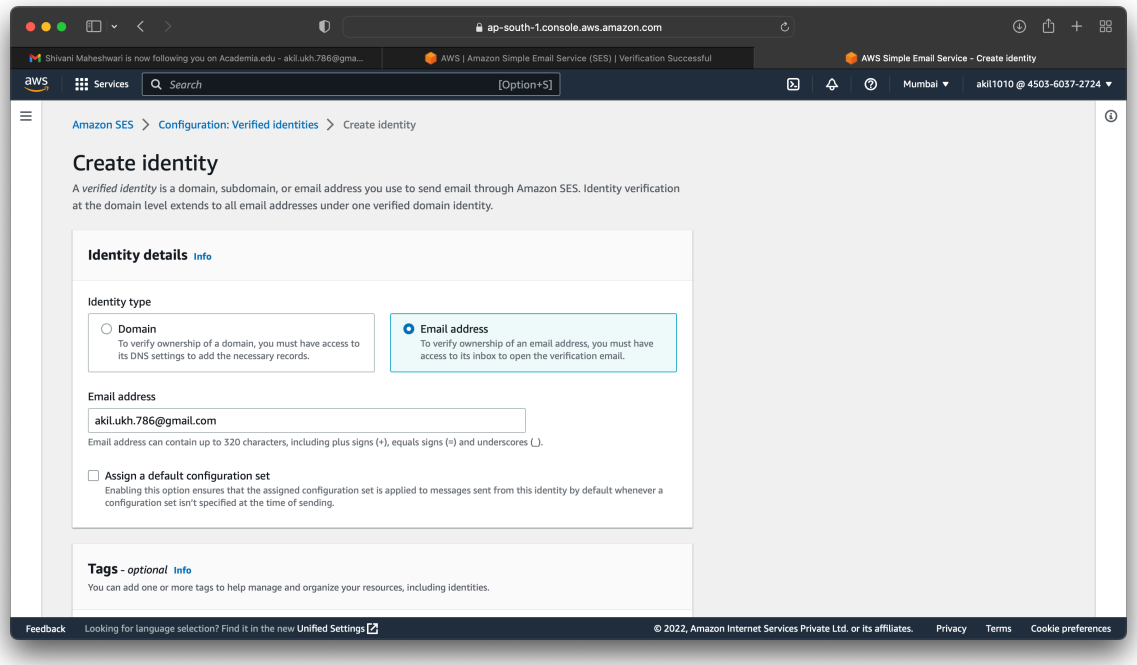
Experiment : 7

Reg No- 097

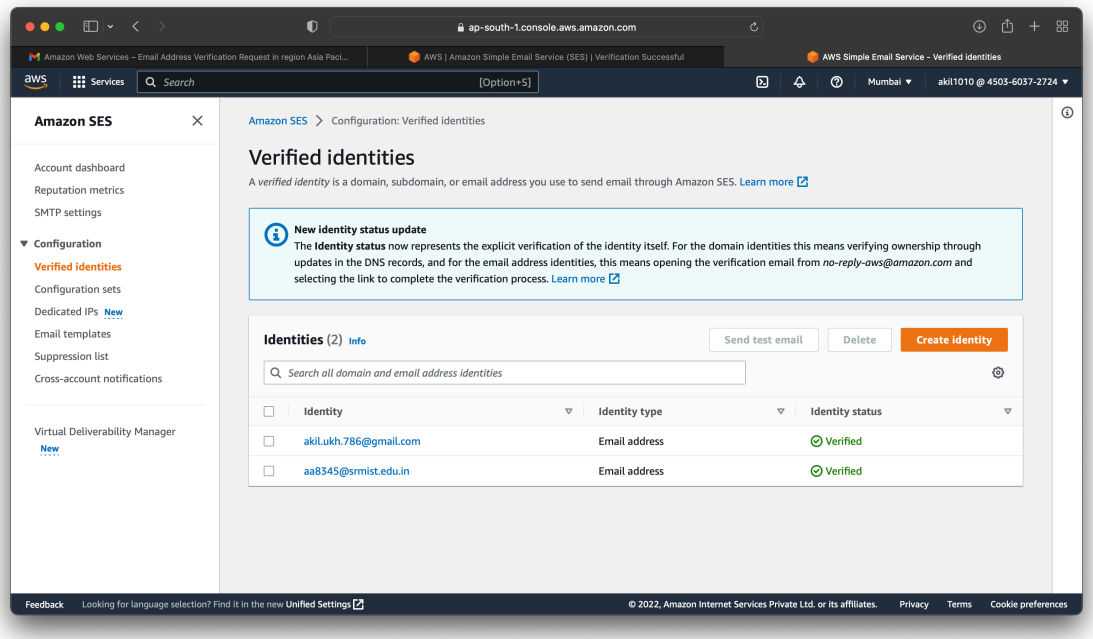
Title : Creating a lambda function in AWS to email daily reports
Aim : Automate Sending Emails at a Specific Time with AWS Lambda, CloudWatch and SES
Pre-requisites : AWS Console, Amazon SES, Amazon Lambda, Amazon CloudWatch.
Procedure : We are going automate sending email to a person or a group of people. AWS **Cloudwatch** is used to setup a schedule to trigger AWS **Lambda** function and then its going to use AWS **SES** (**Simple Email Service**) to send out emails to people.

