Module 13 – Guided Lab 2: Implementing a Serverless Architecture on AWS

Lab-09

Aaryan Bhati

104189110

Lab session: Friday 4:30-6:30

This lab demonstrates how to trigger a Lambda function when a file is uploaded to Amazon Simple Storage Service (Amazon S3). The file will be loaded into an Amazon DynamoDB table. The data will be available for you to view on a dashboard page that retrieves the data directly from DynamoDB. This solution does not use Amazon Elastic Compute Cloud (Amazon EC2). It is a serverless solution that automatically scales when it is used. It also incurs little cost when it is in use. When it is idle, there is practically no cost because will you only be billed for data storage.

Task 1:: Created a Lambda function to load data

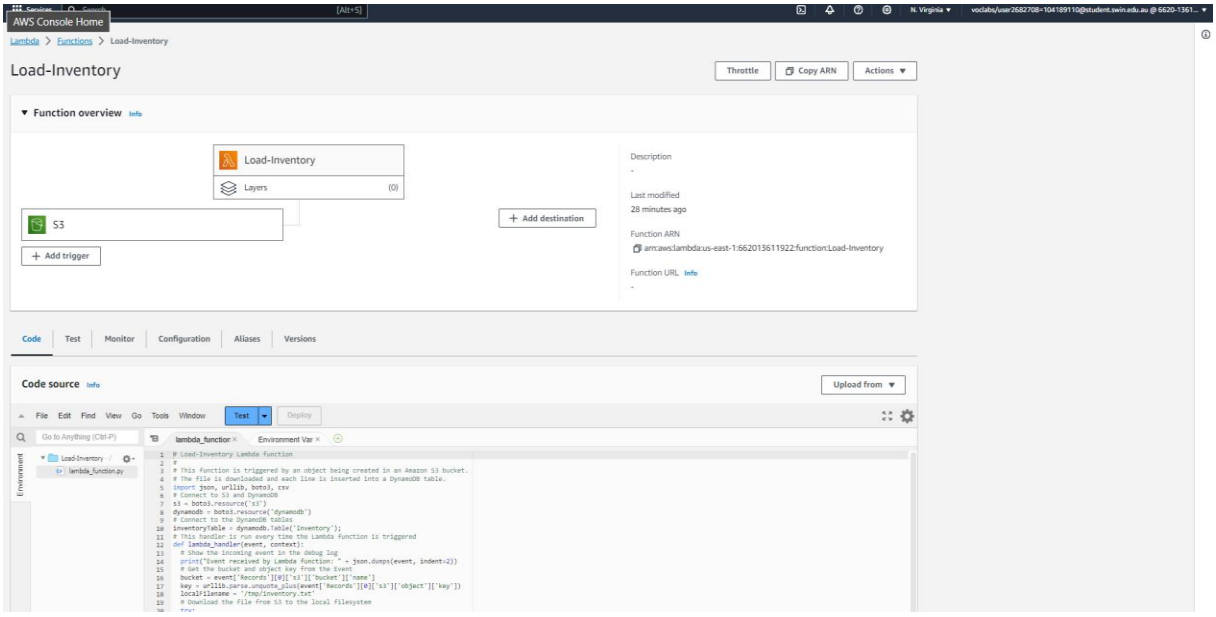

Fig 1.1 created a lambda function to load data to S3 bucket

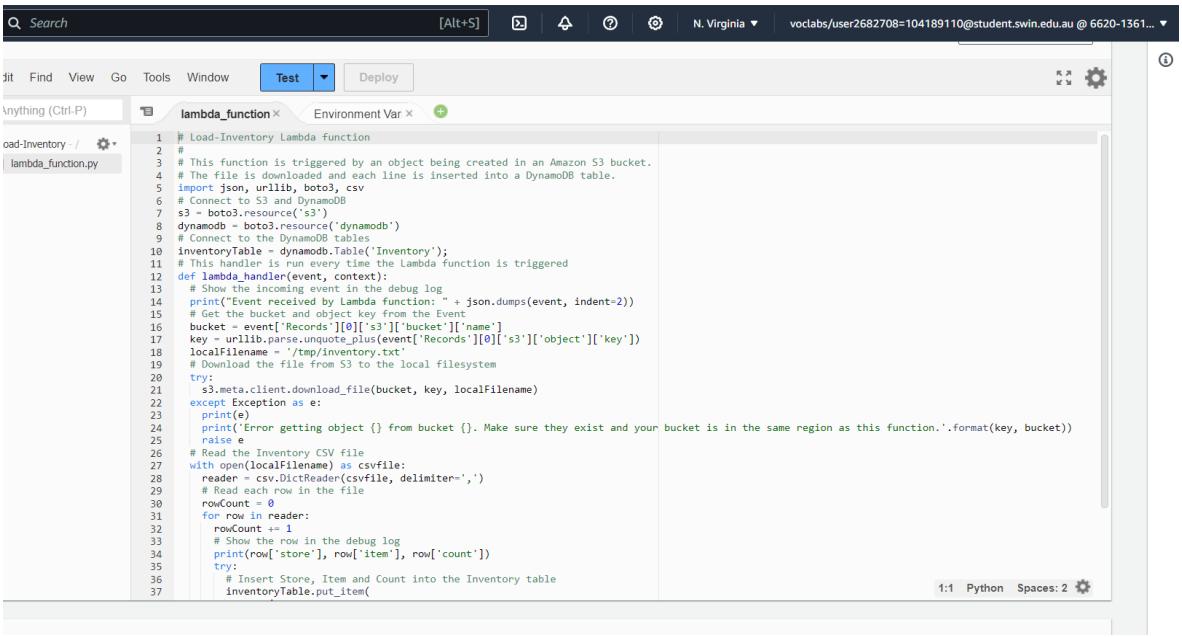

Fig 1.2 Deployed changed to code source

Task 2:: Configuring an Amazon S3 event

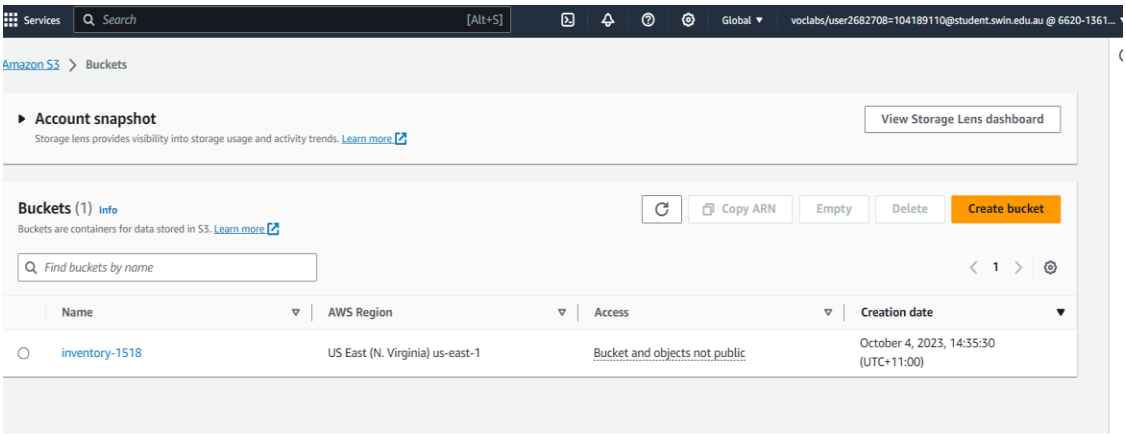

Fig 2.1 Bucket created

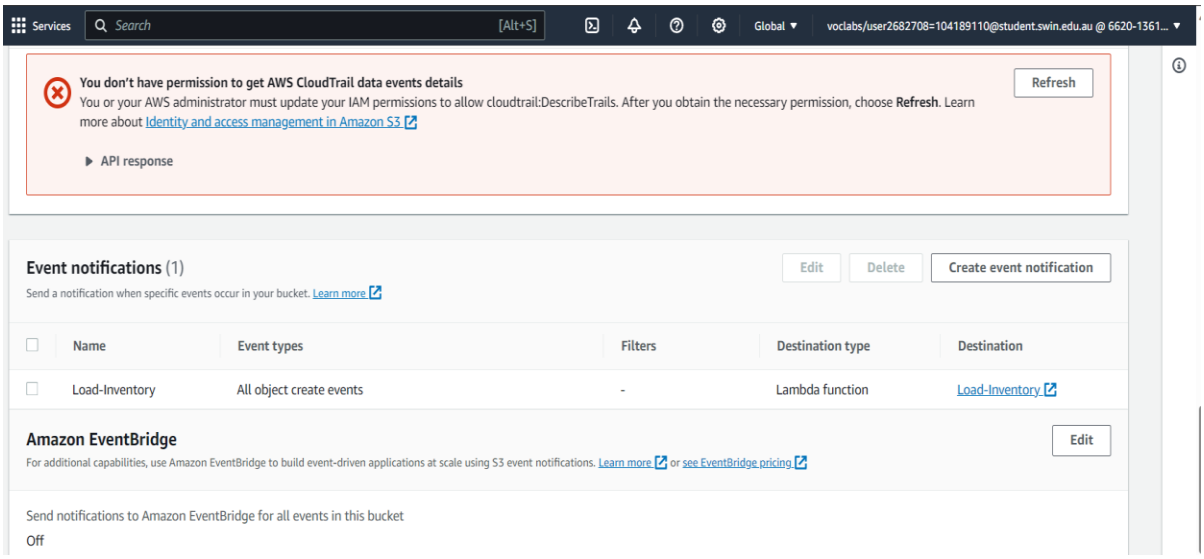

