

Activity 5 - Working with AWS Lambda

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IFT 562: Cloud Security & Operations for IT

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Figure 1

A screenshot of create layer page.

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/layer

aws Services Search [Option+S]

Menu

Description - *optional*

PyMySQL 0.9.3 library modules (Spurthy Mutturaj)

☒ Upload a .zip file
☐ Upload a file from Amazon S3

Upload

pymysql-0.9.3.zip
117.78 KB

For files larger than 10 MB, consider uploading using Amazon S3.

Compatible architectures - *optional* [Info](#)

Choose the compatible instruction set architectures for your layer.

☒ x86_64
☐ arm64

Compatible runtimes - *optional* [Info](#)

Choose up to 15 runtimes.

Runtimes

Python 3.7

License - *optional* [Info](#)

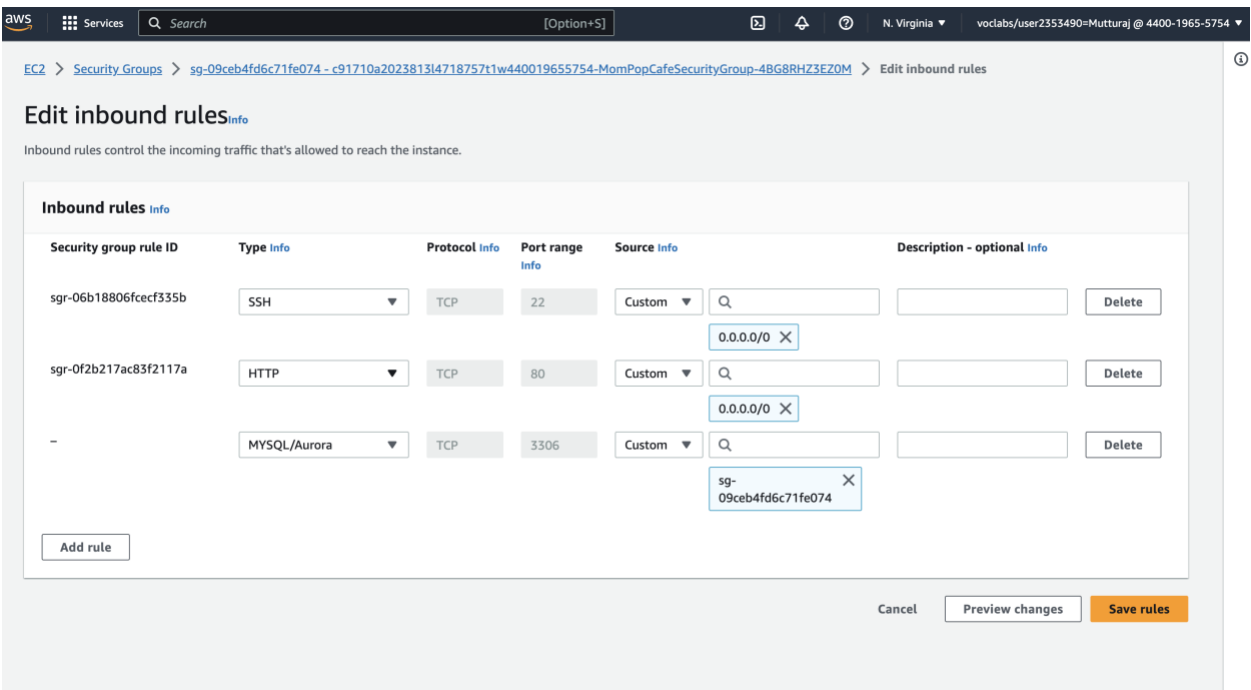
Cancel Create

CloudShell Feedback Language

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Figure 2

Screenshot of the changes made.



Note. Added a new rule to accept MYSQL traffic on port 3306.

Figure 3

Screenshot of email confirmation.

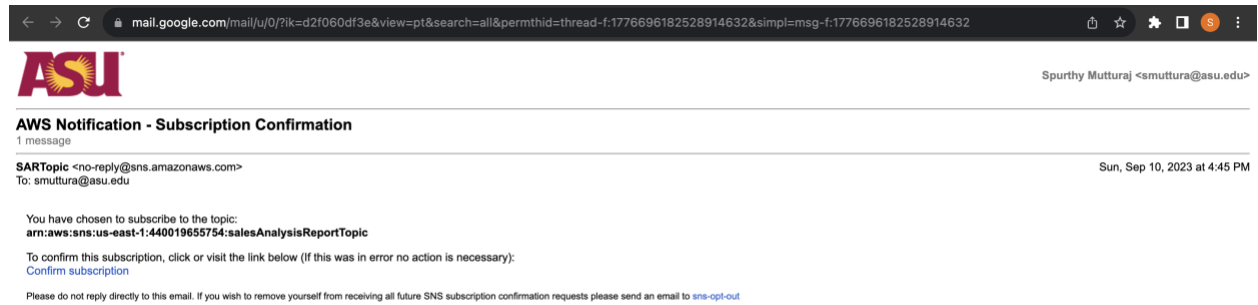


Figure 4

Screenshot of salesAnalysisReport function,.

