

# Week 9 – Guided Lab: Implementing a Serverless Architecture on AWS

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## Task 1: Creating a Lambda function to load data

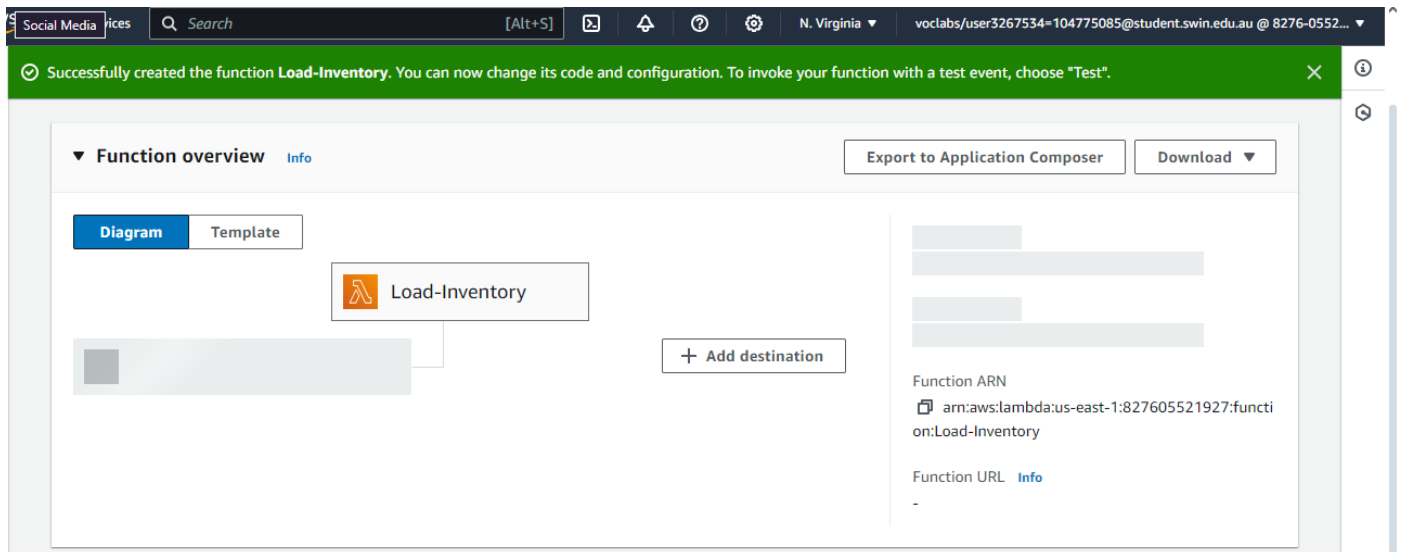


Figure 1: Create Load-Inventory Lambda Function

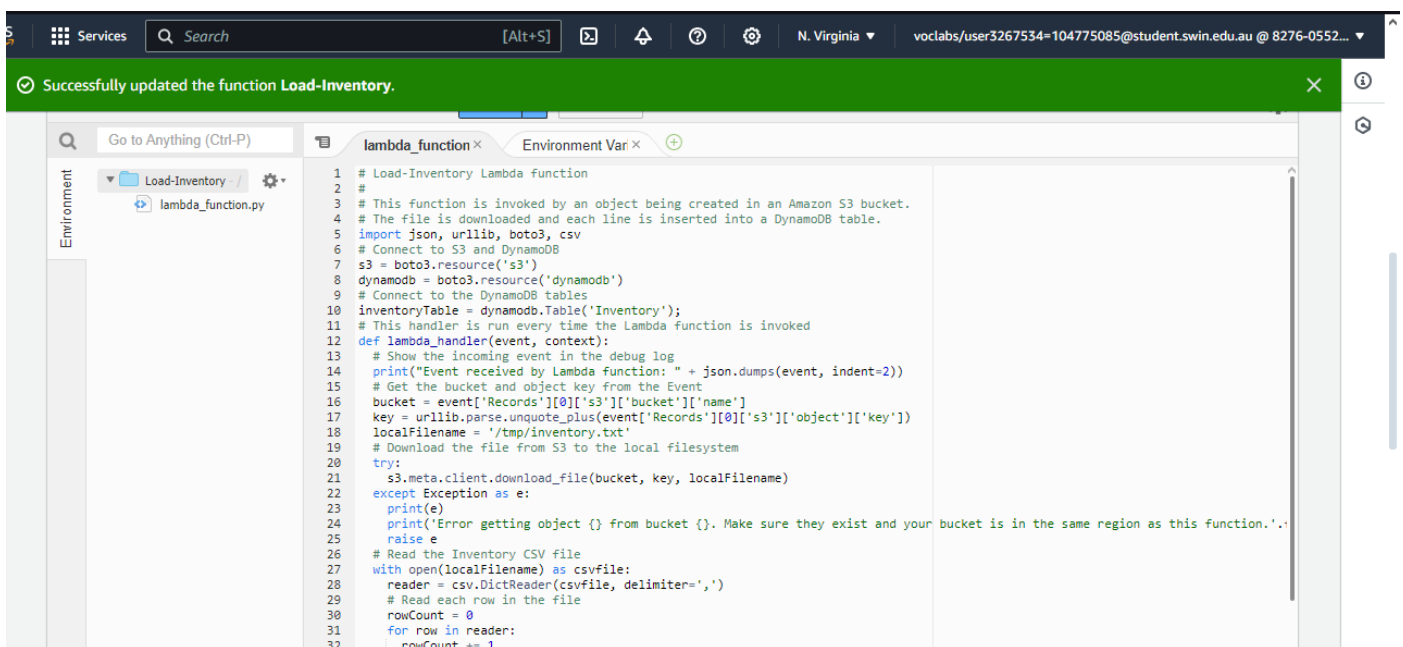


Figure 2: Update the Lambda Function

## Task 2: Configuring an Amazon S3 event

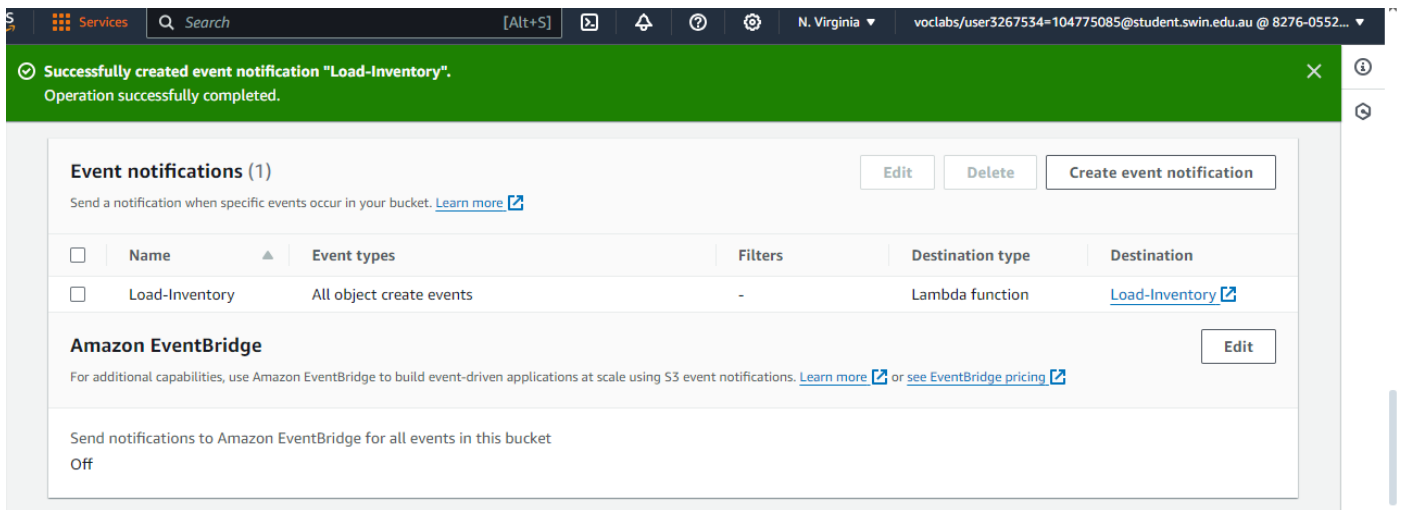