Fig 2.2 event notification created for object creation in S3 bucket

Task 3:: Testing the loading process

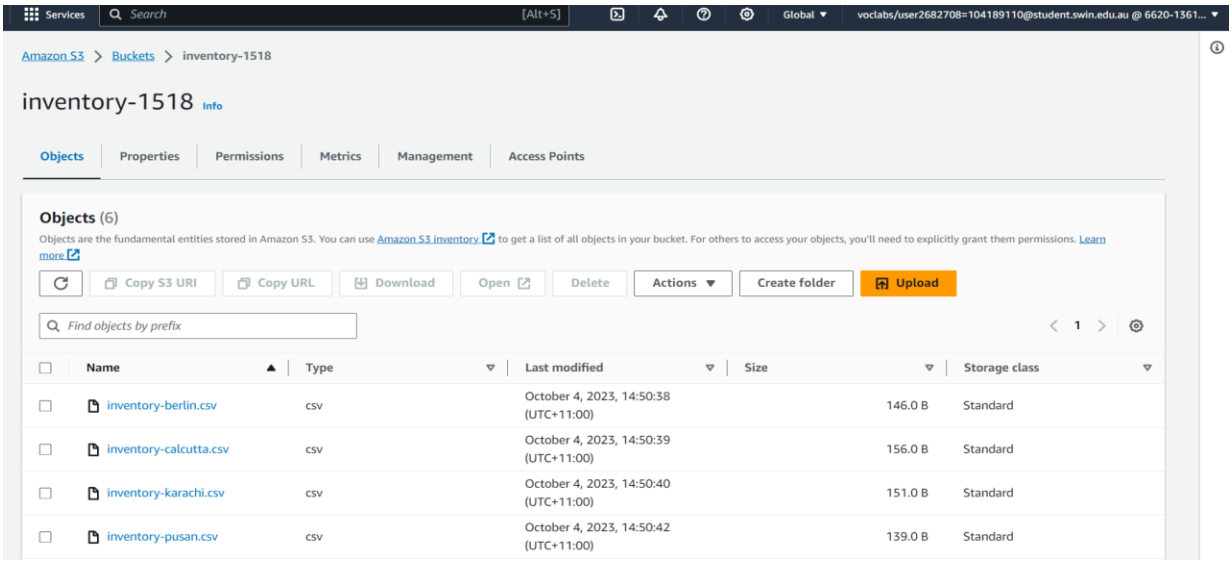

Fig 3.1 S3 bucket with the added files as provided to us

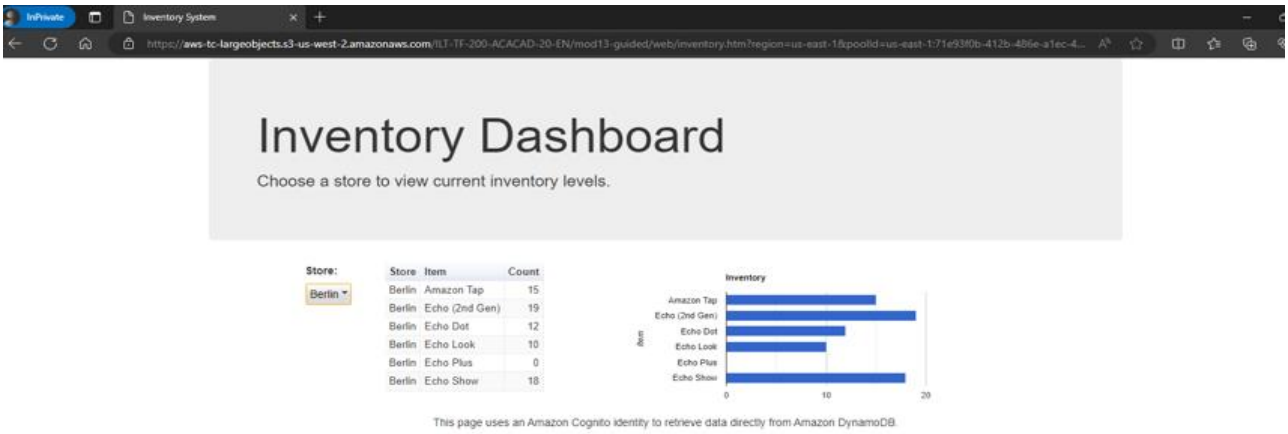

Fig 3.2 Display the inventory data that was loaded into the bucket

Task 4: Configuring notifications

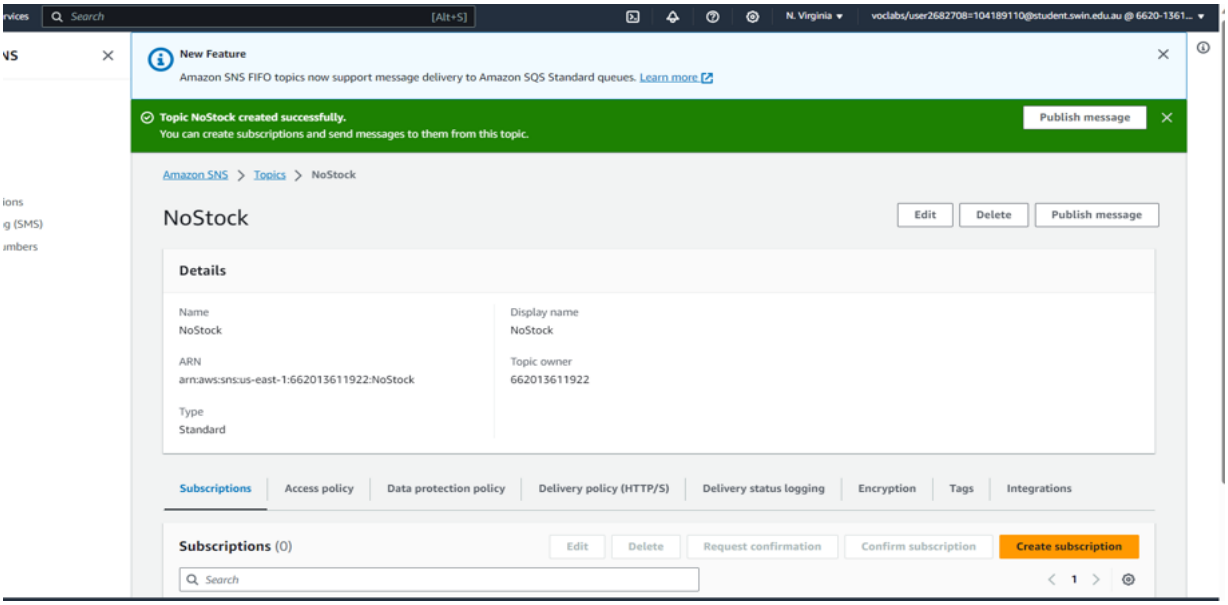

