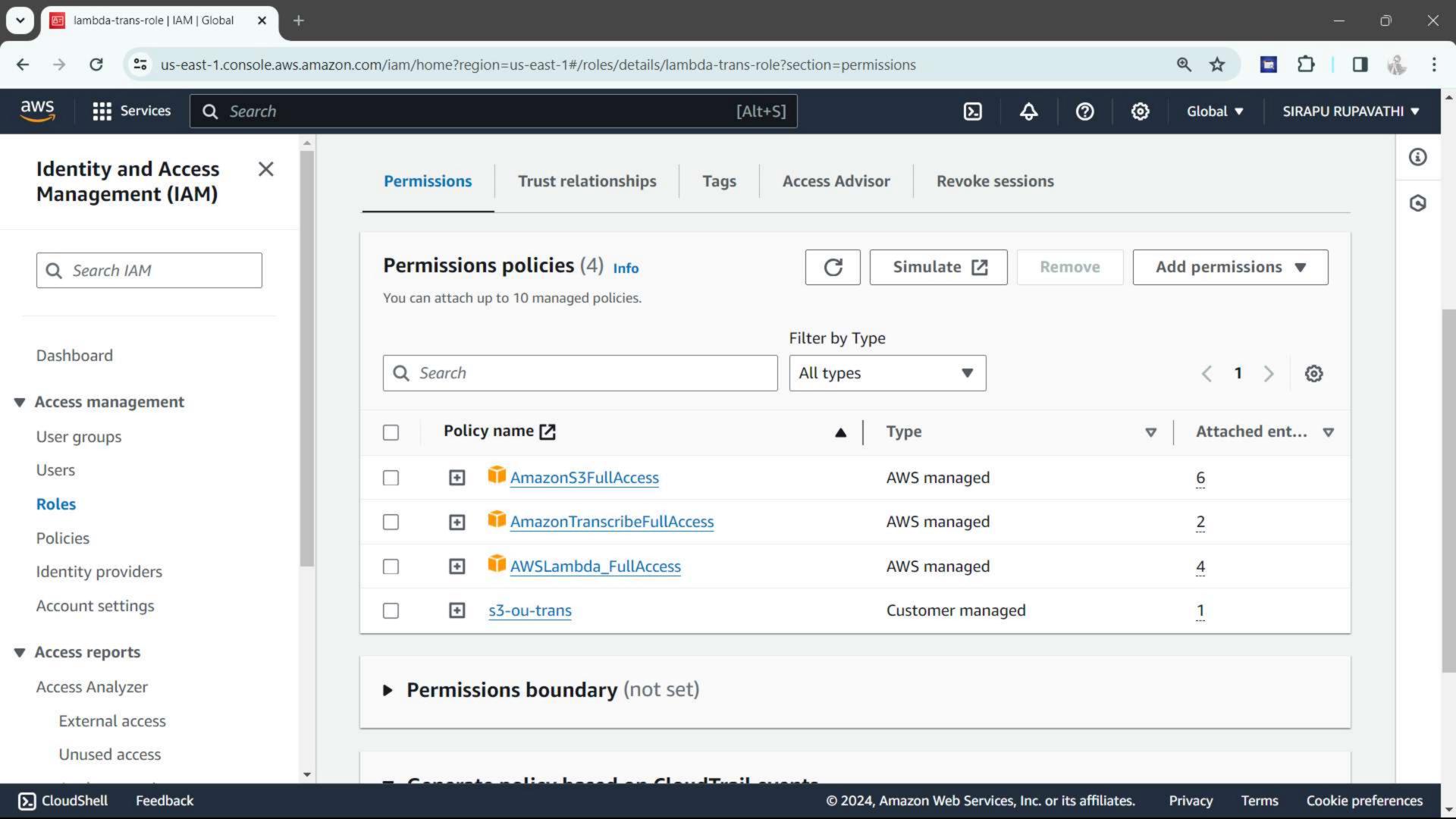
- 1. Upload the audio File using the frontend Page.
- 2. By clicking the Upload button it will directly uploaded into \$3 Input Bucket.
- 3. As we triggered the lambda function.
- 4. That file will directly sent to the AWS Transcribe and randomly creates a job and its converts the audio file into text.
- 5. That output text will store into the S3 bucket in JSON format.
- 6. We can see the final text by downloading the JSON file.