Steps:

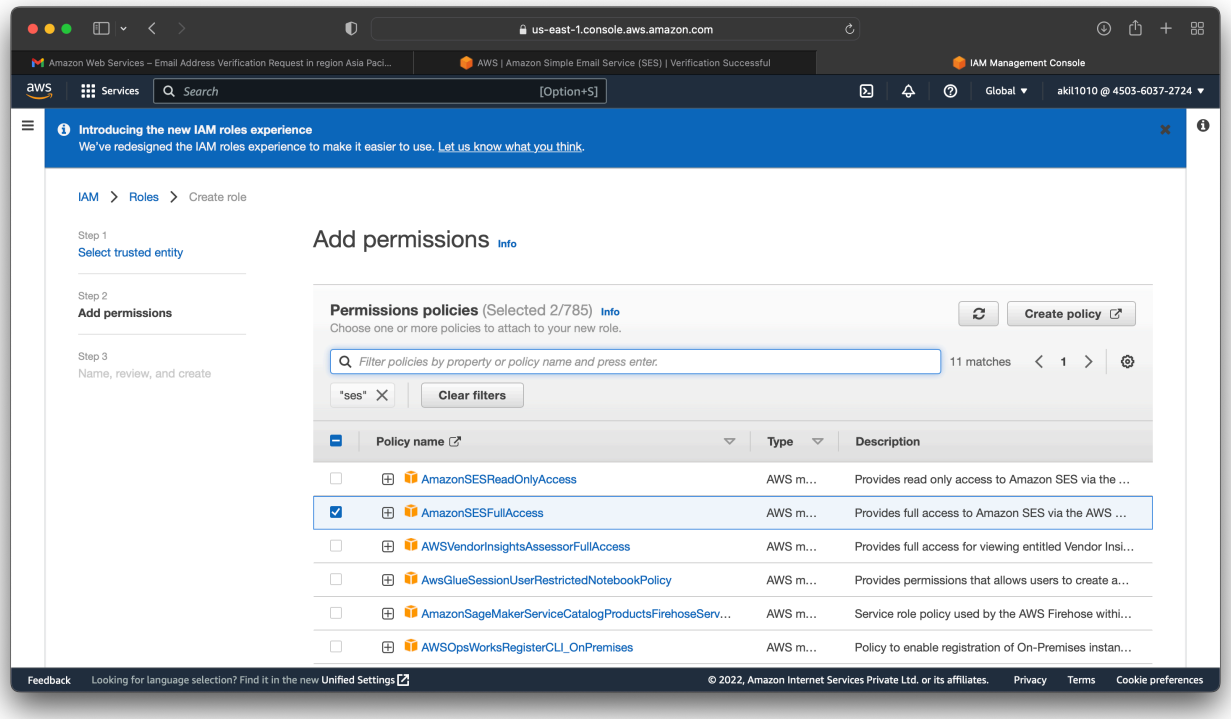
1. Go to AWS SES (Simple email service), click on “Create Identity”. Use email address as a type and type the email address.



