

Module 13 Guided Lab - Imple... x Lambda x +

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

Services Search [Alt+S]

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Compute

AWS Lambda

lets you run code without thinking about servers.

You pay only for the compute time that you consume — there is no charge when your code is not running. With Lambda, you can run code for virtually any type of application or backend service, all with zero administration.

Get started

Author a Lambda function from scratch, or choose from one of many preconfigured examples.

Create a function

How it works

Run Next: Lambda responds to events

.NET Java **Node.js** Python Ruby Custom runtime

```
1 exports.handler = async (event) => {
2   console.log(event);
3   return 'Hello from Lambda!';
4 };
5
```

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

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Module 13 Guided Lab - Imple... x Load-Inventory - Lambda x +

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/Load-Inventory?newFunction=true&tab=code

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Successfully created the function Load-Inventory. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Load-Inventory

Throttle Copy ARN Actions

Function overview Info

Export to Application Composer Download

Diagram Template

Load-Inventory

Layers (0)

+ Add trigger

+ Add destination

Description

Last modified 3 seconds ago

Function ARN arn:aws:lambda:us-east-1:381491997970:function:Load-Inventory

Function URL Info

Code Test Monitor Configuration Aliases Versions

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

Learn more

Start tutorial

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/Load-Inventory/newFunction=true&tab=code

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Successfully updated the function Load-Inventory.

Code source Info

Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

lambda_function x Environment Var x

```
1 # Load-Inventory Lambda function
2 #
3 # This function is triggered by an object being created in an Amazon S3 bucket.
4 # The file is downloaded and each line is inserted into a DynamoDB table.
5 import json, urllib, boto3, csv
6 # Connect to S3 and DynamoDB
7 s3 = boto3.resource('s3')
8 dynamodb = boto3.resource('dynamodb')
9 # Connect to the DynamoDB table
10 inventoryTable = dynamodb.Table('Inventory');
11 # This handler is run every time the Lambda function is triggered
12 def lambda_handler(event, context):
13     # Show the incoming event in the debug log
14     print("Event received by Lambda function: " + json.dumps(event, indent=2))
15     # Get the bucket and object key from the event
16     bucket = event['Records'][0]['s3']['bucket']['name']
17     key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'])
18     localFilename = '/tmp/inventory.txt'
19     # Download the file from S3 to the local filesystem
20     try:
21         s3.meta.client.download_file(bucket, key, localFilename)
22     except Exception as e:
23         print(e)
24     print("Error getting object {} from bucket {}. Make sure they exist and your bucket is in the same region as this
```

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Module 13 Guided Lab - Imple... x Load-Inventory - Lambda x Homepage | S3 | Global x +

s3.console.aws.amazon.com/s3/get-started?region=us-east-1

aws Services Search [Alt+S]

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

Create bucket

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

[View pricing details](#)

Resources

How it works

Introduction to Amazon S3

Copy link

aws

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Module 13 Guided Lab - Imple... x Load-Inventory - Lambda x S3 buckets | S3 | Global x +

s3.console.aws.amazon.com/s3/buckets?region=us-east-1&bucketType=general

aws Services Search [Alt+S]

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Successfully created bucket "inventory-994"

To upload files and folders, or to configure additional bucket settings, choose [View details](#).

[Amazon S3](#) > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

[View Storage Lens dashboard](#)

General purpose buckets Directory buckets

General purpose buckets (1) Info

Buckets are containers for data stored in S3.

1

Name	AWS Region	Access	Creation date
inventory-994	US East (N. Virginia) us-east-1	Bucket and objects not public	March 3, 2024, 15:23:56 (UTC+05:30)

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inventory-994 - S3 bucket | S3

s3.console.aws.amazon.com/s3/buckets/inventory-994?region=us-east-1&bucketType=general&tab=objects

aws

Services

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Global

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Upload succeeded

View details below.