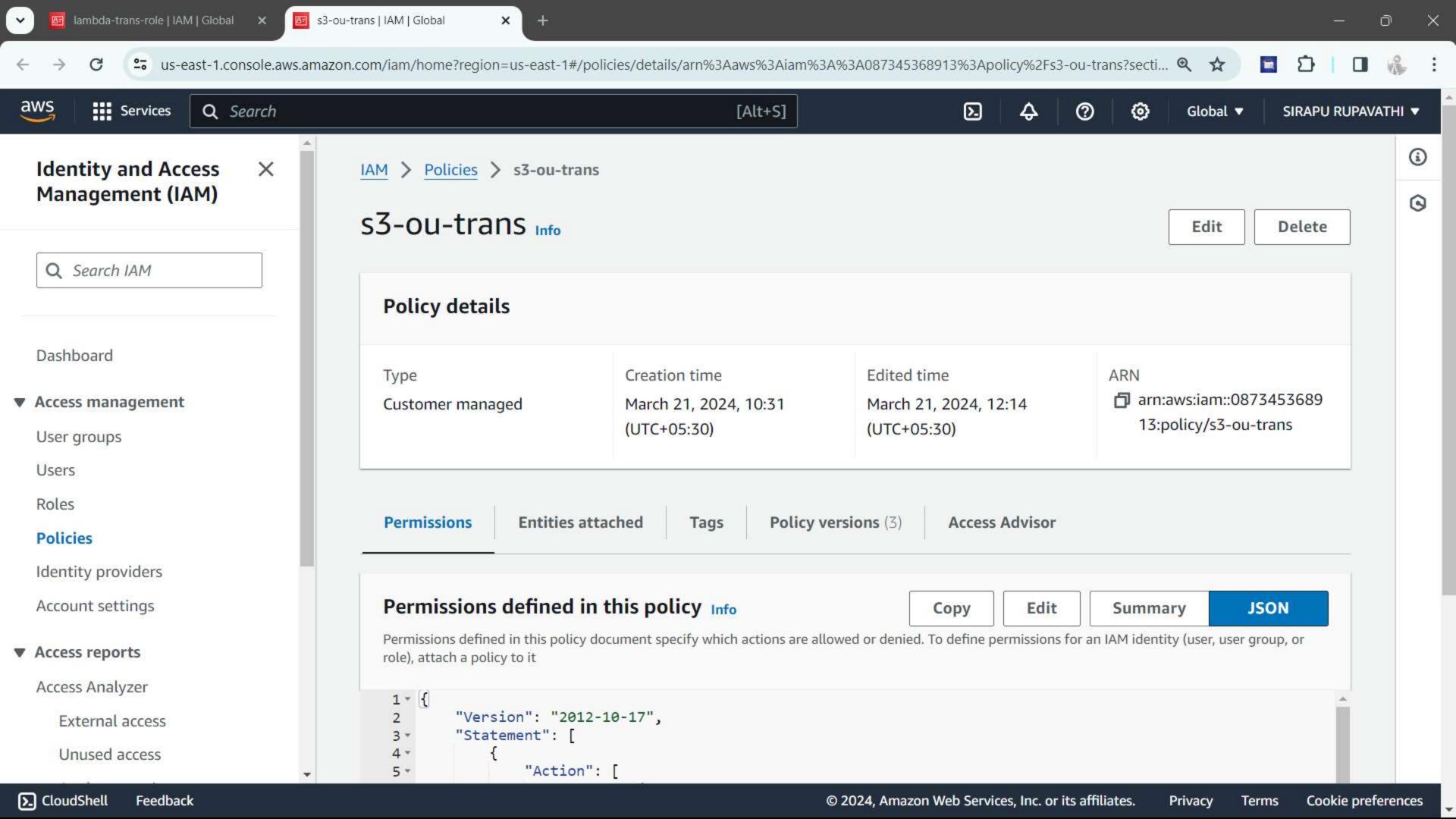


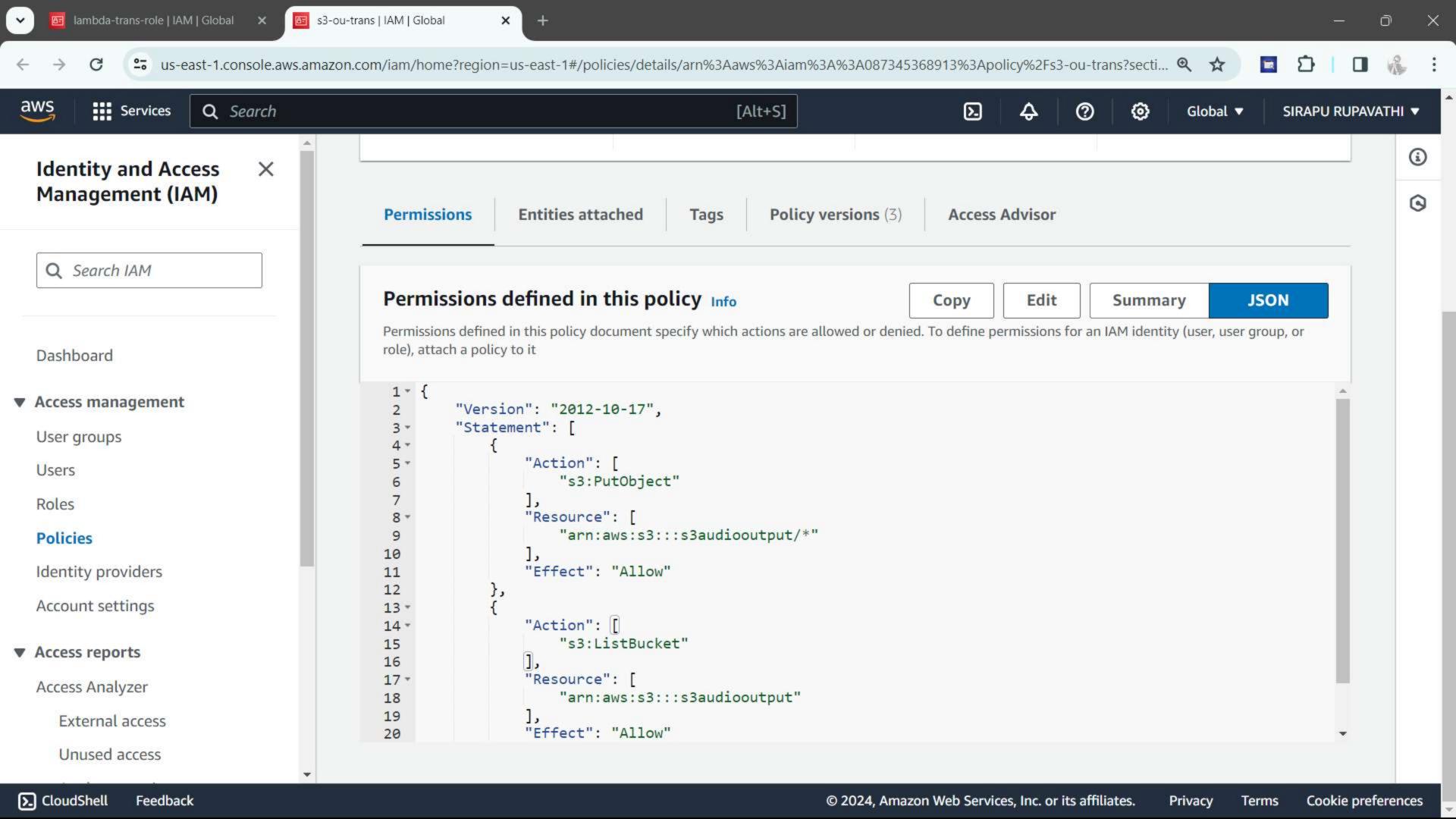


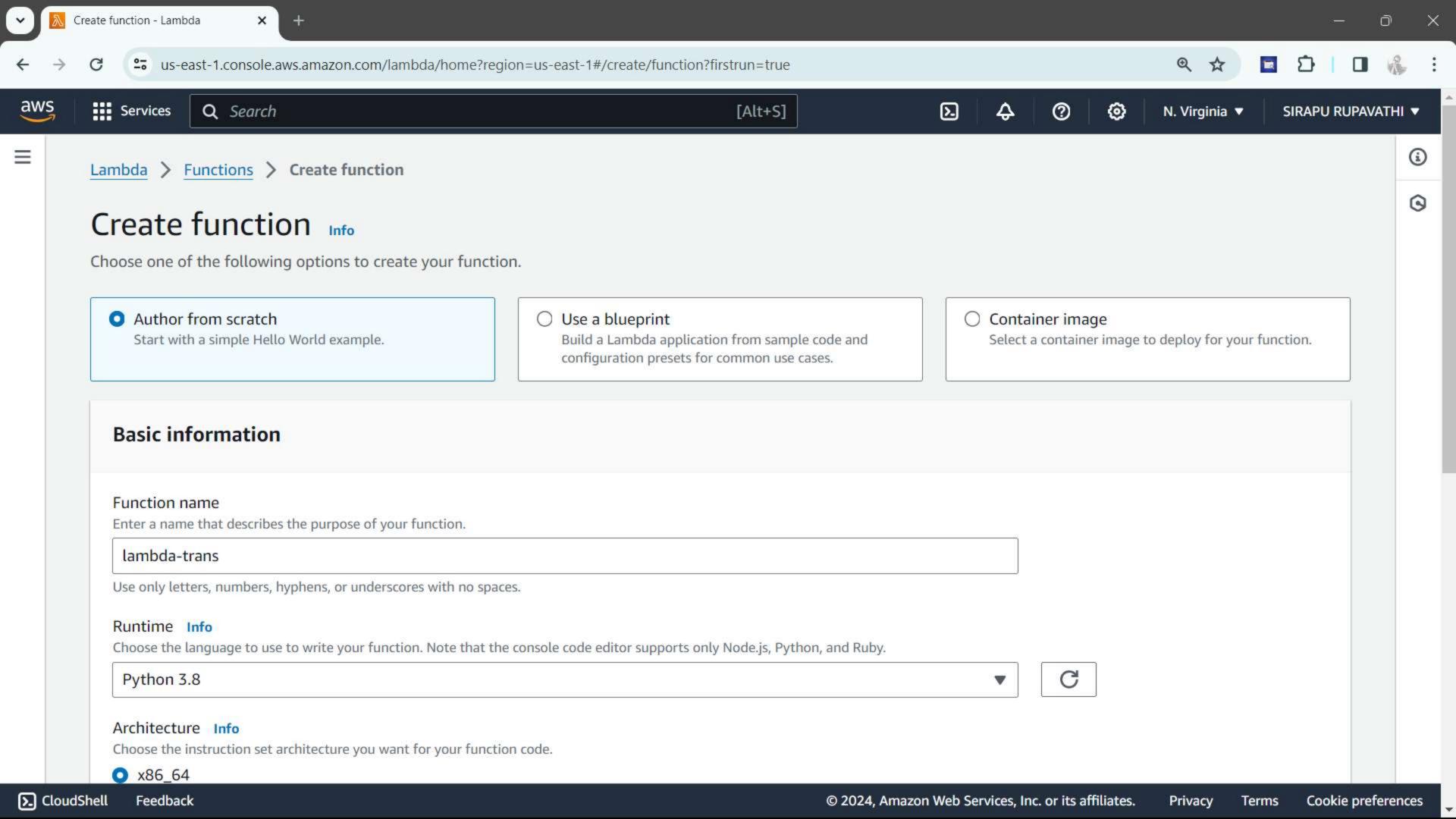