Fig 4.1 Simple notification created subscription created

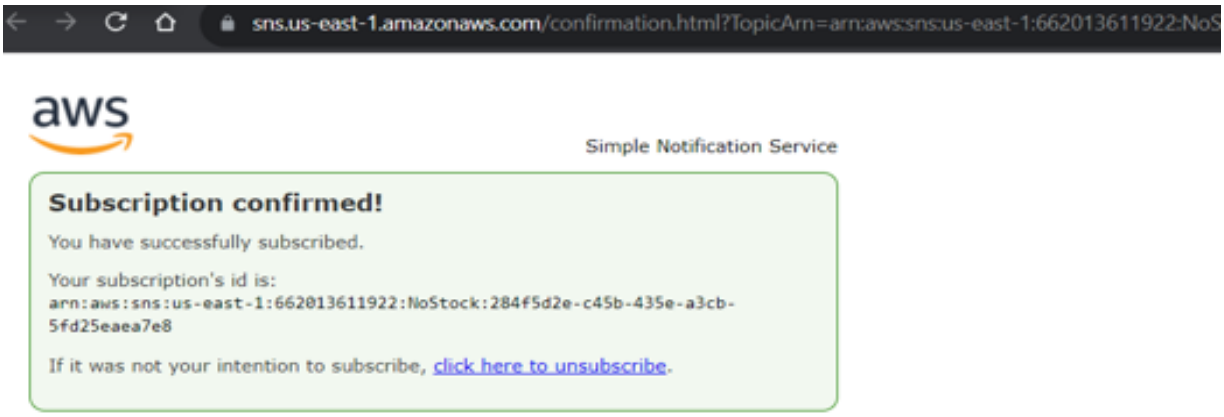

*Fig 4.2 Notifications for email subscription to confirm subscription l*ink

Task 5: Creating a Lambda function to send notifications

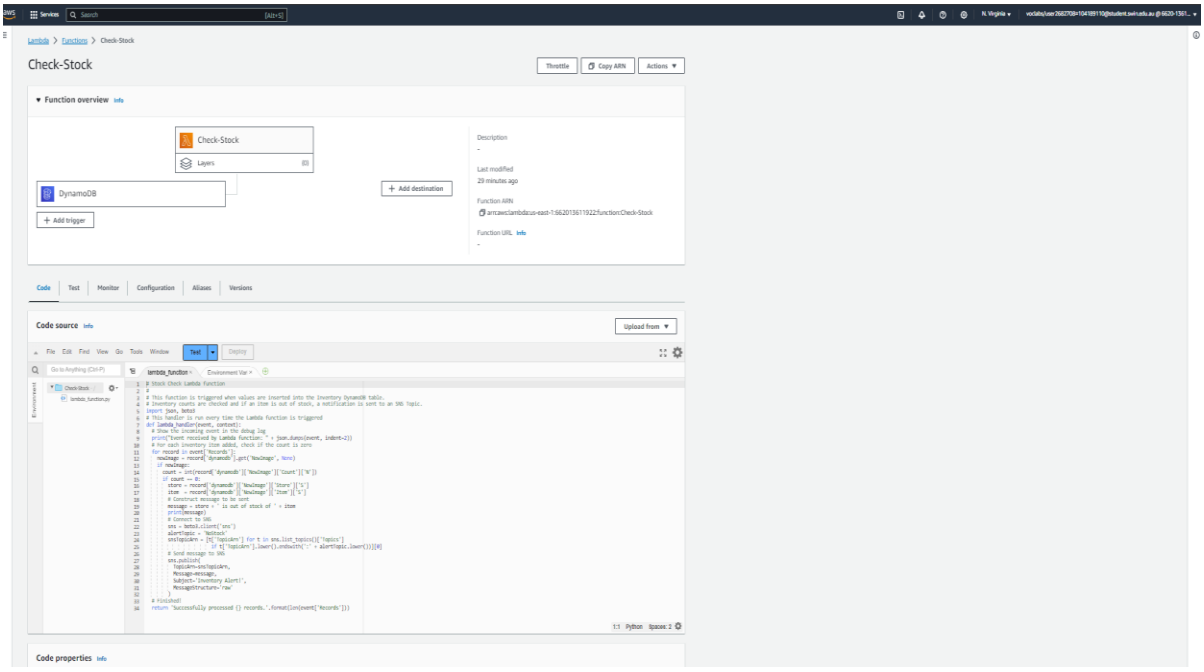

Fig 5.1 Created Lambda function that is triggered when data is loaded into the DynamoDB table

