Experiment: 7

Title: 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

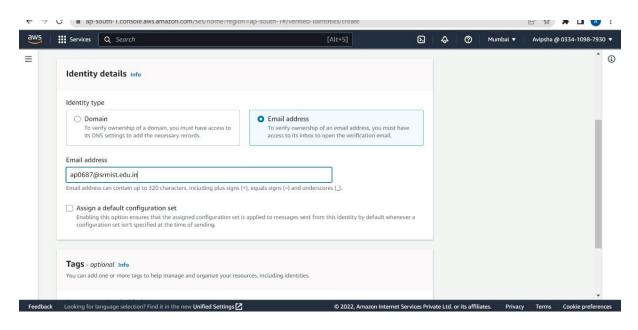
Pre-requisites: AWS Console, Amazon SES, Amazon Lambda, Amazon CloudWatch.

Procedure:

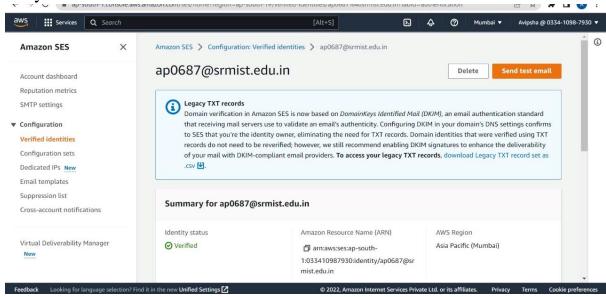
We are going automate sending email to a person or a group of people. AWS **Cloudwatch** is used to setup a schedule to trigger AWS **Lambda** function and then its going to use AWS **SES** (**Simple Email Service**) to send out emails to people.

Steps:

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

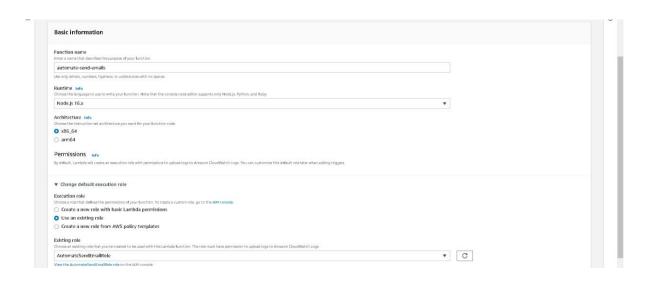


2. Verify the email address that revieved an email from aws to tell you to verify that.



- 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.
- 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:

```
Code Source w/s

Code Test Monitor Configuration Aliase Versions

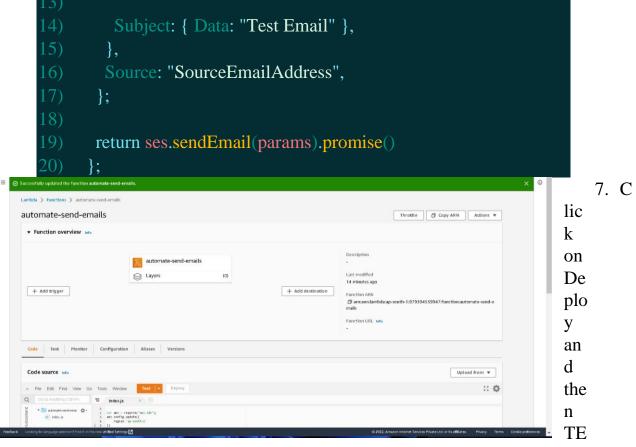
Code Source w/s

File Edit Find View Go Tools Window Test II Deploy

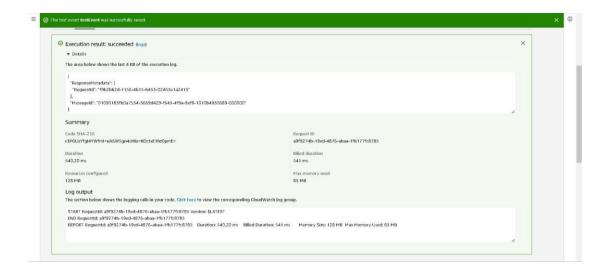
Q Got to Ambronic Code Figuration

(*) insect I we see the configuration of the conf
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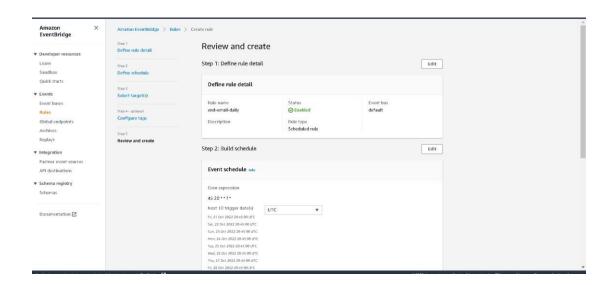
```
1)
2)     var aws = require("aws-sdk");
3)     var ses = new aws.SES({ region: "us-west-2" });
4)     exports.handler = async function (event) {
5)     var params = {
6)         Destination: {
7)         ToAddresses: ["RecipientEmailAddress"],
8)      },
9)         Message: {
10)         Body: {
11)         Text: { Data: "Test" },
```



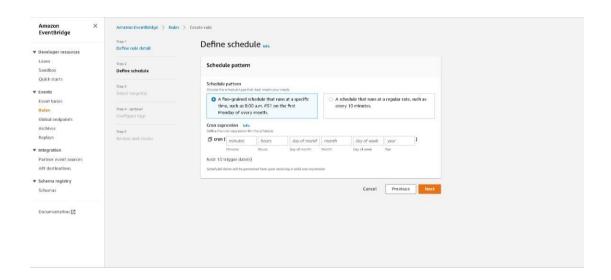
ST, you wil receive the message in your mentioned emails.



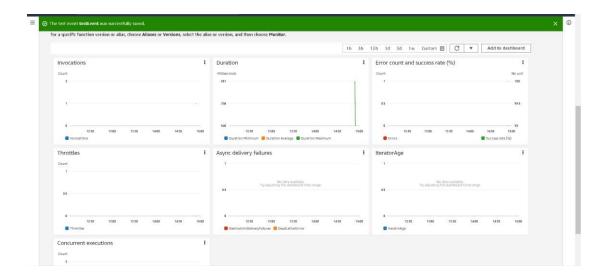
8. For scheduled daily report, go to AWS Cloudwatch, navigate to rule section (now called as eventBridge).

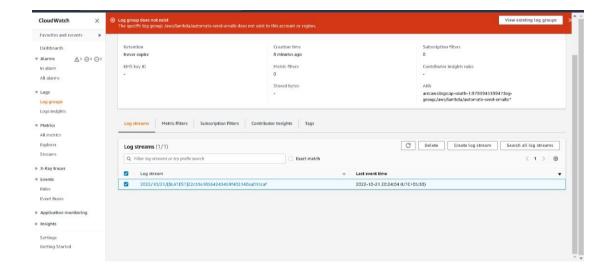


9. Create rule- give name, ruletype- schedule, use cron expression for schedule pattern . For e.g. : 15 19 * * ? *



- 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.