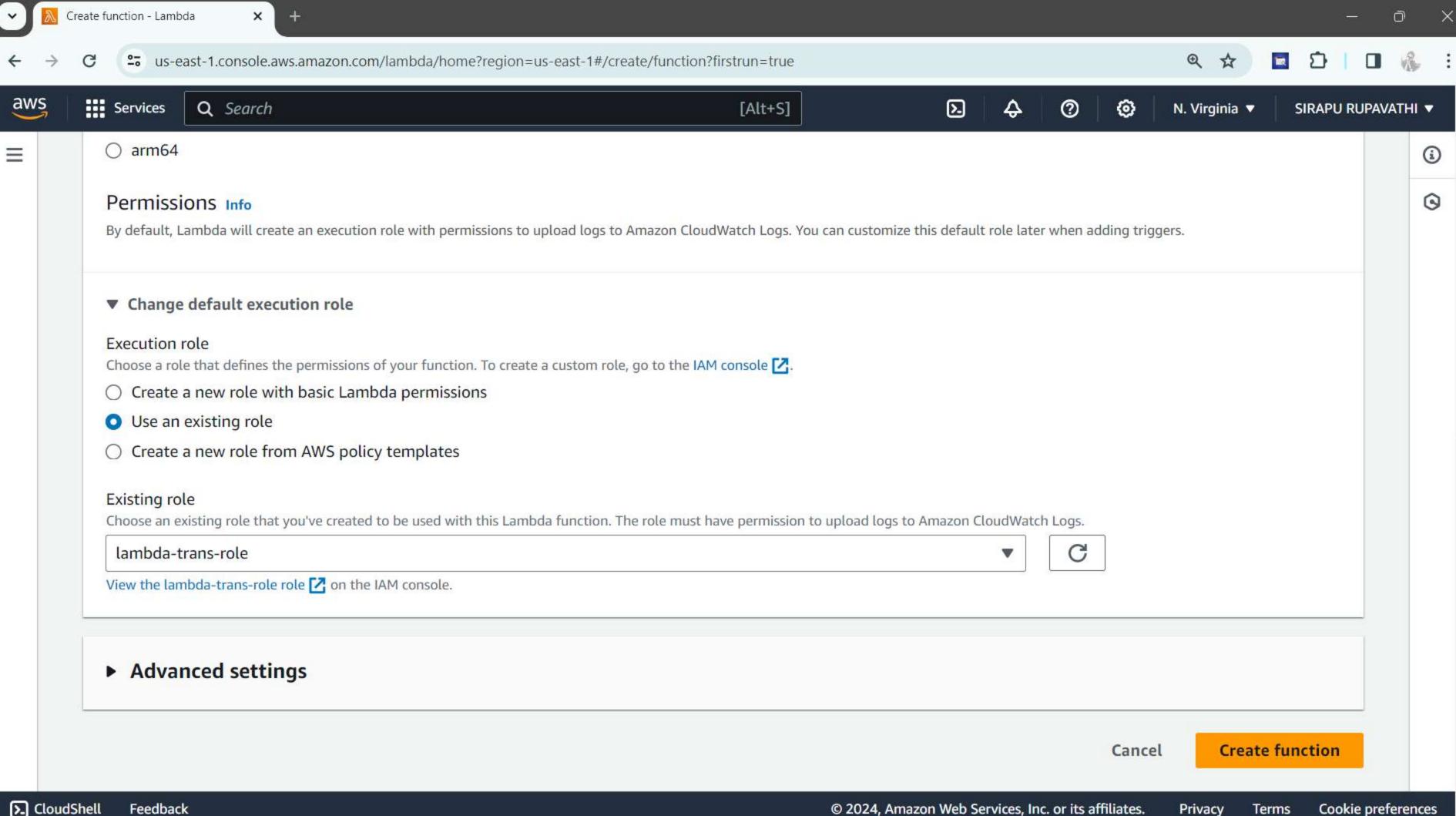


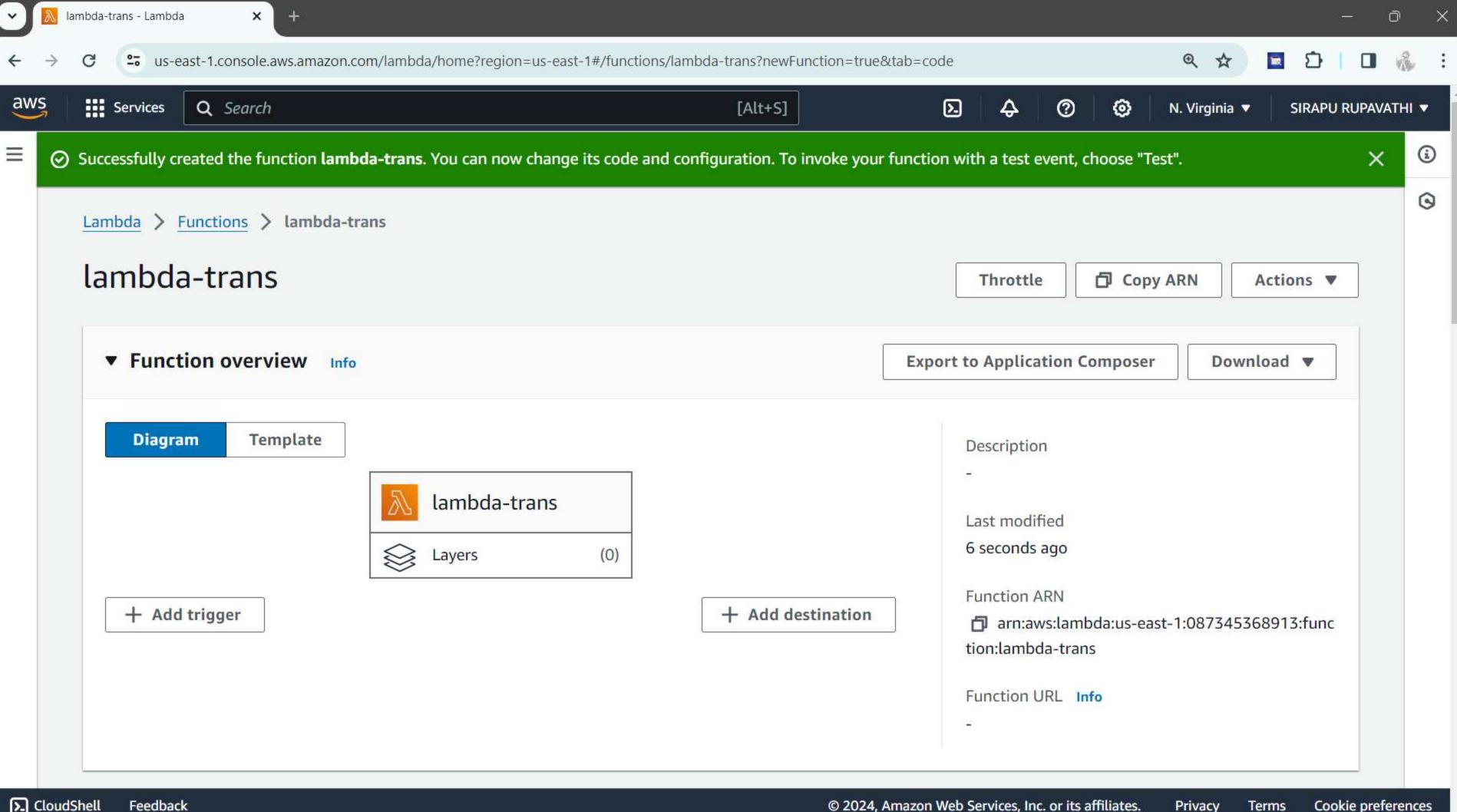


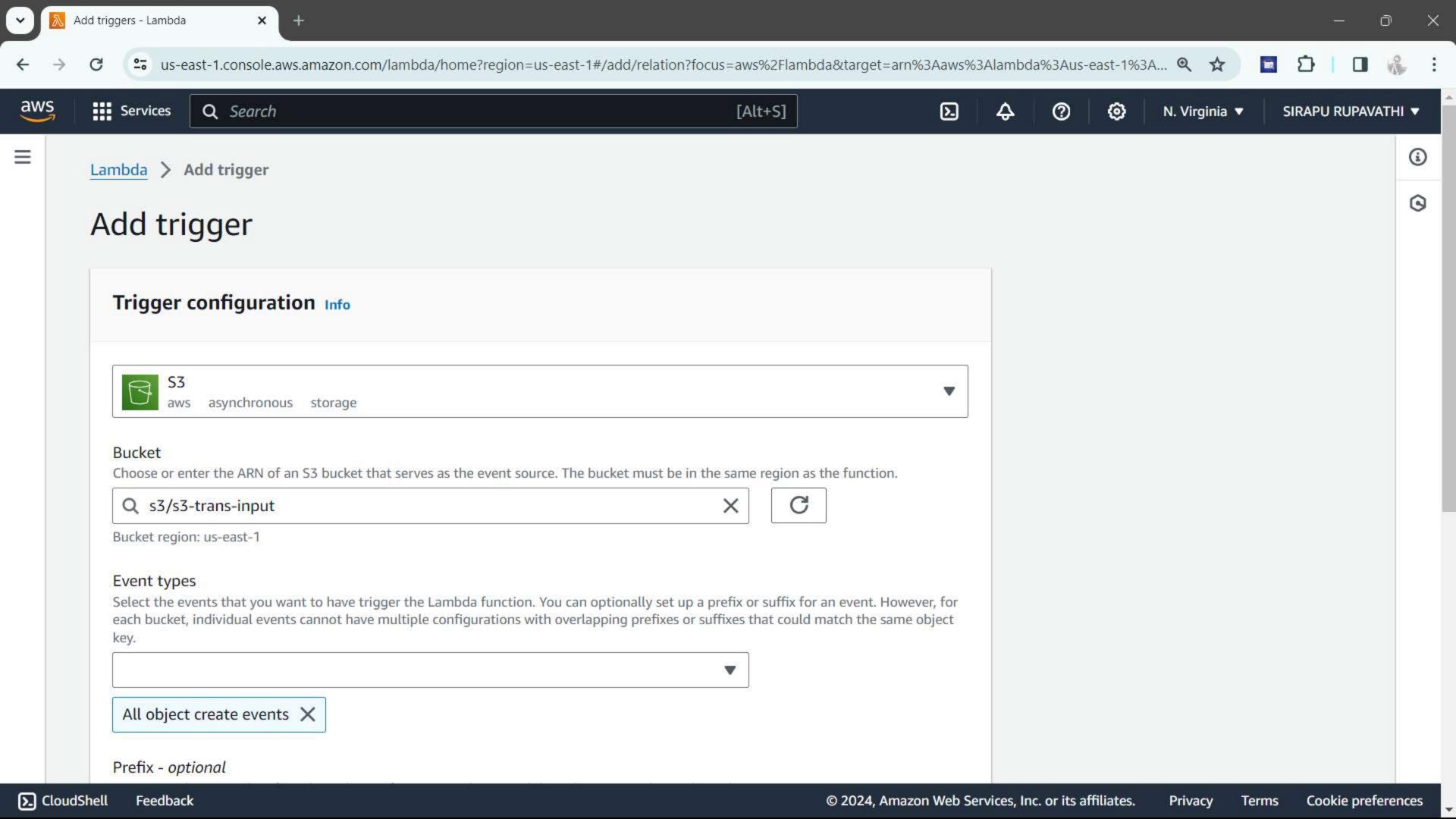


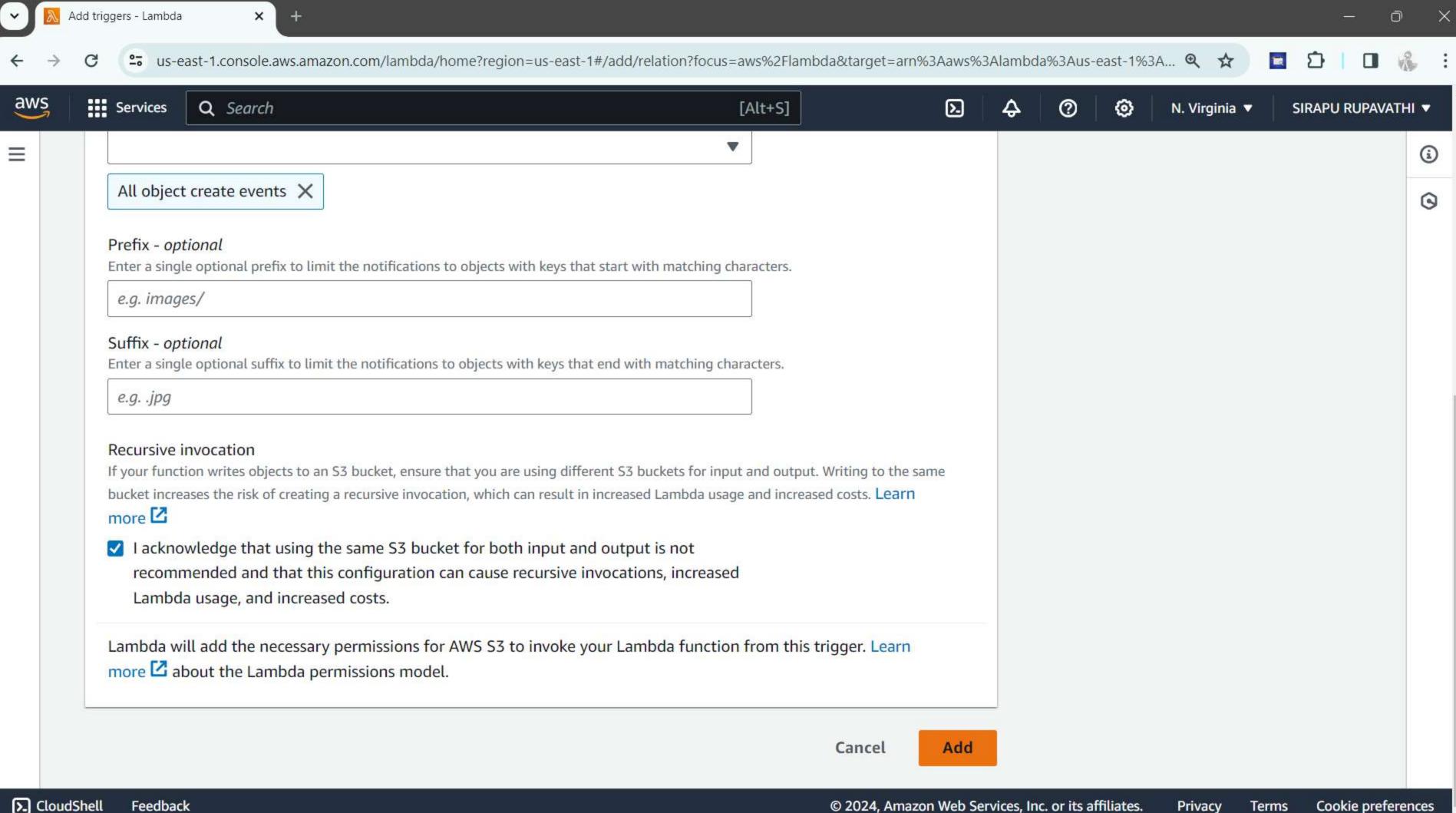


