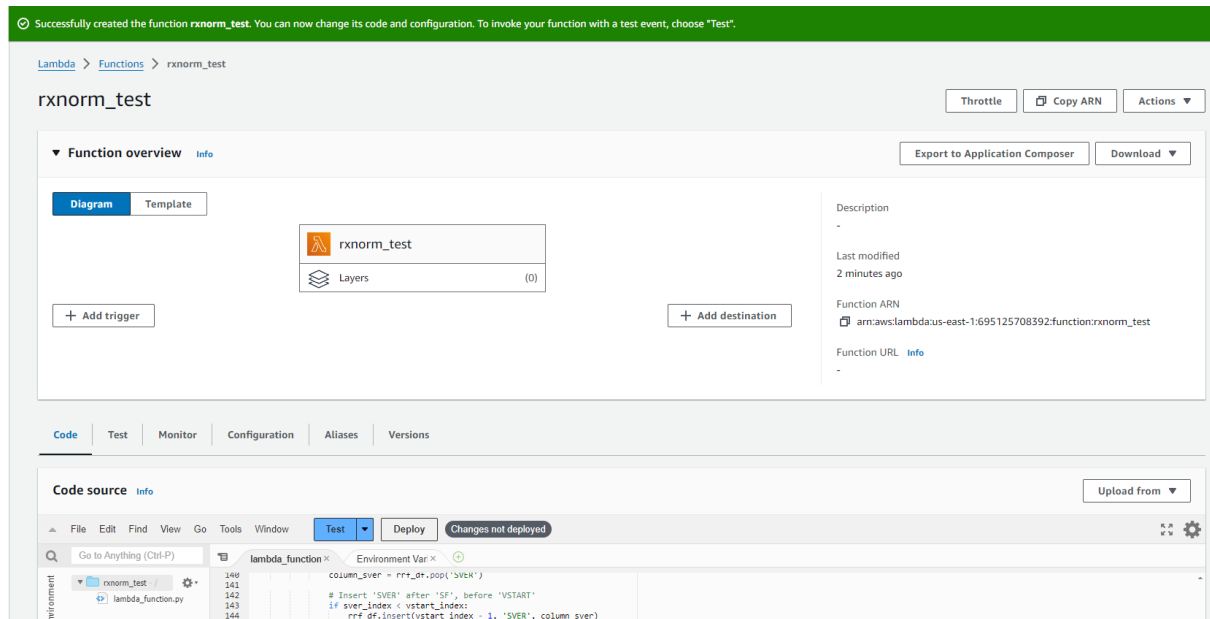
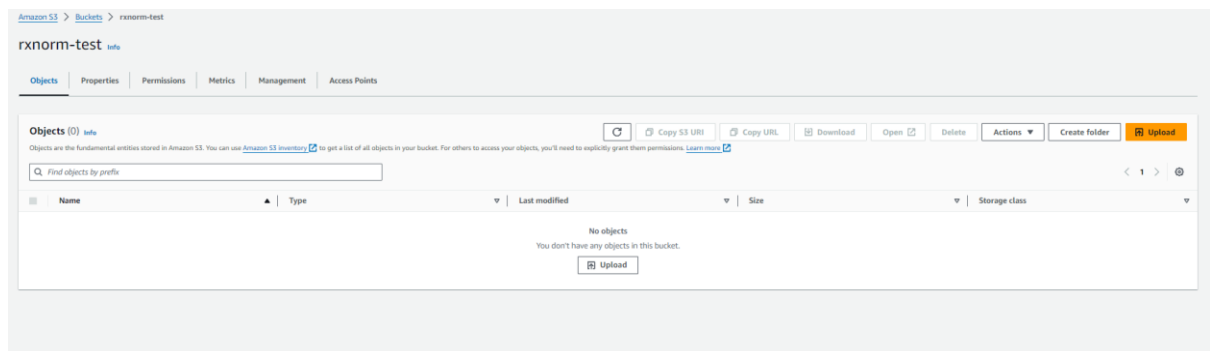


RXNORM

Create a lambda function and add a code



Then create a S3 bucket



Then create 4 folders

Create folder [Info](#)

Use folders to group objects in buckets. When you create a folder, S3 creates an object using the name that you specify followed by a slash (/). This object then appears as folder on the console. [Learn more](#)



Your bucket policy might block folder creation

If your bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, you will not be able to create a folder using this configuration. Instead, you can use the [upload configuration](#) to upload an empty folder and specify the appropriate settings.

Folder

Folder name

Folder names can't contain "/" . [See rules for naming](#)

Server-side encryption [Info](#)

Server-side encryption protects data at rest.



The following encryption settings apply only to the folder object and not to sub-folder objects.

Server-side encryption

☒ Do not specify an encryption key

The bucket settings for default encryption are used to encrypt the folder object when storing it in Amazon S3.

☐ Specify an encryption key

The specified encryption key is used to encrypt the folder object before storing it in Amazon S3.



If your bucket policy requires objects to be encrypted with a specific encryption key, you must specify the same encryption key when you create a folder. Otherwise, folder creation will fail.

Cancel

Create folder

Successfully created folder "zipped".

