### Creating a lambda function in AWS to email daily reports

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**Aim:** Automate Sending Emails at a Specific Time with AWS Lambda, CloudWatch and SES

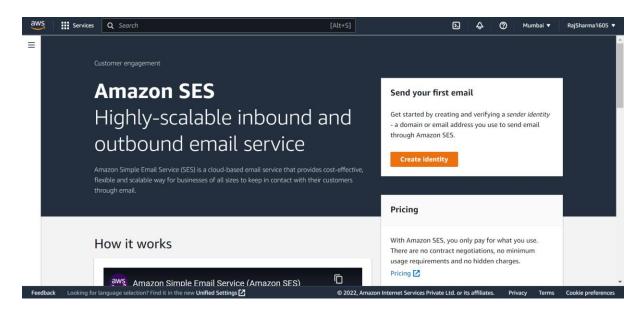
**Pre-requisites:** AWS Console, Amazon SES, Amazon Lambda, Amazon CloudWatch.

#### **Procedure:**

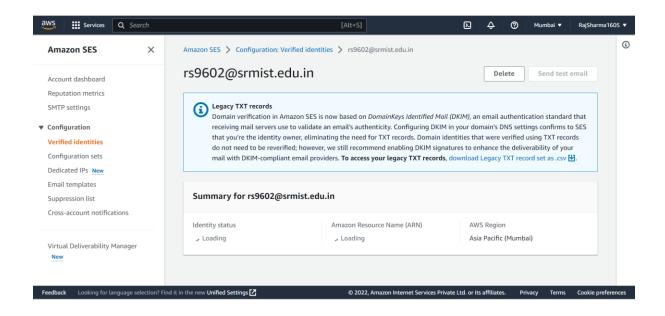
We are going automate sending email to a person or a group of people. AWS **Cloudwatch** is used to setup a schedule to trigger AWS **Lambda** function and then its going to use AWS **SES** (**Simple Email Service**) to send out emails to people.

#### Steps:

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



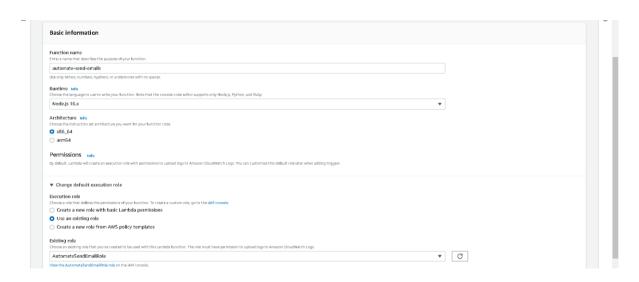
2. Verify the email address that reviewed an email from aws to tell you to verify that.



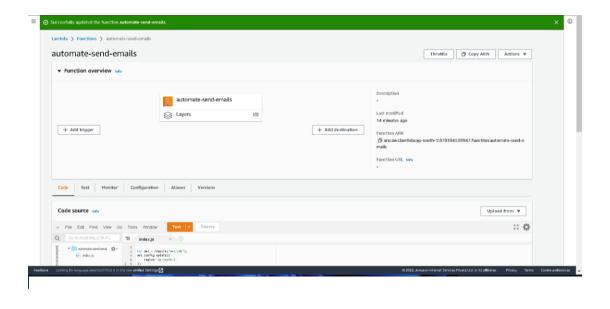
- 3. Create two identities (email address).

  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.

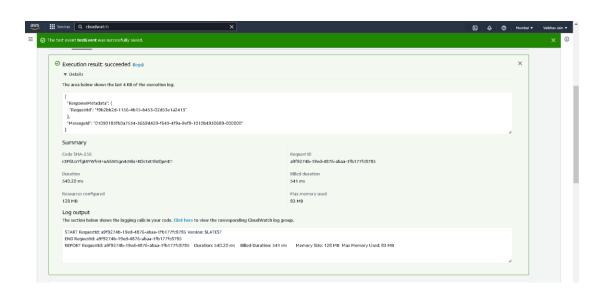


6. Use this template for the code:

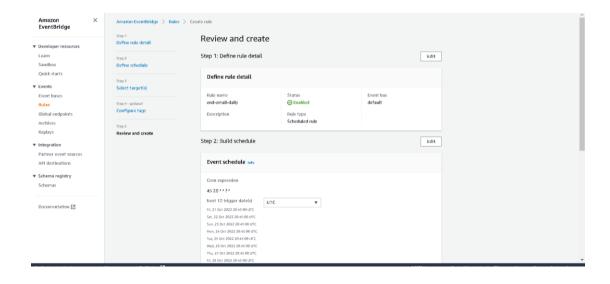


```
1)
2) var aws = require("aws-sdk");
3) var ses = new aws.SES({ region: "us-west-2" });
4) exports.handler = async function (event) {
5) var params = {
6) Destination: {
7    ToAddresses: ["RecipientEmailAddress"],
8) },
9) Message: {
10) Body: {
11) Text: { Data: "Test" },
12) },
13)
14) Subject: { Data: "Test Email" },
15) },
16) Source: "SourceEmailAddress",
17) };
18)
19) return ses.sendEmail(params).promise()
20) };
```

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

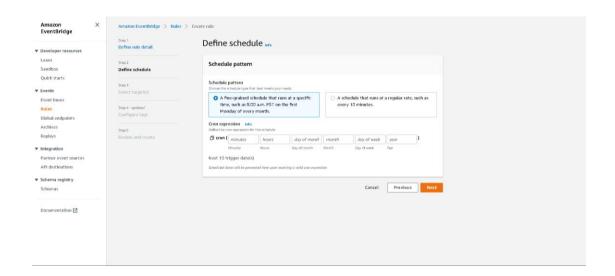


8. For scheduled daily report, go to AWS Cloudwatch , navigate to rule section (now called as eventBridge).

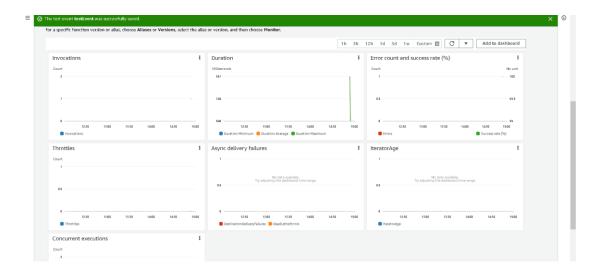


9. Create rule- give name, ruletype- schedule, use cron expression for schedule pattern .

For e.g.: 15 19 \* \* ? \*

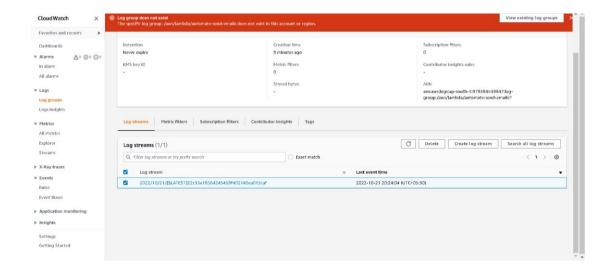


- 10. Select Targets as lambda function, and use the above defined function.
- 11.Go to monitoring in Lambda service, click on View logs in cloudWatch and check your mail inbox .



# **Result:**

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



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