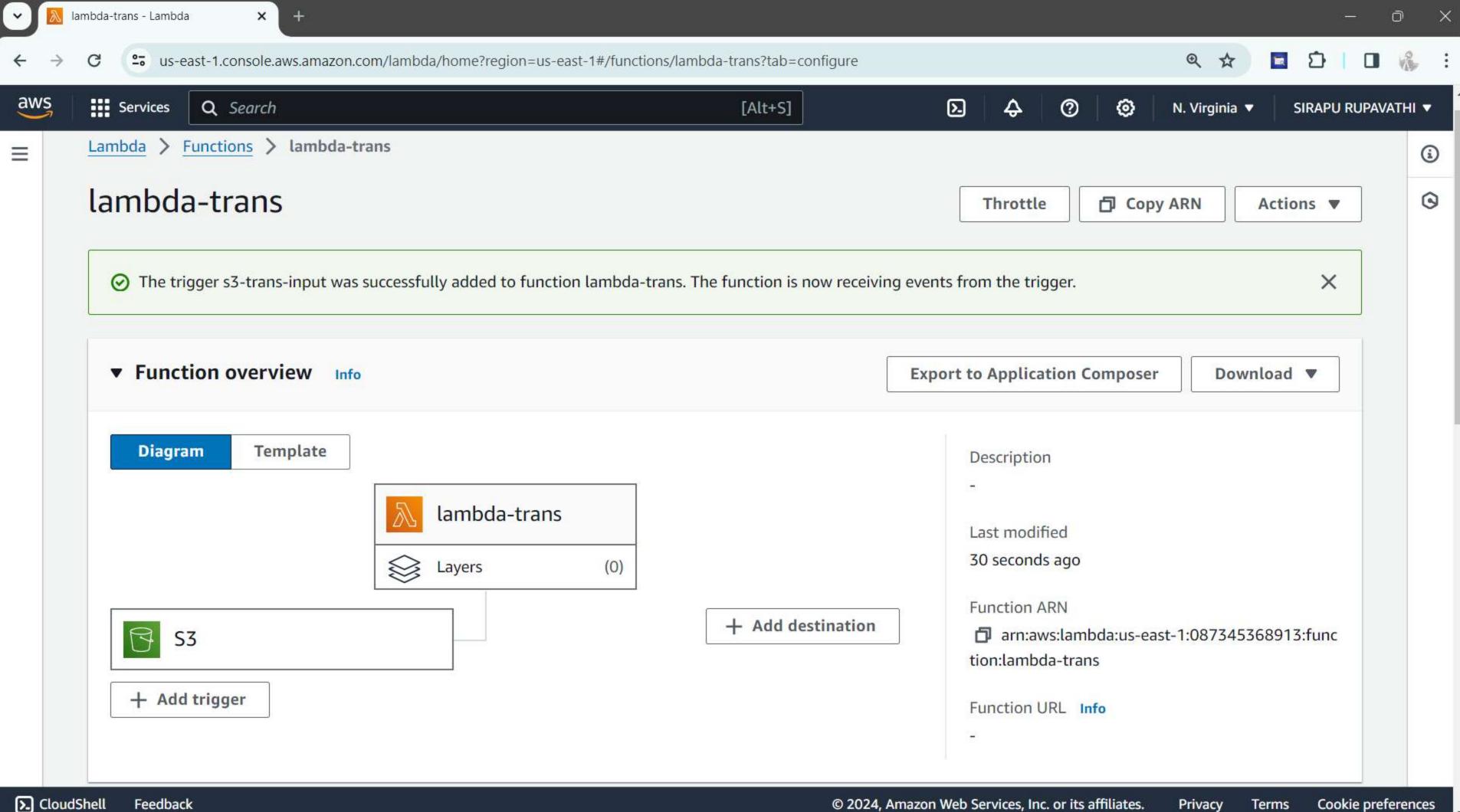


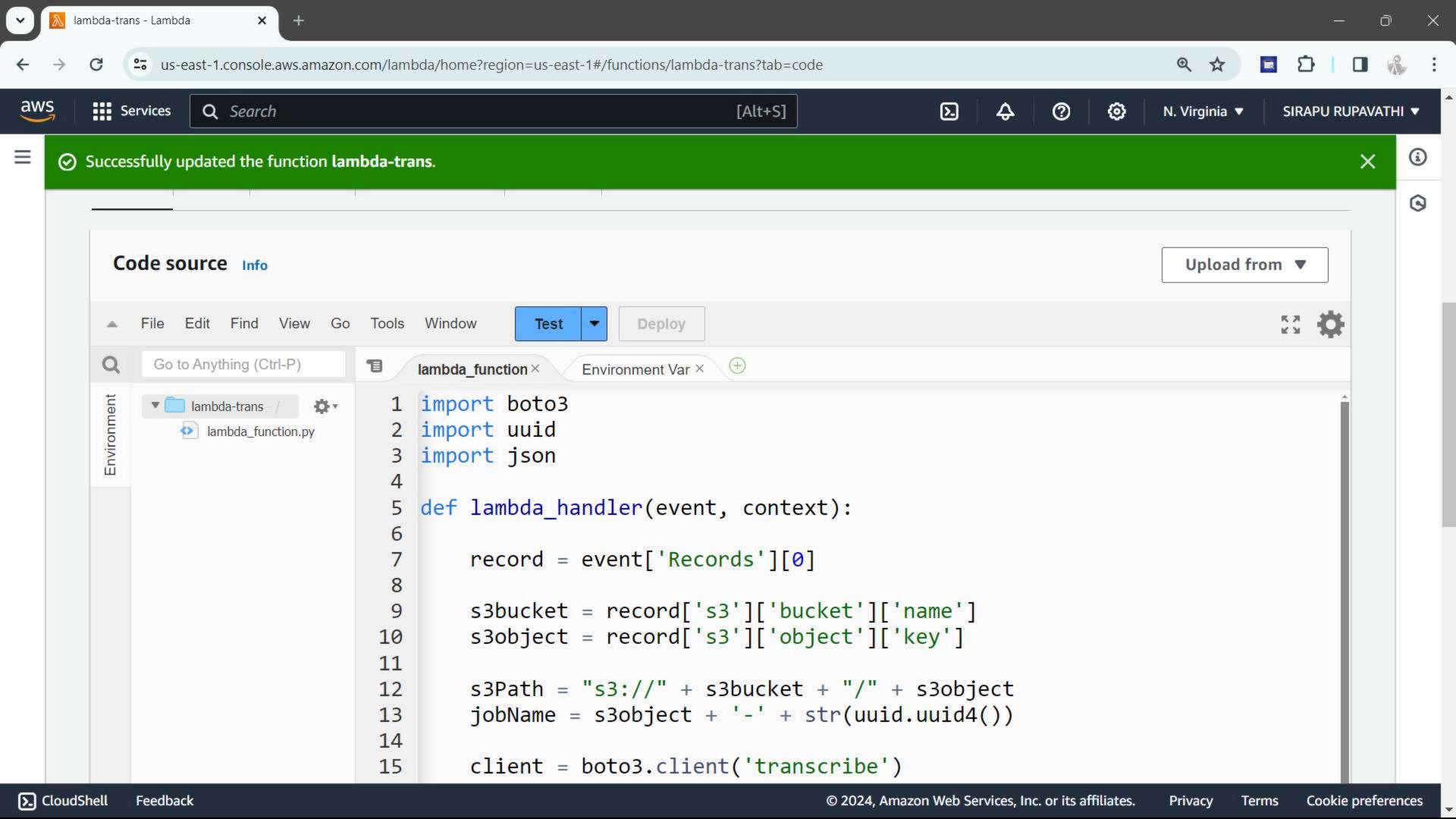


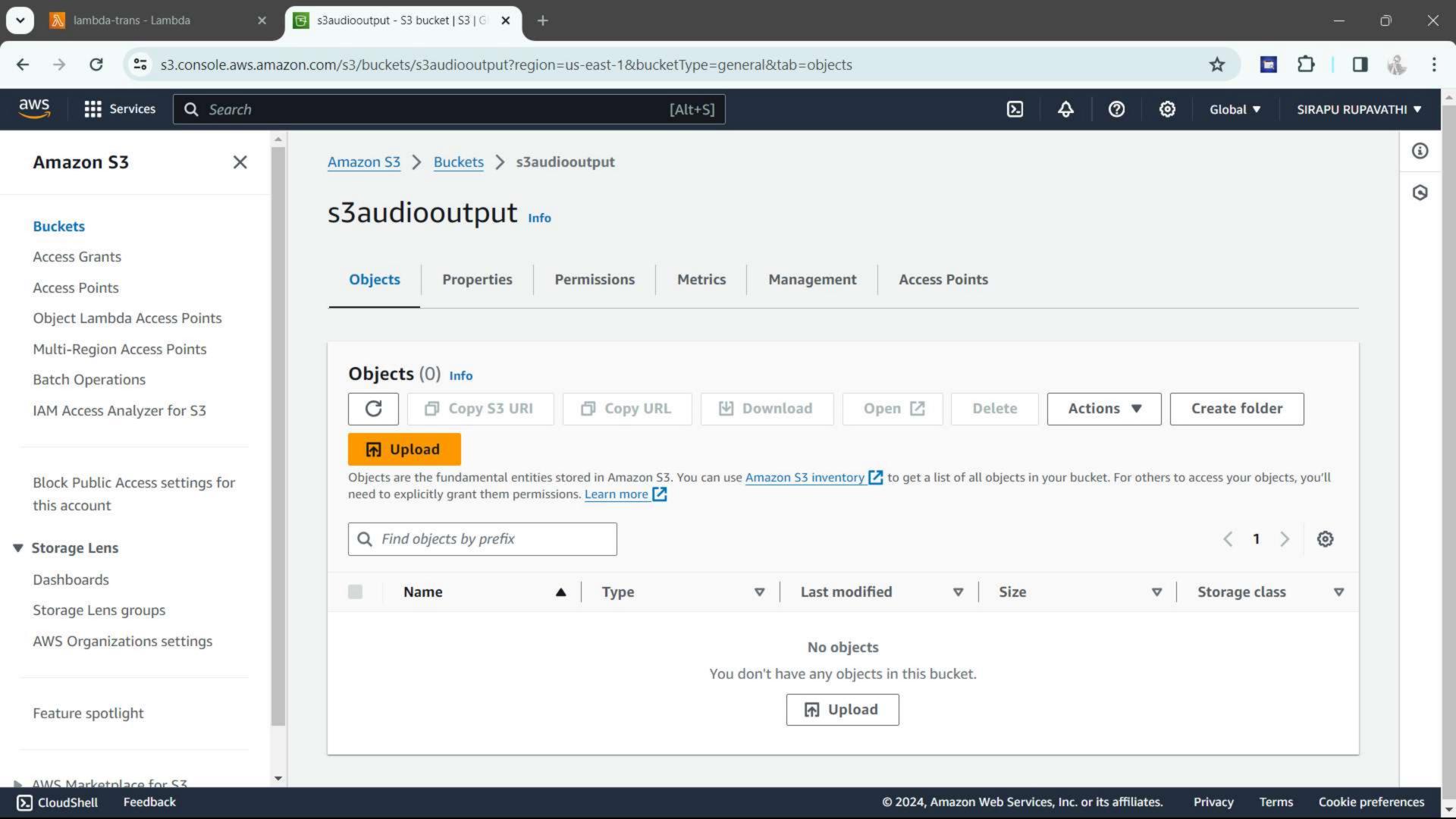