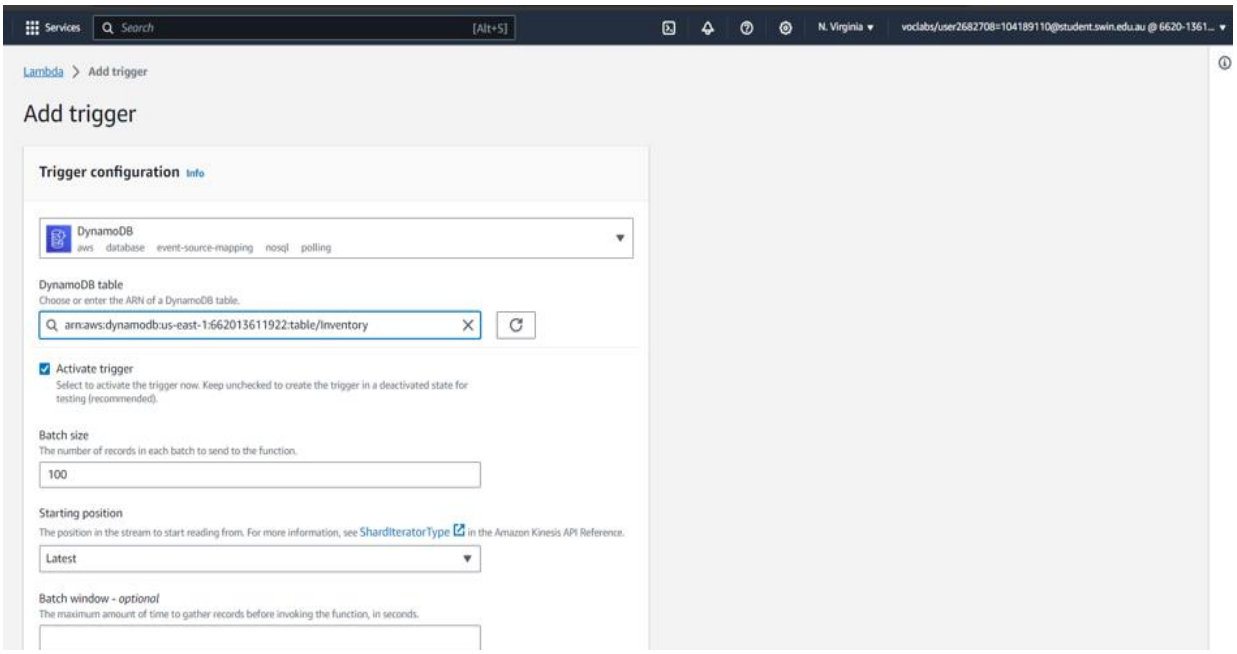

Fig 5.2 Trigger configured settings

Task 6: Testing the System