Figure 3: Add an event notification for S3 bucket

## Task 3: Testing the loading process

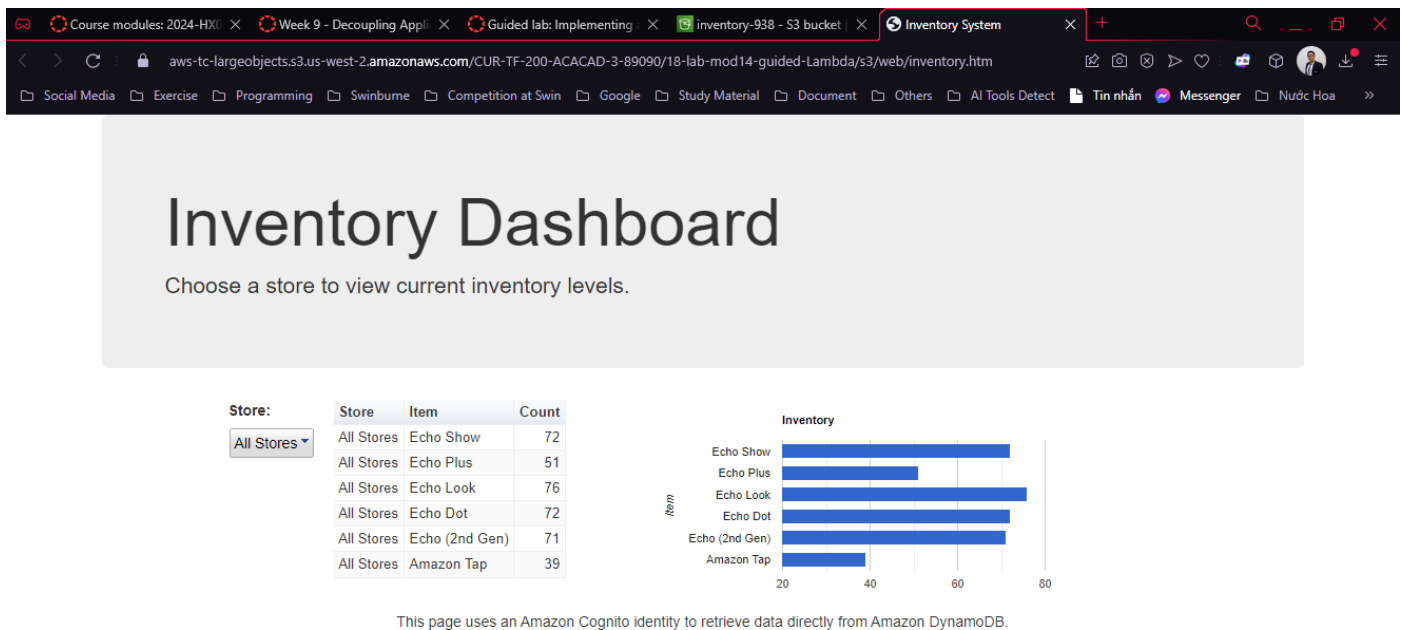


Figure 4: Inventory Dashboard.

Completed. Read capacity units consumed: 0.5

Items returned (30)

<input type="checkbox"/>	Store (String)	Item (String)	Count
<input type="checkbox"/>	<a href="#">Calcutta</a>	Amazon Tap	15
<input type="checkbox"/>	<a href="#">Calcutta</a>	Echo (2nd Gen)	0
<input type="checkbox"/>	<a href="#">Calcutta</a>	Echo Dot	7
<input type="checkbox"/>	<a href="#">Calcutta</a>	Echo Look	3
<input type="checkbox"/>	<a href="#">Calcutta</a>	Echo Plus	16
<input type="checkbox"/>	<a href="#">Calcutta</a>	Echo Show	14
<input type="checkbox"/>	<a href="#">Shanghai</a>	Amazon Tap	0

Figure 5: DynamoDB view the inventory.