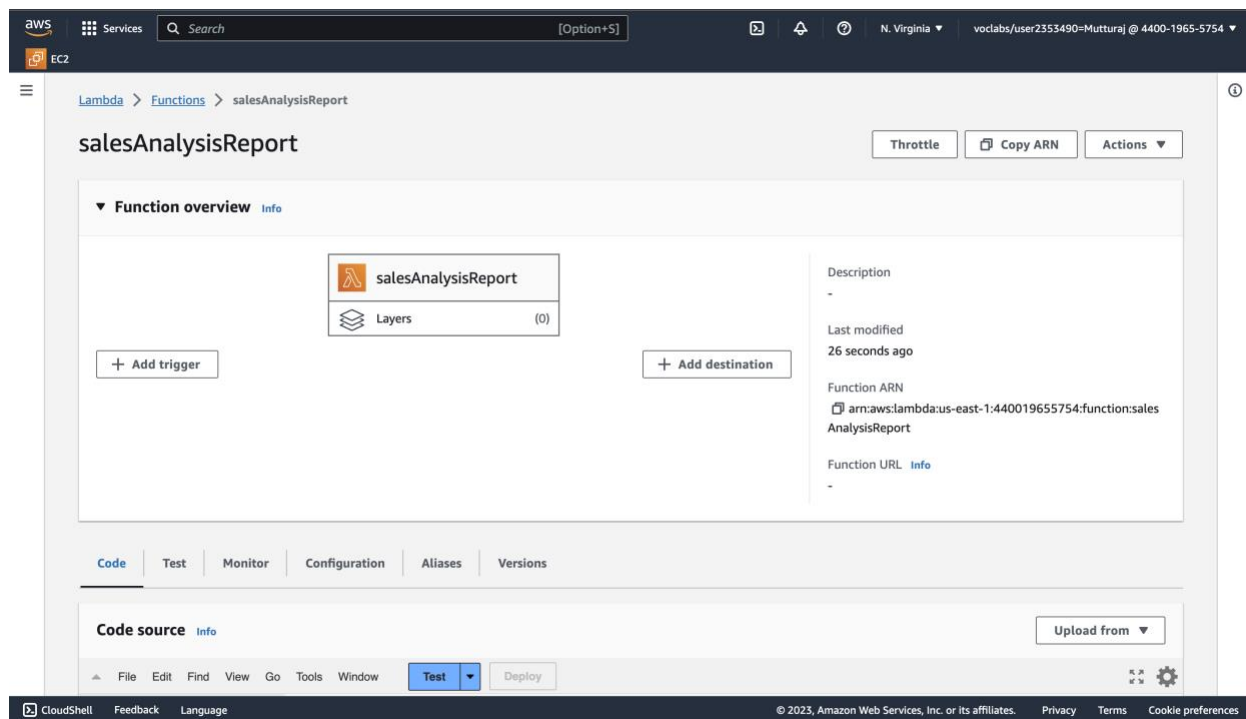


Figure 5

Screenshot of email denoting “Daily Sales Analysis Report”.

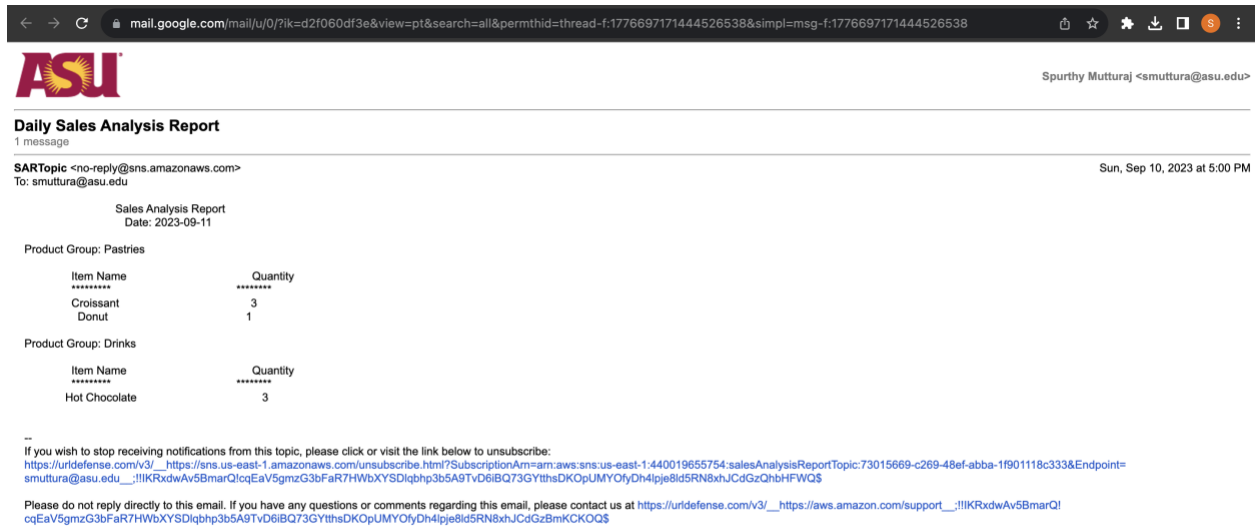


Figure 6

Screenshot of EventBridge rule

The screenshot shows the AWS EventBridge console in the 'us-east-1' region. The 'Create a new rule' form is displayed with the following fields and options:

- Rule name:** salesAnalysisReportDailyTrigger
- Rule description:** Triggers report generation on a daily basis
- Rule type:** Schedule expression (selected)
- Schedule expression:** cron(00 3 ? * MON-SAT *)

The console also shows a note about permissions: 'Lambda will add the necessary permissions for Amazon EventBridge (CloudWatch Events) to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.'

Note. I set 00 3 to because 3 AM UTC is 8 PM MST (7 hours behind UTC). I have considered the email to be sent at 8PM MST.