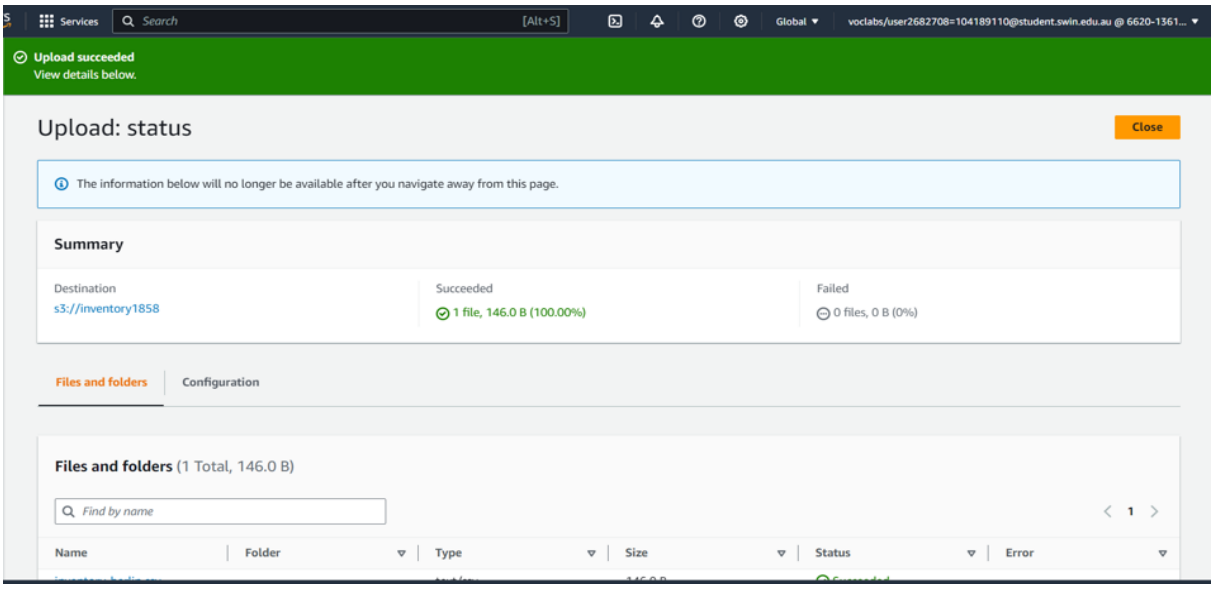

Fig 6.1 uploading excess file to receive the notification for file upload on S3

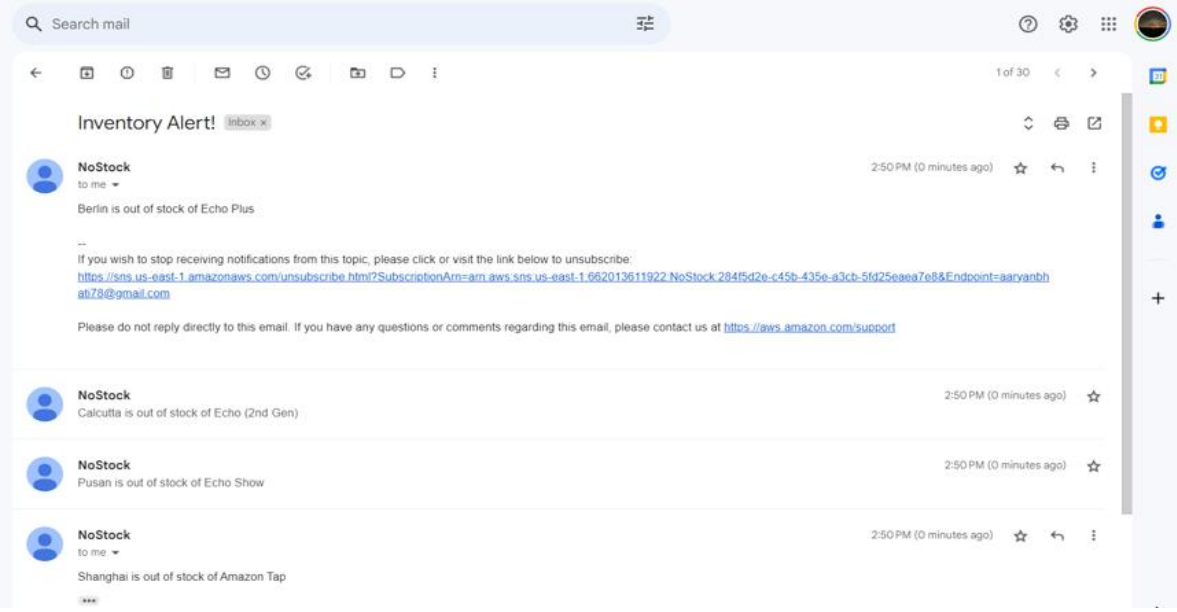