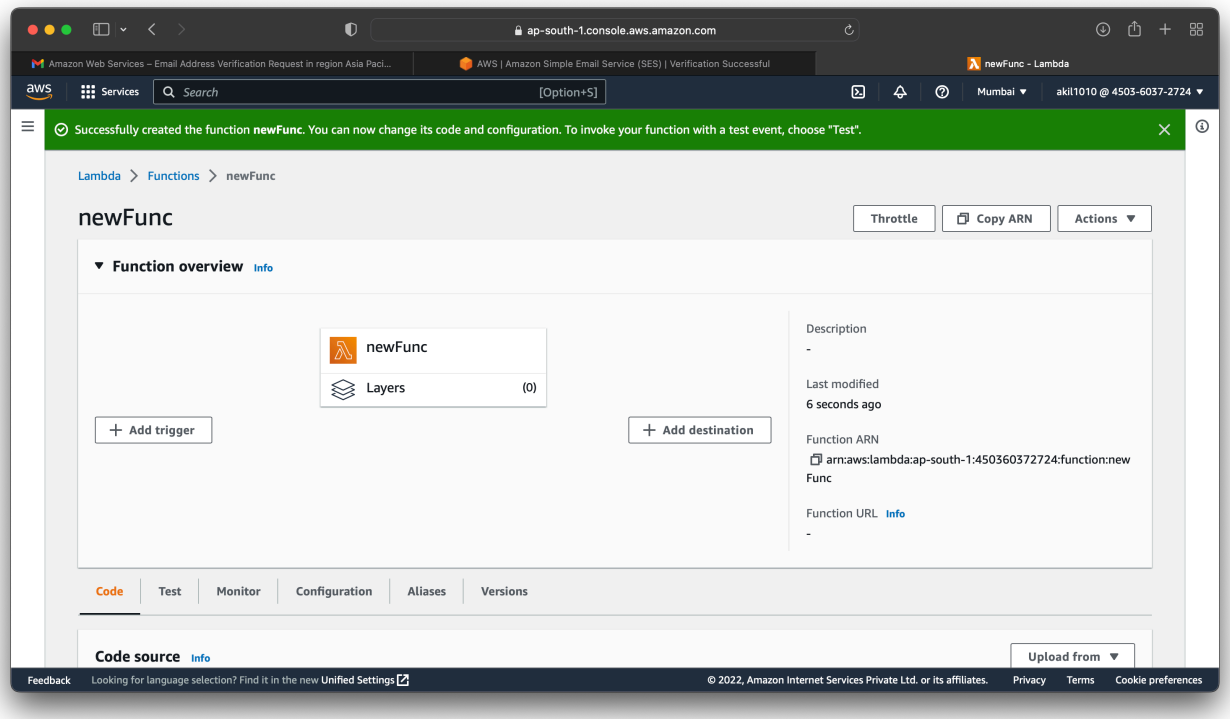
2. Verify the email address that revieved an email from aws to tell you to verify that.



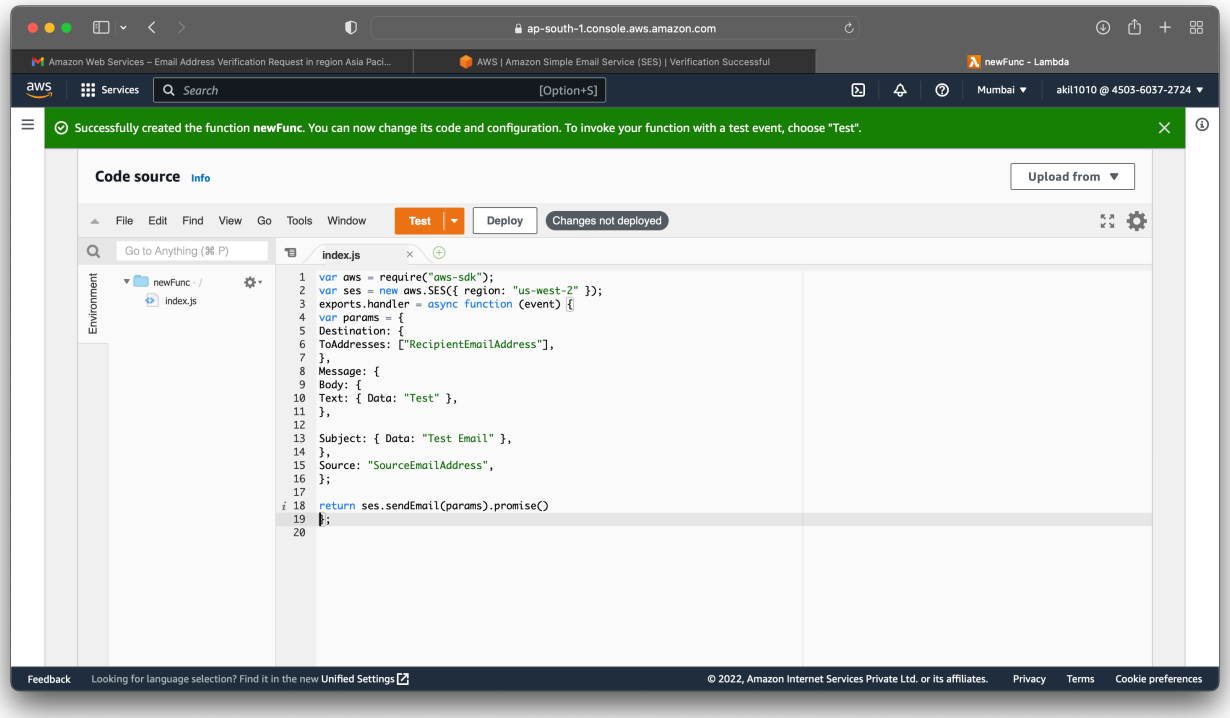
3. Create two identities (email address).
   One for sending emails and another for receiving.
4. Create an IAM role.
   Give Use case as lambda and give full access to cloudwatch, SES.