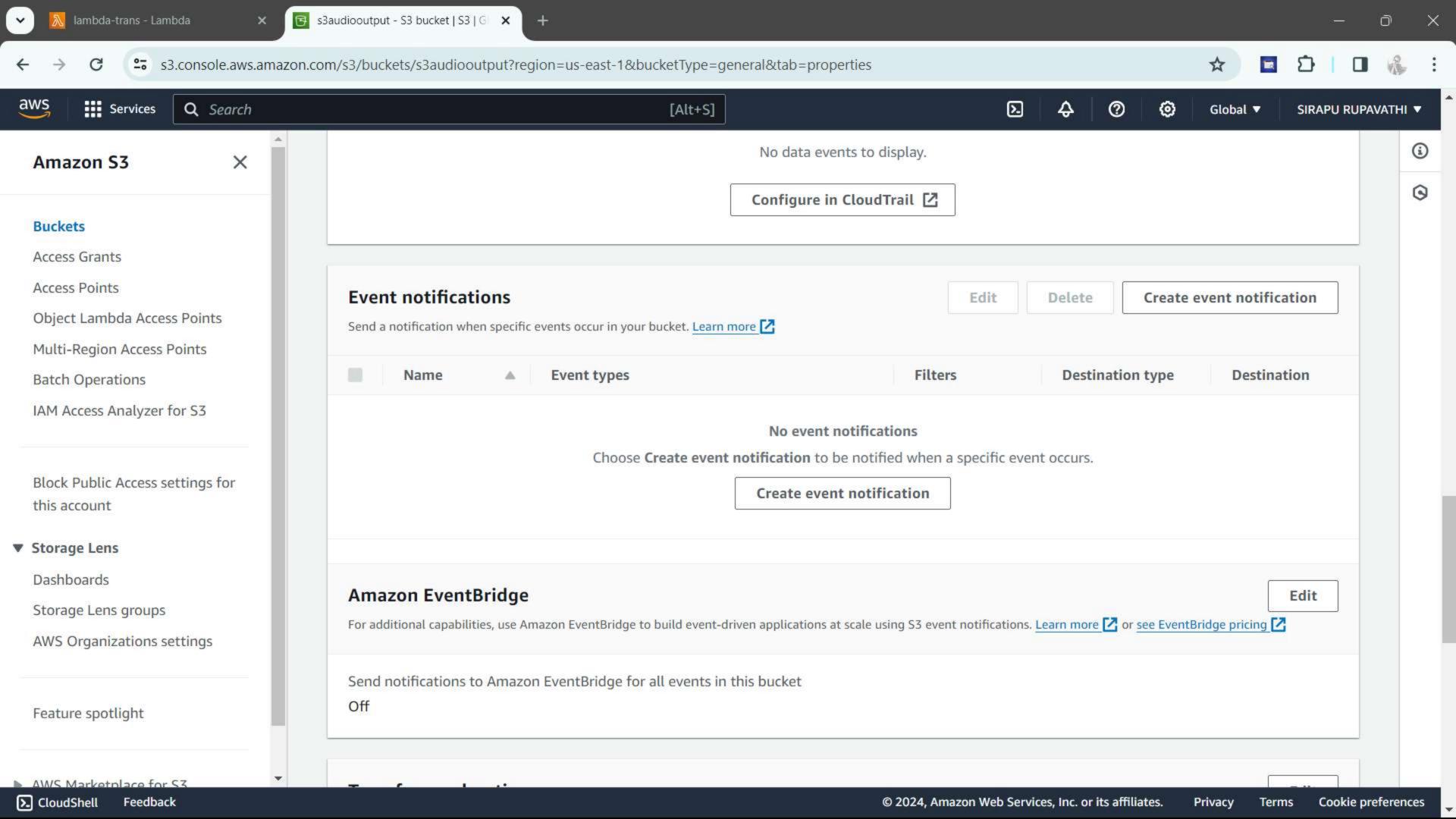


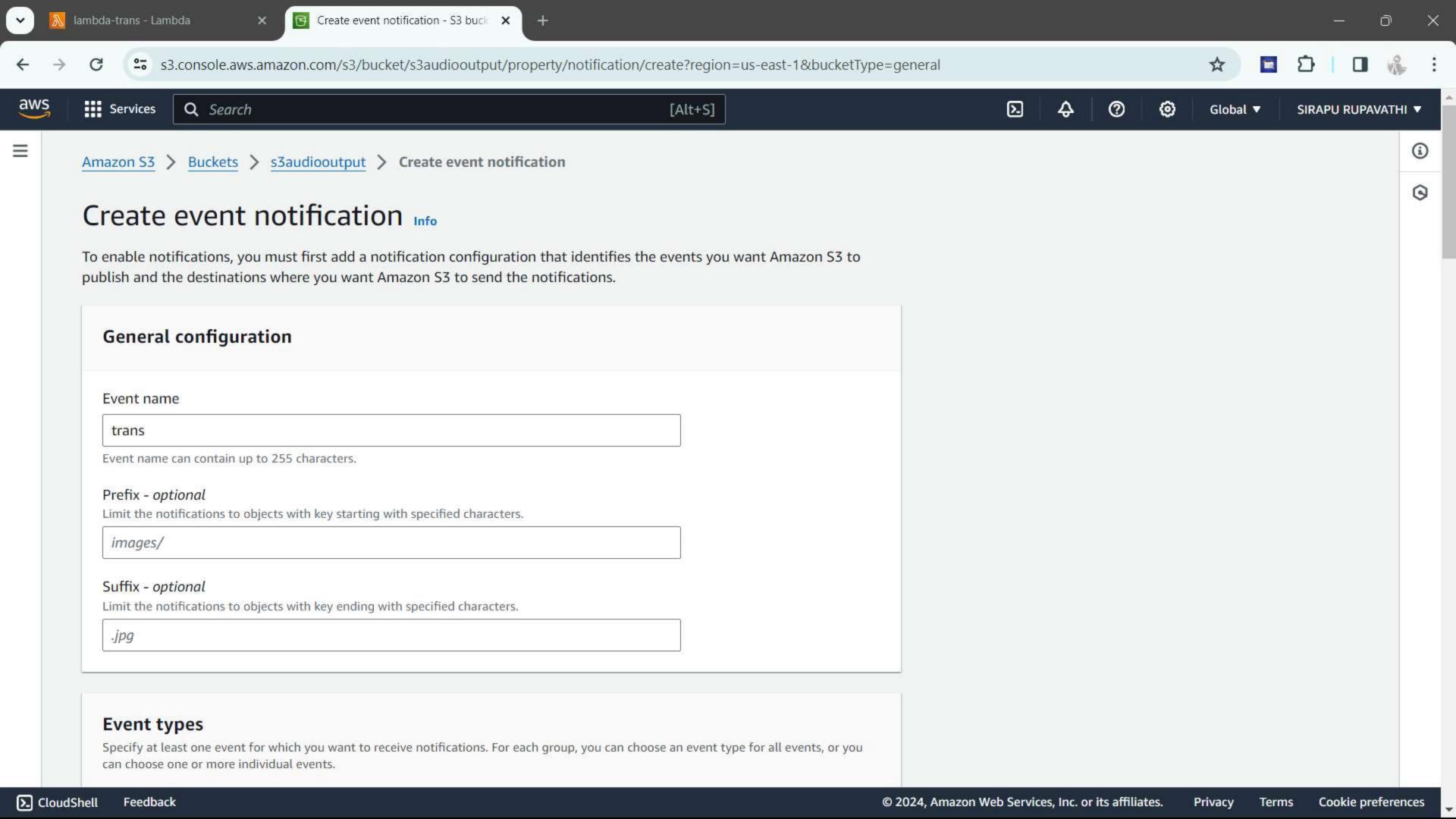


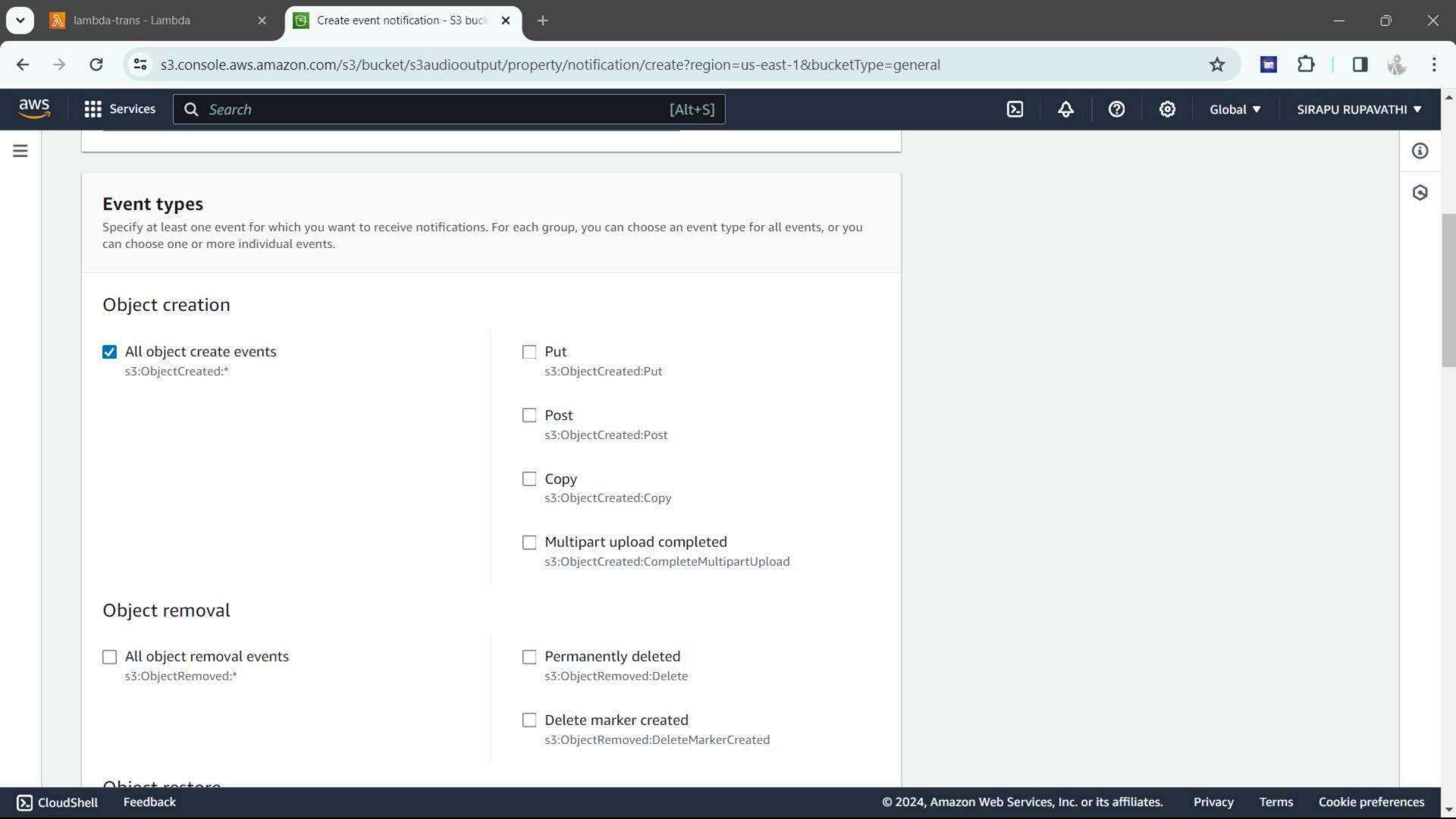