## Task 4: Configuring notifications

## Task 5: Creating a Lambda function to send notifications

The trigger Inventory was successfully added to function Check-Stock. The trigger is in a disabled state.

Function overview

Diagram

Check-Stock

Layers (0)

DynamoDB

+ Add trigger

+ Add destination

Export to Application Composer

Download

Description

-

Last modified

1 minute ago

Function ARN

arn:aws:lambda:us-east-1:827605521927:function:Check-Stock

Function URL

Info

Figure 6: Create Check-Stock lambda function.

## Task 6: Testing the system

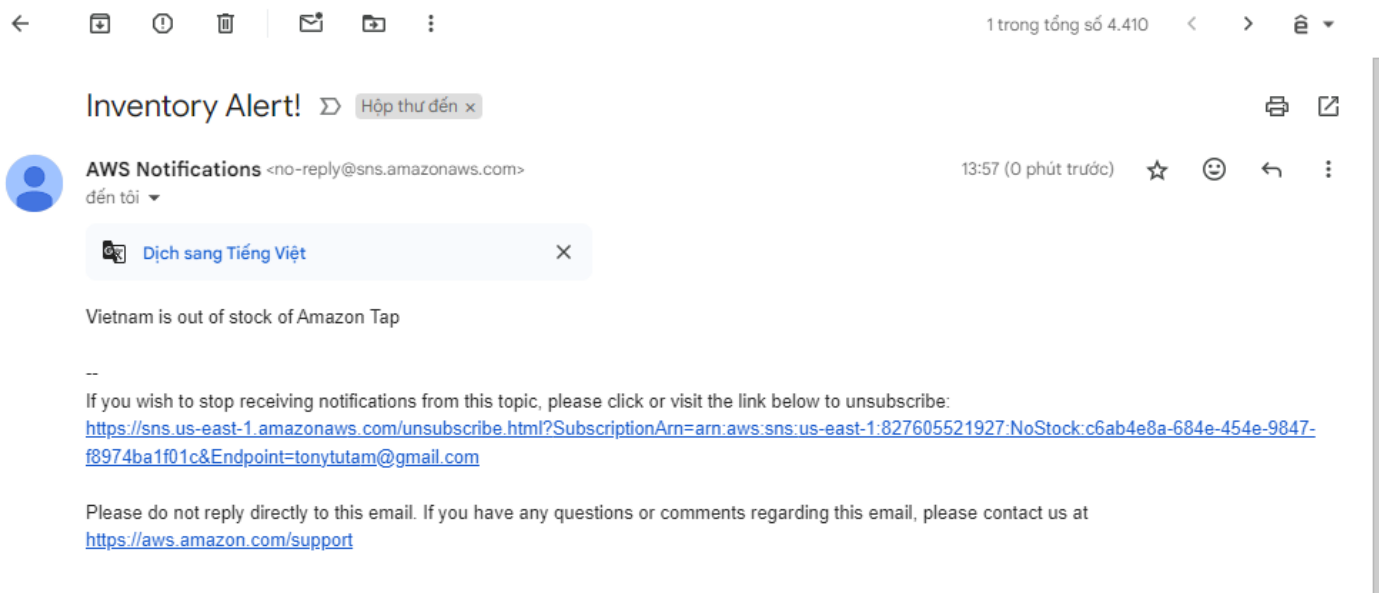


Figure 7: Email notification

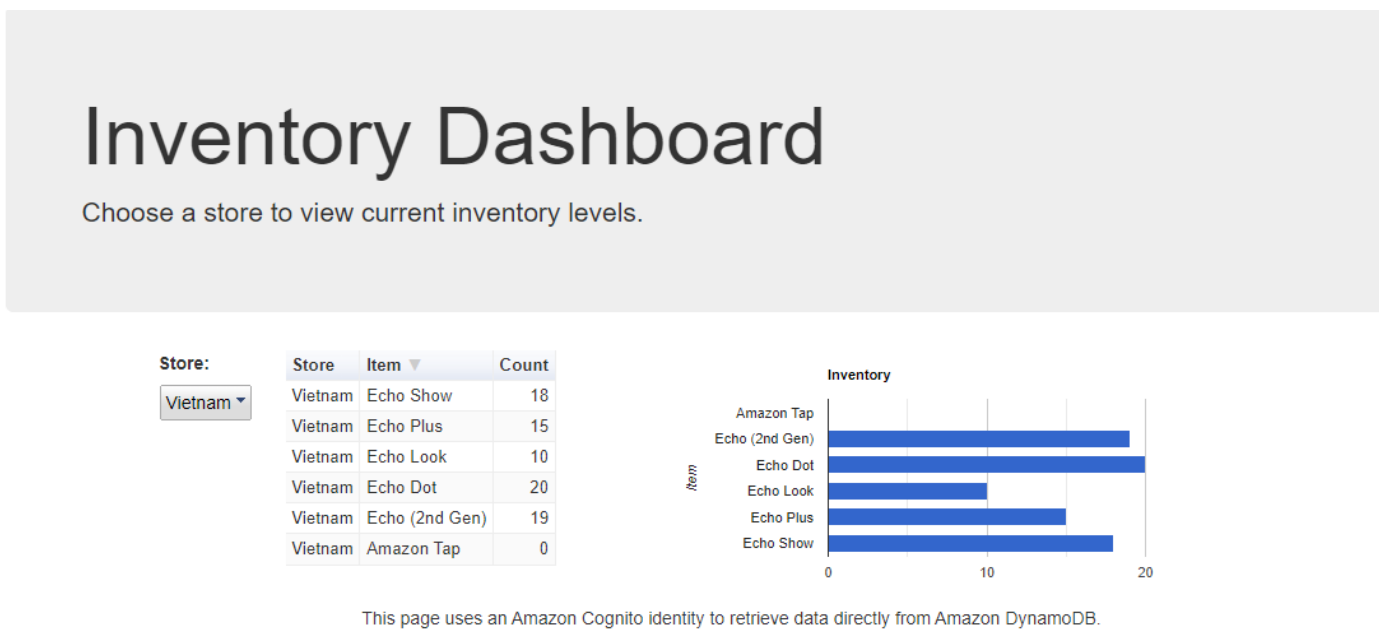


Figure 8: Inventory of Vietnam

		Submit	Submission Report	Grades
Total score		40/40		
[Task 1A] Load-Inventory Function Created		5/5		
[Task 1B] Load-Inventory Execution Role		5/5		
[Task 2A] Bucket Created		5/5		
[Task 2B] Bucket Event		5/5		
[Task 3] Database Table Data		5/5		

*Figure 9: Score after submission.*

Submission Report
X

```

Testing report - The correct Role was used for the Load-Inventory function.
Testing report - Bucket named,inventory-938,found.
Testing report - Bucket,inventory-938,was cofigured with a Lambda event.
Testing report - Records were inserted into the Inventory DynamoDB table.
Testing report - The topic NoStock was created.
Testing report - The fuction Check-Stock was found.
Testing report - A trigger was found for the Check-Stock lambda funtion.

gradeFile = /mnt/vocwork4/grader/eee_G_2990563/asn2880469_18/asn2880470_1/tmp/temp_uf_07
reportFile =/mnt/vocwork4/grader/eee_G_2990563/asn2880469_18/asn2880470_1/tmp/temp_uf_07
/mnt/vocwork4/grader/eee_G_2990563/asn2880469_18/asn2880470_1/tmp/temp_uf_07102024/.DwjH
/usr/lib/python3.7/site-packages/boto3/compat.py:82: PythonDeprecationWarning: Boto3 wil

```

*Figure 10: Submission report.*