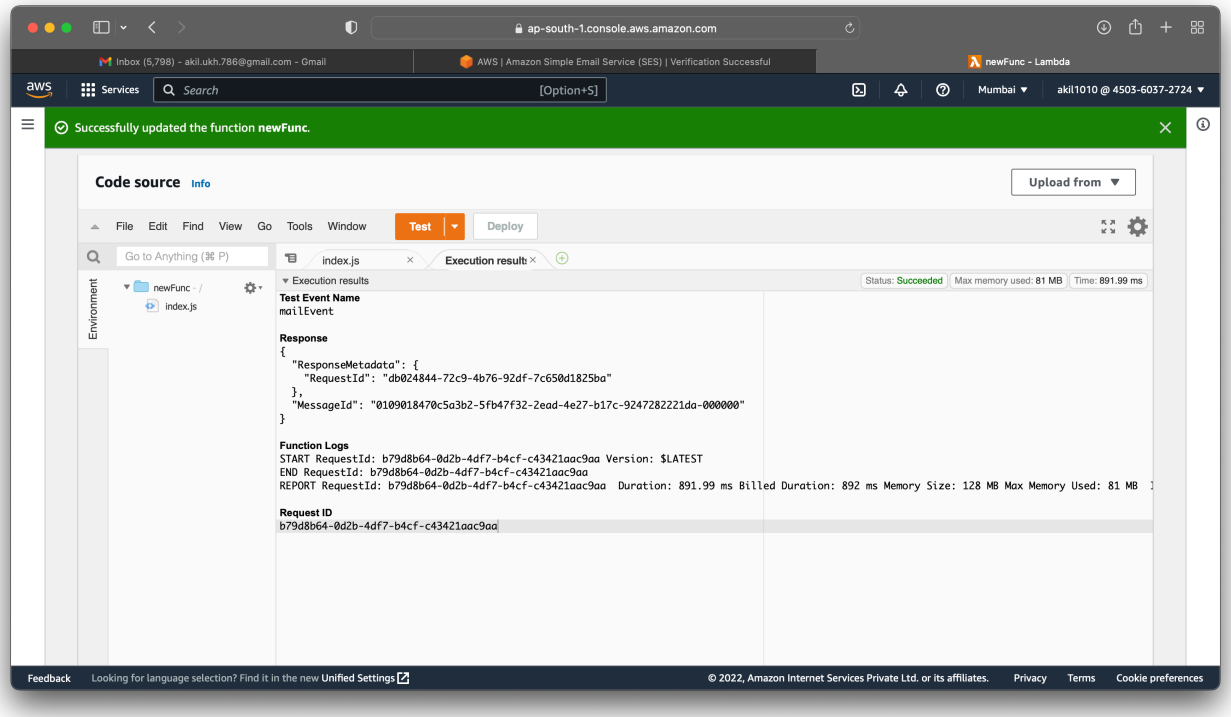
5. Go to Lambda Service, create a lambda function.
Give name, runtime as NodeJS, execution role as created IAM role previously.