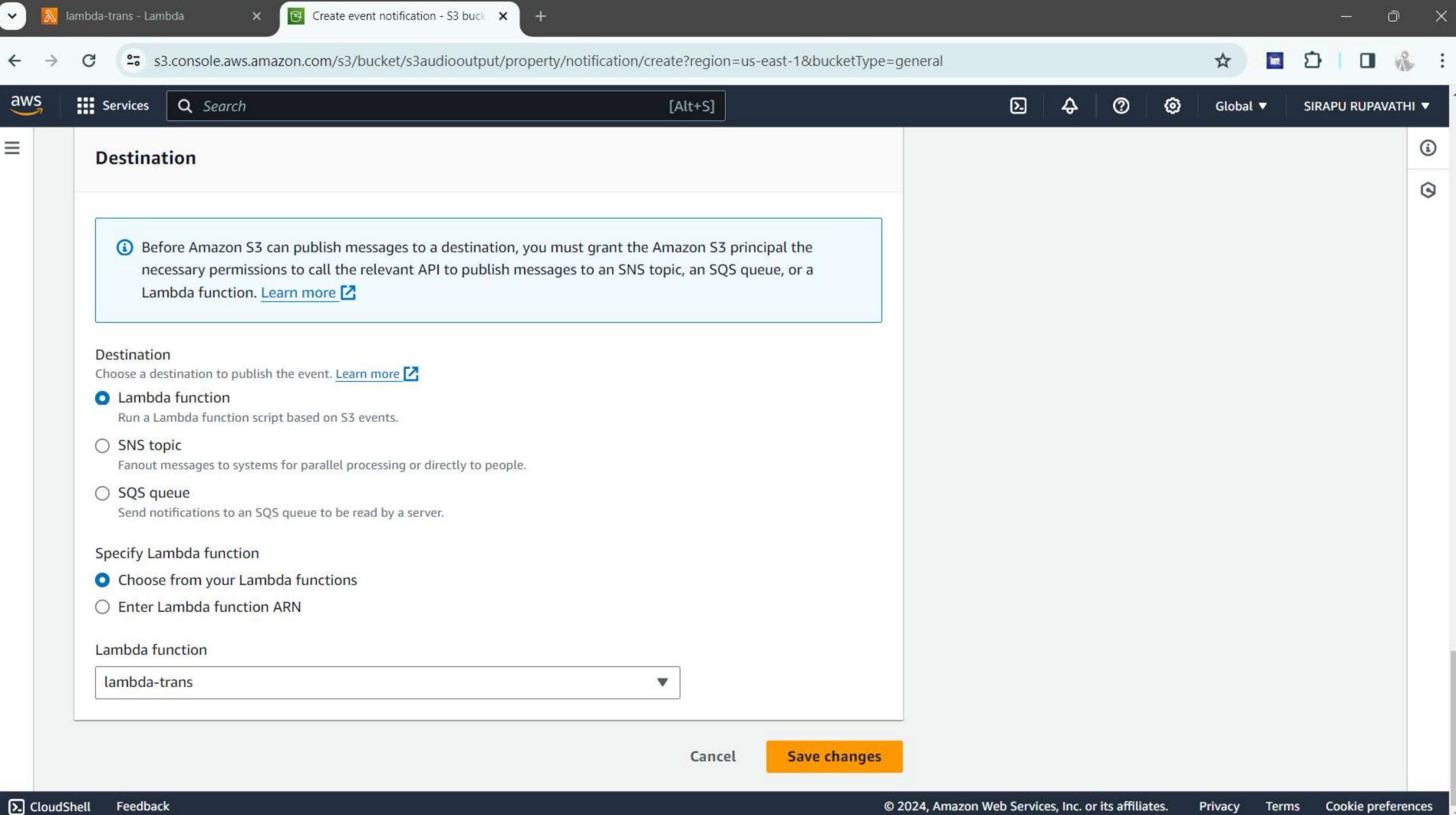


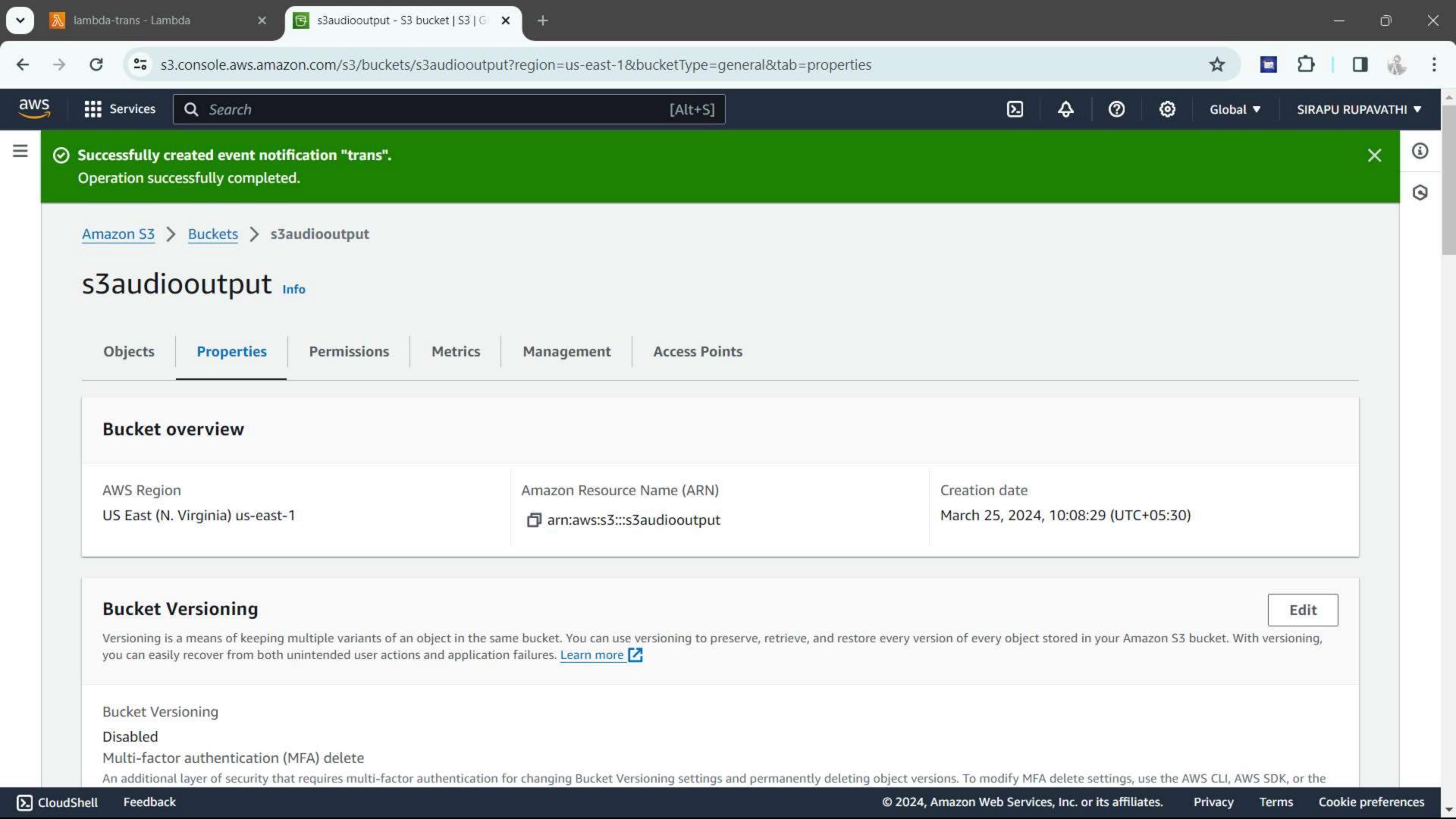


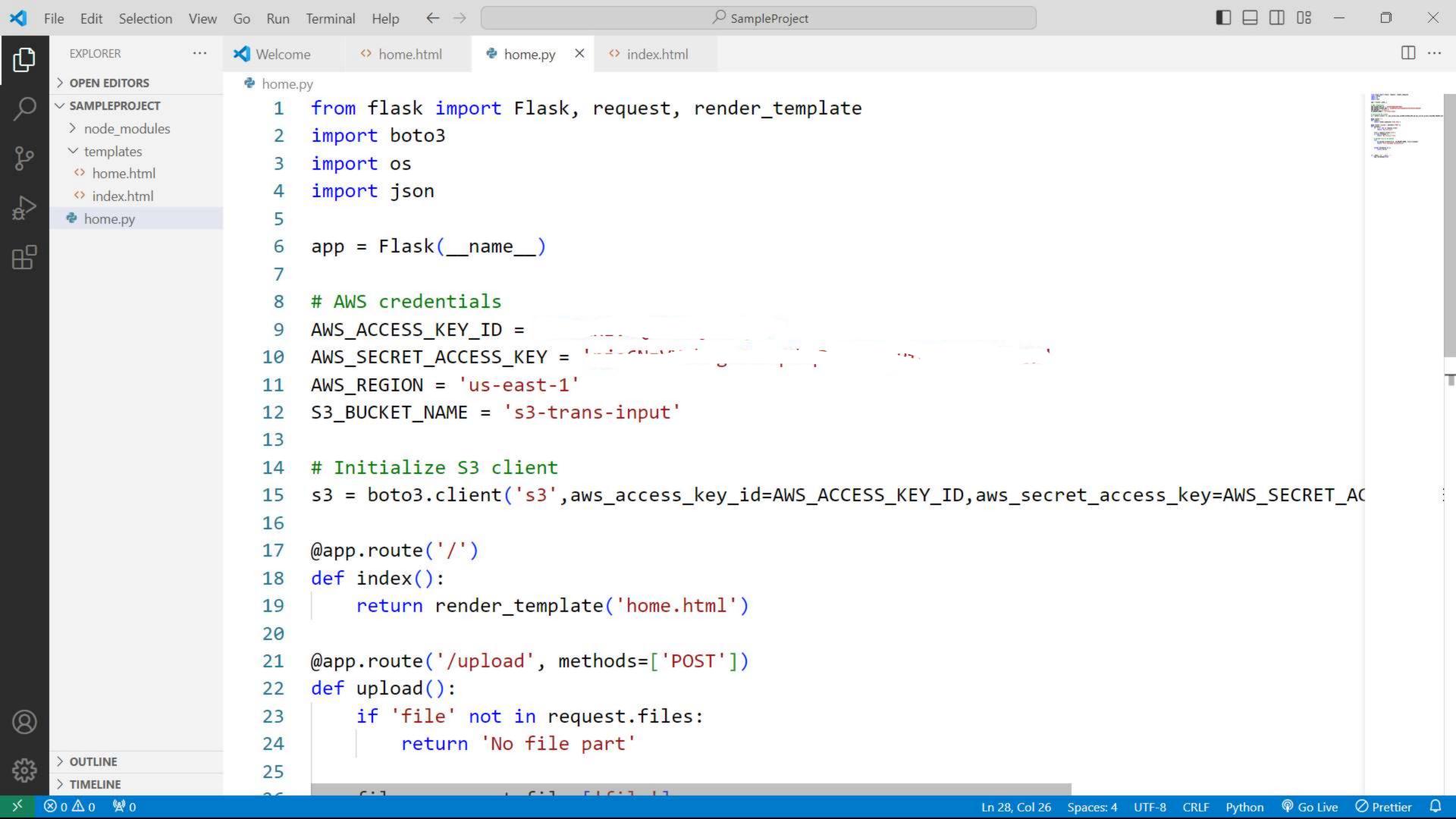












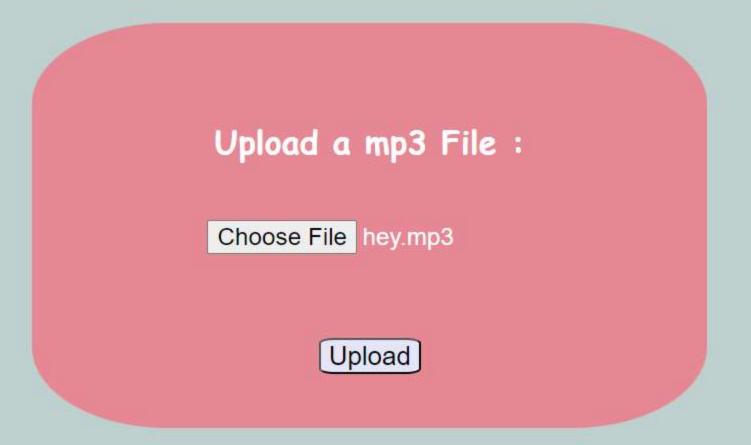