Fig 6.2 Trigger received on my email

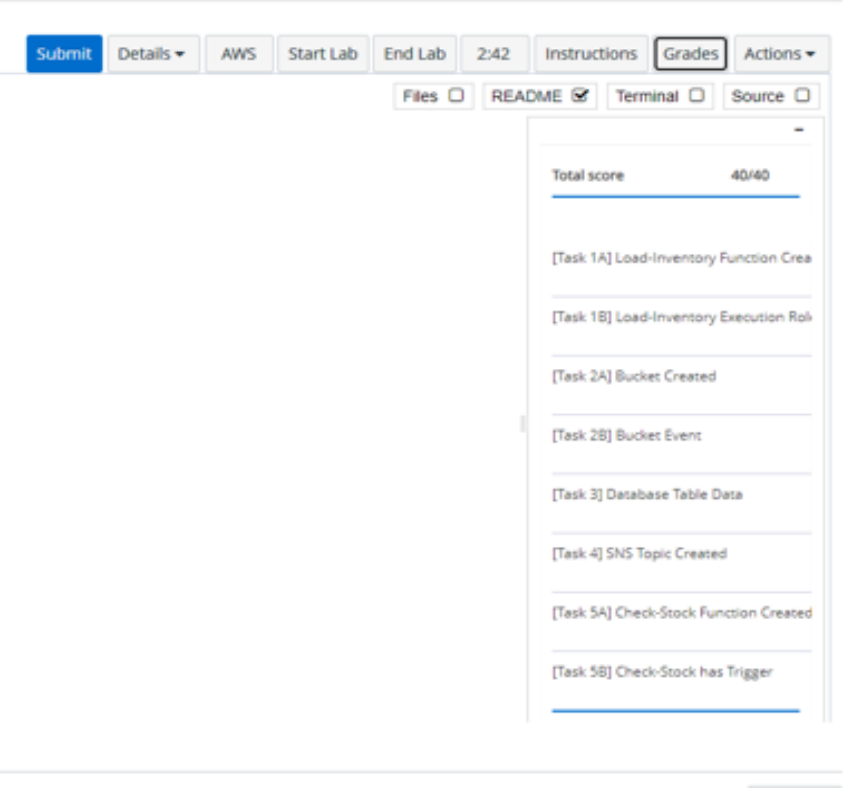

Fig 6.3 test pass as per aws