Amazon S3

Buckets

inventory-994

inventory-994

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

Info

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

Name

Type

Last modified

Size

Storage class

inventory-calcutta.txt

txt

March 3, 2024, 15:27:03
(UTC+05:30)

150.0 B

Standard

https://s3.console.aws.amazon.com/s3/object/inventory-994?region=us-east-1&bucketType=general&prefix=inventory-calcutta.txt

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Module 13 Guided Lab - Implemen

Load-Inventory - Lambda

Inventory System

aws-tc-largeobjects.s3-us-west-2.amazonaws.com/ILT-TF-200-ACACAD-20-EN/mod13-guided/web/inventory.htm?region=us-east-1&poolId=us-east-1:26622bc7-dc2d-4074-8f44-3f...

Inventory Dashboard

Choose a store to view current inventory levels.

Store:

All Stores

Store	Item	Count
All Stores	Echo Show	14
All Stores	Echo Plus	16
All Stores	Echo Look	3
All Stores	Echo Dot	7
All Stores	Echo (2nd Gen)	0
All Stores	Amazon Tap	15

Inventory

This page uses an Amazon Cognito identity to retrieve data directly from Amazon DynamoDB.

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Module 13 Guided Lab - Implementing a Lambda Function to Process Inventory Data

Load-Inventory - Lambda

Create subscription | Subscriptions

Items | Amazon DynamoDB

Inventory System

us-east-1.console.aws.amazon.com/sns/v3/home?region=us-east-1#/create-subscription

Services Search [Alt+S]

N. Virginia

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Topic ARN

arn:aws:sns:us-east-1:381491997970:NoStock

Protocol

The type of endpoint to subscribe

Email

Endpoint

An email address that can receive notifications from Amazon SNS.

shaik.safleen2004@gmail.com

After your subscription is created, you must confirm it. [Info](#)

Subscription filter policy - optional [Info](#)

This policy filters the messages that a subscriber receives.

Redrive policy (dead-letter queue) - optional [Info](#)

Send undeliverable messages to a dead-letter queue.

Cancel Create subscription

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Module 13 Guided Lab - Implementing a Lambda Function to Process Inventory Data

Load-Inventory - Lambda

Subscription: 30aec88b-6db4-445f-b44e-a29c45da7258

Items | Amazon DynamoDB

Inventory System

AWS Notification - SNS

Subscription confirm

sns.us-east-1.amazonaws.com/confirmation.html?TopicArn=arn:aws:sns:us-east-1:381491997970:NoStock&Token=2336412f37fb687f5d51e6e2425ba1f252b28eaf4dad714f9b9b40ad...

aws Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:

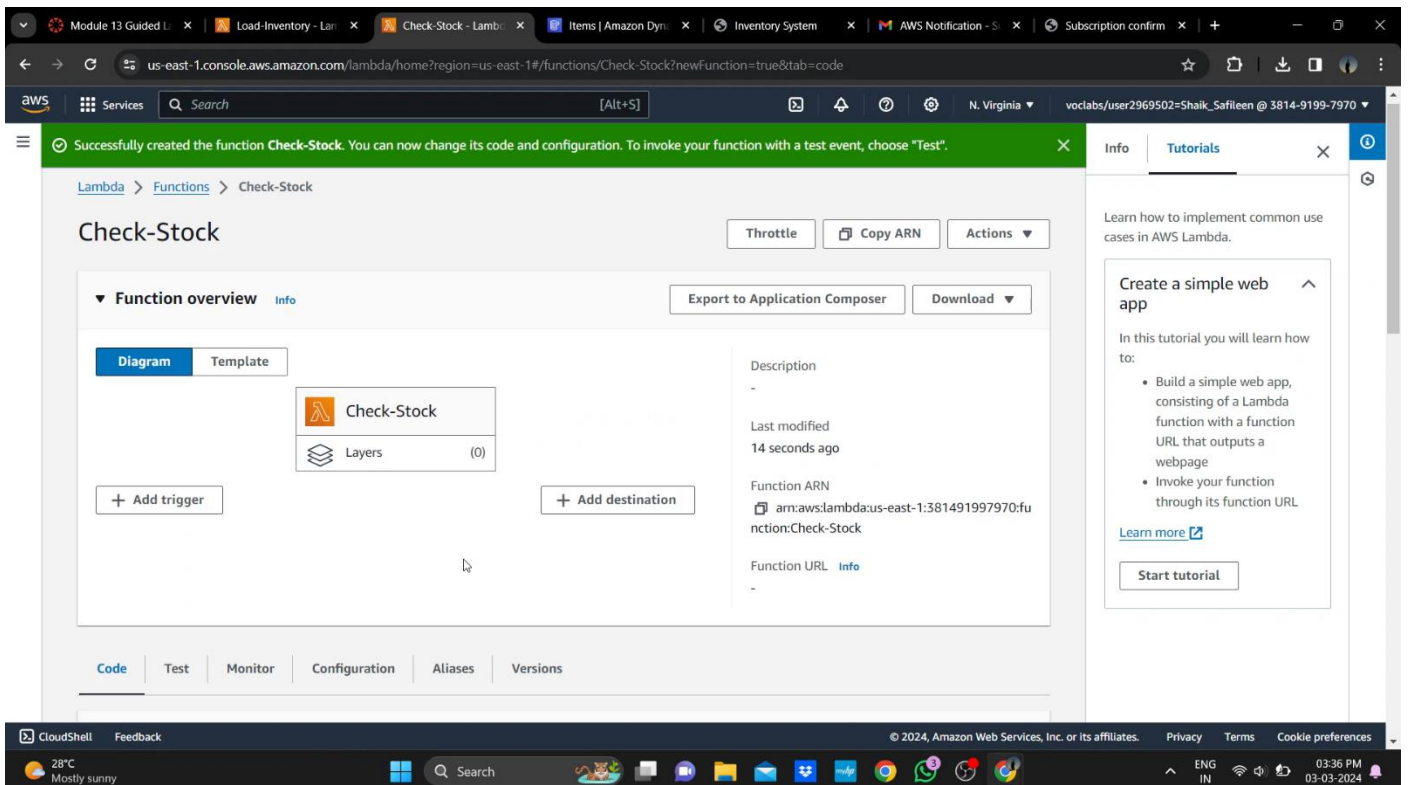
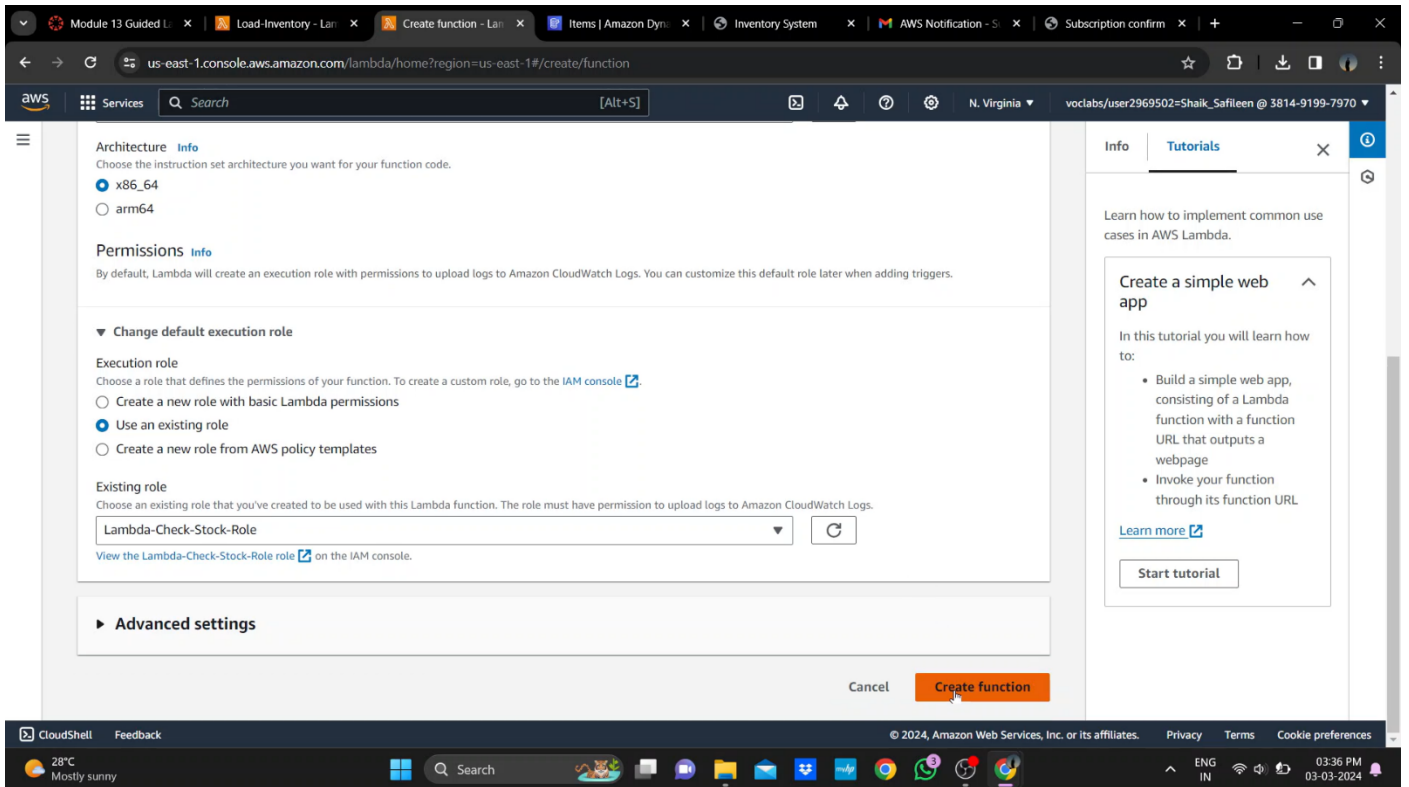
arn:aws:sns:us-east-1:381491997970:NoStock:30aec88b-6db4-445f-b44e-a29c45da7258