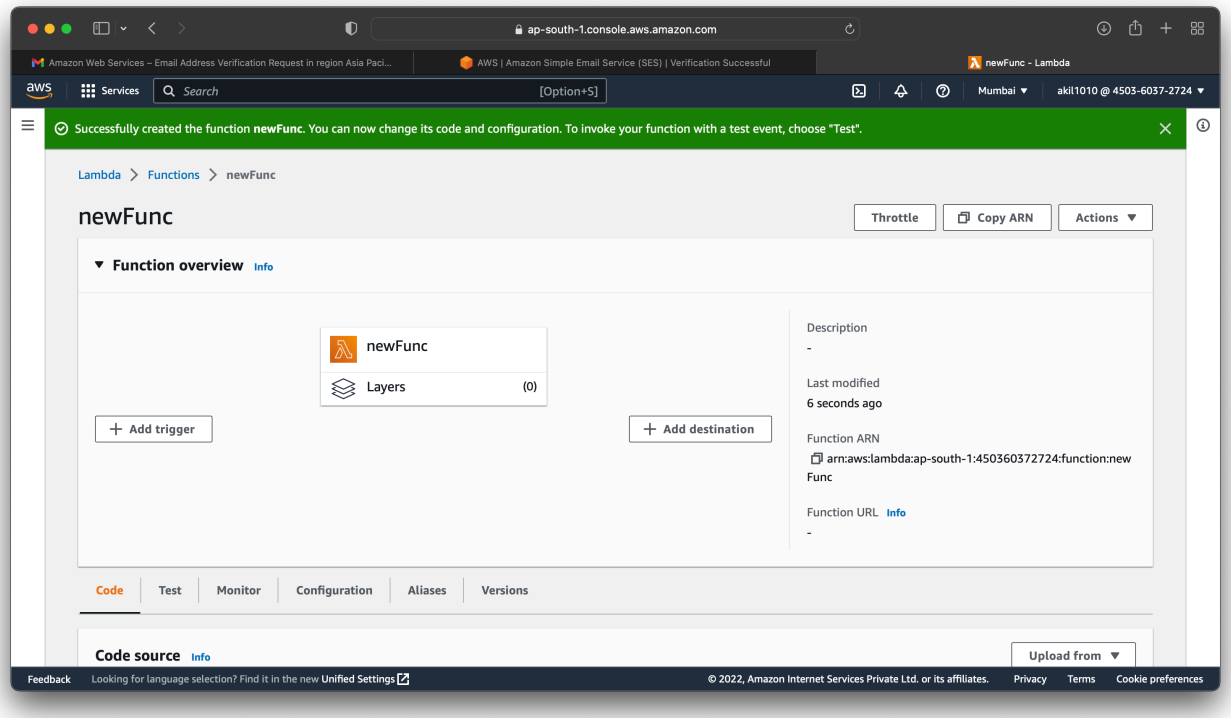
6. Use this template for the code:



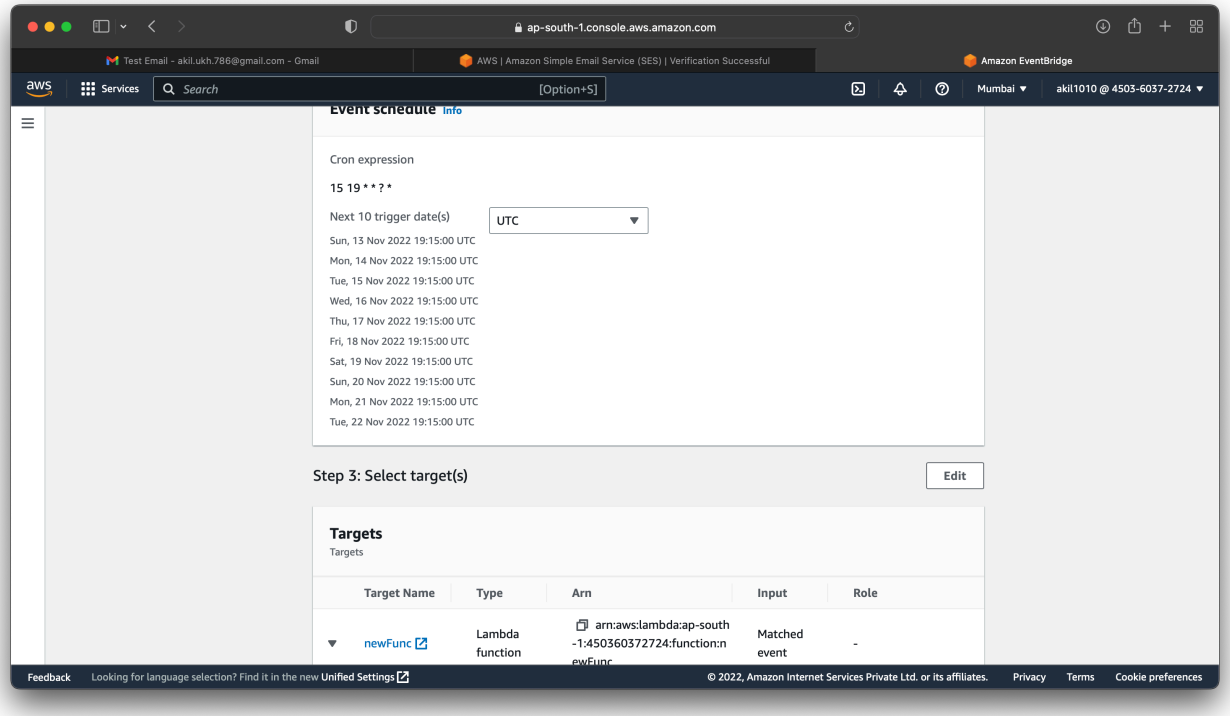

```
var aws = require("aws-sdk");
var ses = new aws.SES({ region: "us-west-2" });
exports.handler = async function (event) {
var params = {
Destination: {
ToAddresses: ["RecipientEmailAddress"],
},
Message: {
Body: {
Text: { Data: "Test" },
},

Subject: { Data: "Test Email" },
},
Source: "SourceEmailAddress",
};

return ses.sendEmail(params).promise()
};
```



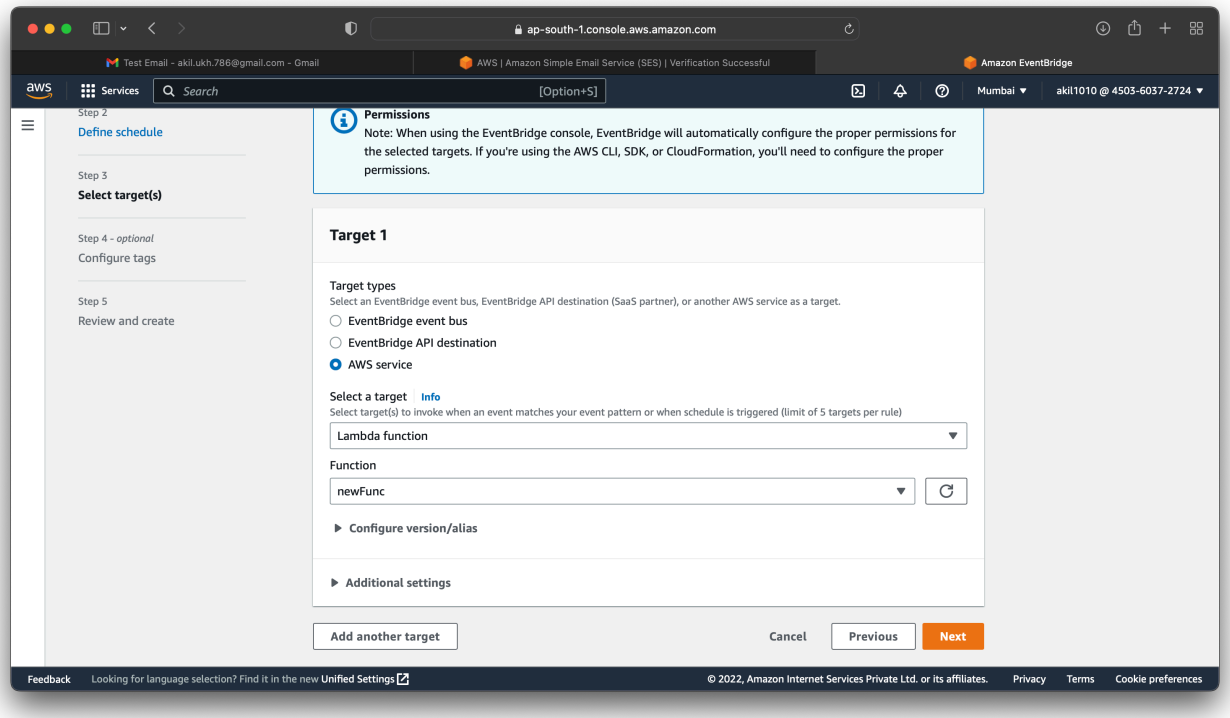
7. Click on Deploy and then TEST, you wil receive the message in your mentioned emails.