## Capture Every Word with Audio Transcripts



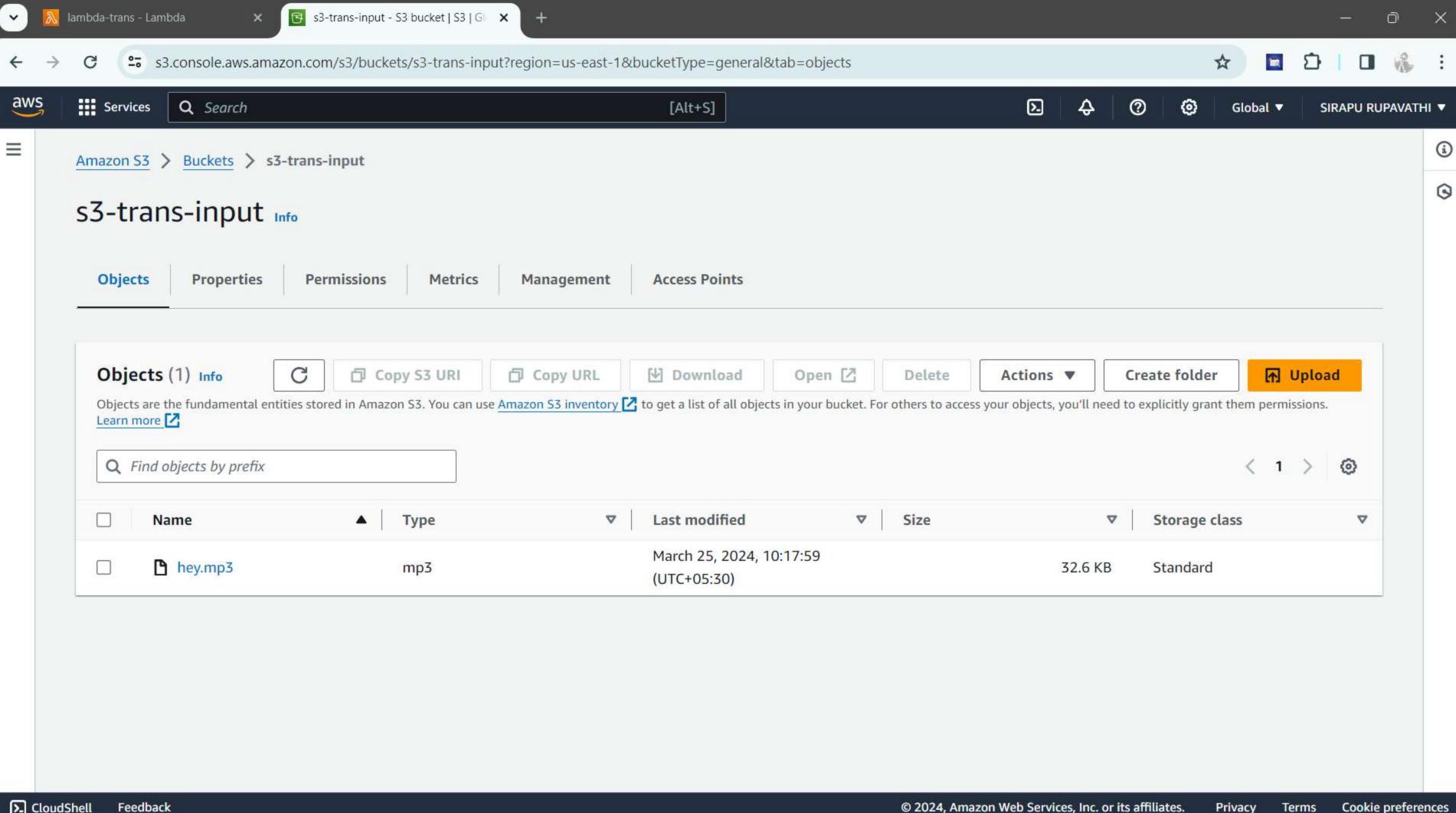


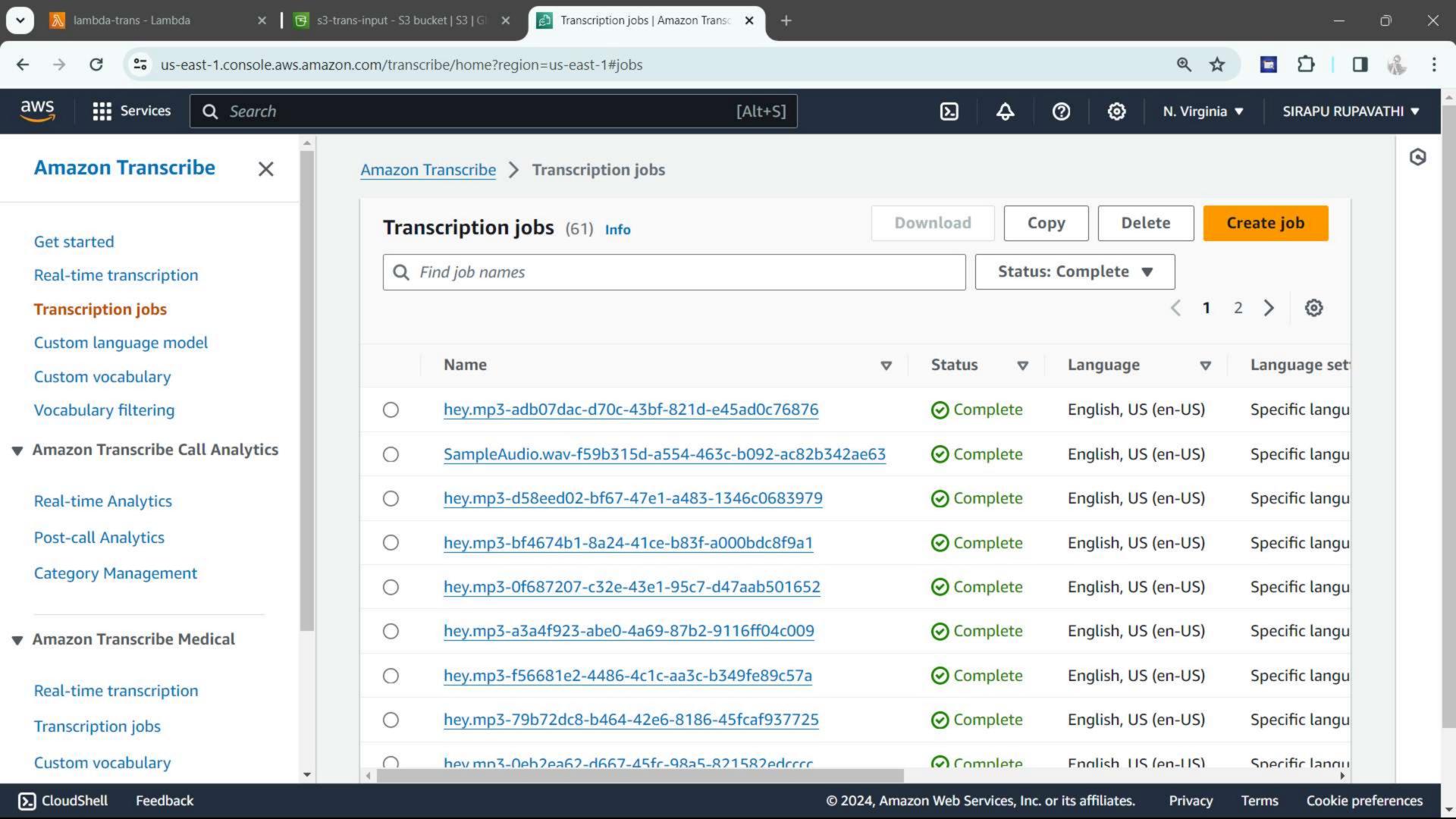