If it was not your intention to subscribe, [click here to unsubscribe](#).

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Module 13 Guided L...Upload objects - S3...Check-Stock - Lamb...Items | Amazon Dyn...Inventory System...AWS Notification - S...Subscription confirm...+

s3.console.aws.amazon.com/s3/upload/inventory-994?region=us-east-1&bucketType=general

awsServicesSearch[Alt+S]

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Upload succeededView details below.

Upload: statusClose

The information below will no longer be available after you navigate away from this page.

Summary

Destination

s3://inventory-994

Succeeded

1 file, 140.0 B (100.00%)

Failed

0 files, 0 B (0%)

Files and foldersConfiguration

Files and folders (1 Total, 140.0 B)

Find by name

Name	Folder	Type	Size	Status	Error
inventory-b...	-	text/plain	140.0 B	Succeeded	-

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Module 13 Guided L...Items | Amazon Dyn...inventory-994 - S3 b...Items | Amazon Dyn...Inventory System...AWS Notification - S...Subscription confirm...+

aws-tc-largeobjects.s3-us-west-2.amazonaws.com/ILT-TF-200-ACACAD-20-EN/mod13-guided/web/inventory.htm?region=us-east-1&poolId=us-east-126622bc7-dc2d-4074-8f44-3f...Stop loading this page

Inventory Dashboard

Choose a store to view current inventory levels.

Store:All Stores

Store	Item	Count
All Stores	Echo Show	32
All Stores	Echo Plus	16
All Stores	Echo Look	13
All Stores	Echo Dot	19
All Stores	Echo (2nd Gen)	19
All Stores	Amazon Tap	30

Inventory

Item	Count
Echo Show	32
Echo Plus	16
Echo Look	13
Echo Dot	19
Echo (2nd Gen)	19
Amazon Tap	30

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