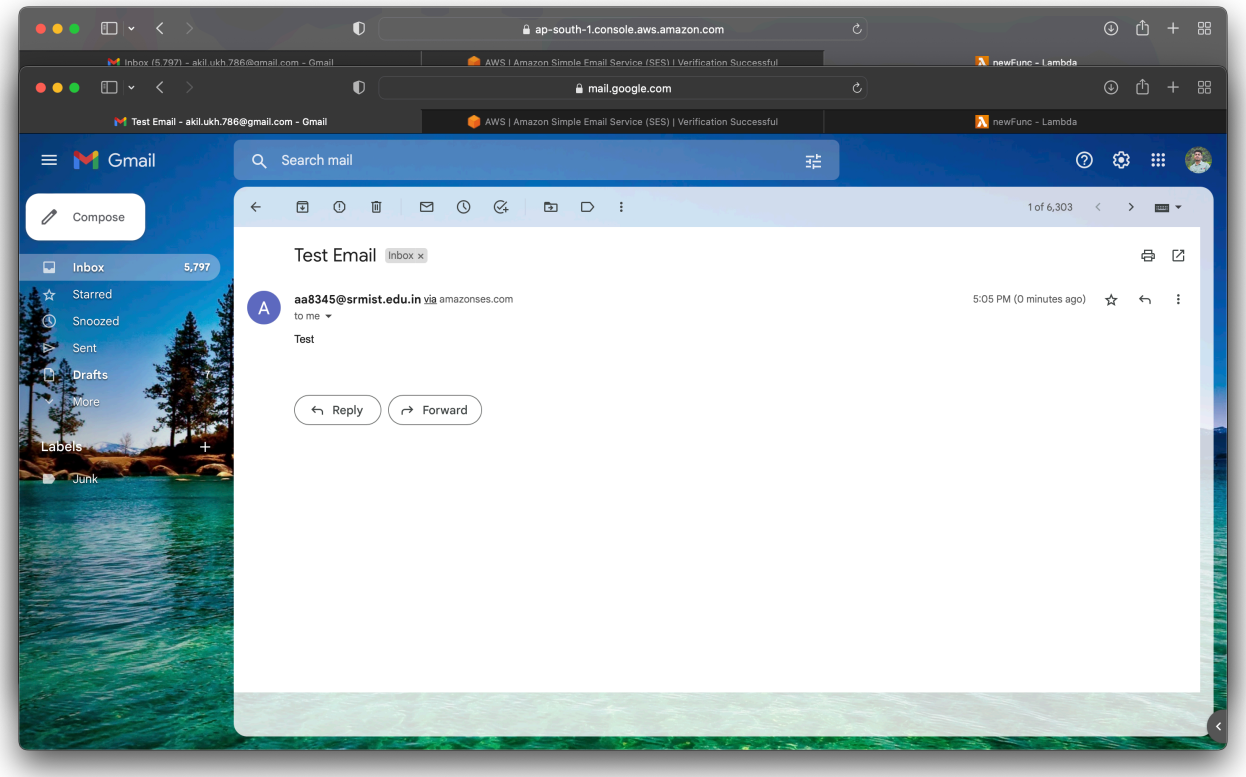
8. For scheduled daily report, go to AWS Cloudwatch , navigate to rule section (now called as eventBridge).
9. Create rule- give name, ruletype- schedule, use cron expression for schedule pattern .
   For e.g. : 15 19 * * ? *



10.Select Targets as lambda function, and use the above defined function.



11. Go to monitoring in Lambda service, click on View logs in cloudWatch and check your mail inbox .



Result:

Hence, the lambda function is created and also implemented using SES, CloudWatch to schedule daily reports.