## Capture Every Word with Audio Transcripts

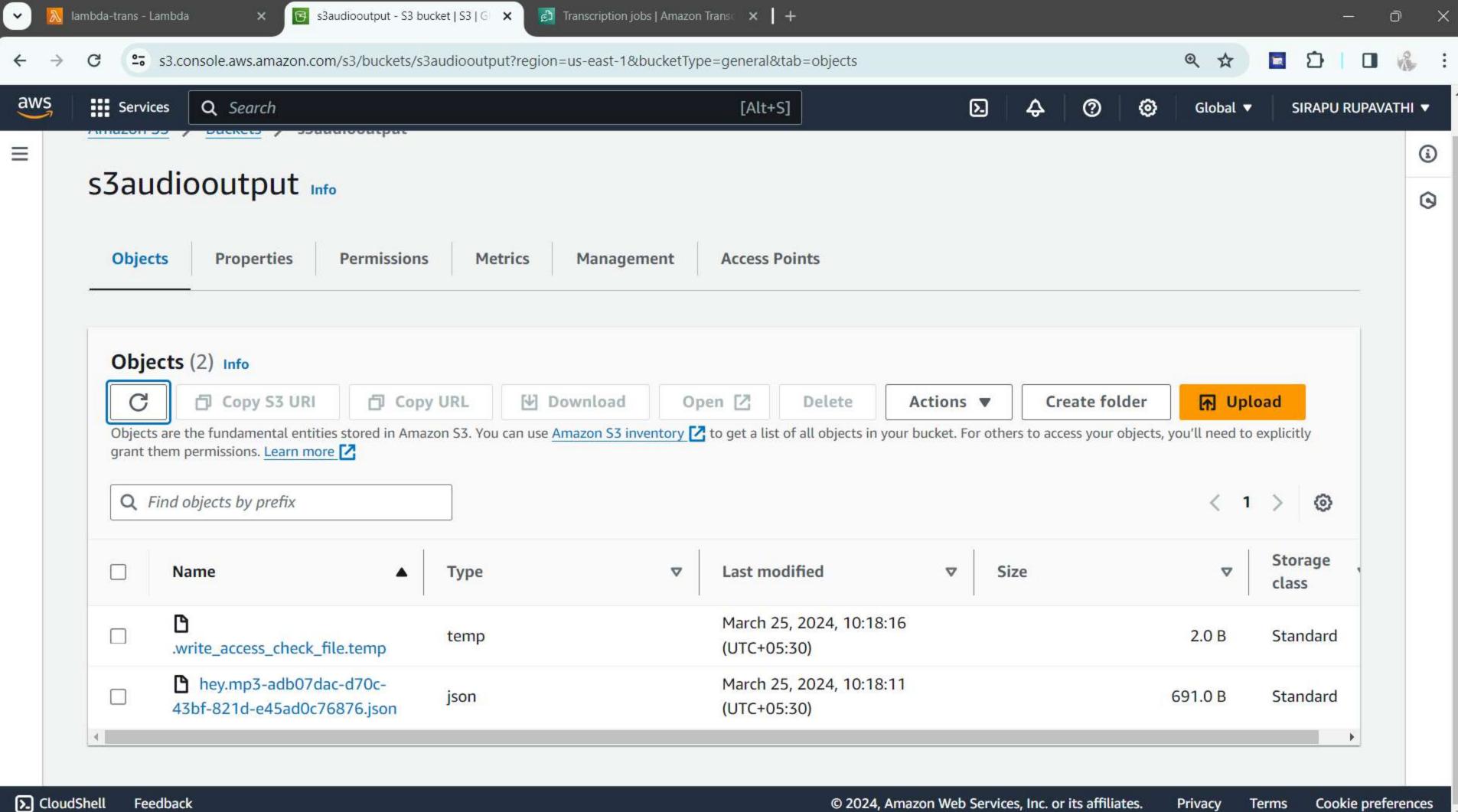




# File uploaded Successfully







# THANK YOU