Amazon S3 > Buckets > rxnorm-test

rxnorm-test [Info](#)

Objects Properties Permissions Metrics Management Access Points

Objects (4) [Info](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name	Type	Last modified	Size	Storage class
excelfiles/	Folder	-	-	-
transformations/	Folder	-	-	-
unzipped/	Folder	-	-	-
zipped/	Folder	-	-	-

Uploading Header file in excel folder

Upload succeeded
View details below.

Close

Upload: status

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

Summary

Destination
s3://rxnorm-test/txc2/files/

Succeeded

1 file, 24.7 KB (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 24.7 KB)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
RxNorm_Hi...	-	application/...	24.7 KB	Succeeded	-

Uploading RXNorm zipped file in Zipped folder

Uploading
Total remaining: 1 file: 137.5 MB(64.00%)
Estimated time remaining: a few seconds
Transfer rate: 4.4 MB/s

Cancel

50%

Close

Upload: status

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

Summary

Destination
s3://rxnorm-test/zip/files/

Succeeded

0 files, 131.1 MB (54.95%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 238.5 MB)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
RxNorm_Ful...	-	application/...	238.5 MB	In progress (55)	-

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (1 Total, 238.5 MB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

< 1 >

<input type="checkbox"/>	Name	Folder
<input type="checkbox"/>	RxNorm_full_02052024.zip	-

Destination Info

Destination

s3://rxnorm-test/zipped/

► Destination details

Bucket settings that impact new objects stored in the specified destination.

- **Permissions**
Grant public access and access to other AWS accounts.
- **Properties**
Specify storage class, encryption settings, tags, and more.

Cancel

Upload

Uploading

Total remaining: 1 file: 238.5 MB(100.00%)

Estimated time remaining: calculating...

Transfer rate: 0 B/s

0%

Upload: status

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

Summary

Destination

s3://rxnorm-test/ziped/

Succeeded

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 238.5 MB)

Find by name

Name	Folder	Type	Size	Status	Error
RxNorm_ful...	-	application/...	238.5 MB	Pending	-

Amazon S3

Buckets

rxnorm-test

ziped/

ziped/

Copy S3 URI

Objects

Properties

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
RxNorm_full_02052024.zip	zip	March 11, 2024, 01:28:00 (UTC+05:45)	238.5 MB	Standard

Log events

Actions

Start tailing

Create metric filter

Filter events

Clear

1m

30m

1h

12h

Custom

Local timezone

Display

Timestamp	Message
	No older events at this moment. Retry
2024-03-11T14:13:50.367+05:45	INIT_START Runtime Version: python:3.12.v20 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:82aea00f37a44d68665730d559c81352fc95f22c9aa34a0722815e93f08e102b
2024-03-11T14:13:50.668+05:45	START RequestId: d8e83081-b4eb-46cf-a46a-ca681b0f3f55 Version: \$LATEST
2024-03-11T14:13:50.669+05:45	LAMBDA_WARNING: Unhandled exception. The most likely cause is an issue in the function code. However, in rare cases, a Lambda runtime update can cause unexpected function behavior. For ...
2024-03-11T14:13:50.669+05:45	[ERROR] Runtime.ImportModuleError: Unable to import module 'lambda_function': No module named 'pandas' Traceback (most recent call last):
2024-03-11T14:13:50.685+05:45	END RequestId: d8e83081-b4eb-46cf-a46a-ca681b0f3f55
2024-03-11T14:13:50.685+05:45	REPORT RequestId: d8e83081-b4eb-46cf-a46a-ca681b0f3f55 Duration: 17.04 ms Billed Duration: 18 ms Memory Size: 128 MB Max Memory Used: 61 MB Init Duration: 299.19 ms
	No newer events at this moment. Auto retry paused . Resume

We must import pandas by creating a layer

[Lambda](#) > [Layers](#) > Add layer

Add layer

Function runtime settings

Runtime
Python 3.12

Architecture
x86_64

Choose a layer

Layer source [Info](#)

Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also create a new layer.

☒ **AWS layers**
Choose a layer from a list of layers provided by AWS.

☐ **Custom layers**
Choose a layer from a list of layers created by your AWS account or organization.

☐ **Specify an ARN**
Specify a layer by providing the ARN.

AWS layers

Layers provided by AWS that are compatible with your function's runtime.

AWSSDKPandas-Python312 ▼

Version

4 ▼

Cancel

Add

It gives me error because of high storage file and low memory in AWS. Also because of time out so we change some settings

Edit basic settings

Basic settings [Info](#)

Description - optional

Memory [Info](#)

Your function is allocated CPU proportional to the memory configured.

MB

Set memory to between 128 MB and 10240 MB

Ephemeral storage [Info](#)

You can configure up to 10 GB of ephemeral storage (/tmp) for your function. [View pricing](#)

MB

Set ephemeral storage (/tmp) to between 512 MB and 10240 MB.

SnapStart [Info](#)

Reduce startup time by having Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the [SnapStart compatibility considerations](#).

Supported runtimes: Java 11, Java 17, Java 21.

Timeout

min sec

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- ☒ Use an existing role
- ☐ Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.



View the [LabRole](#) role on the IAM console.

Cancel

Save

CloudWatch > Log groups > /aws/lambda/rnorm_test > 2024/03/11/[LATEST]85592458c2164a639a0a90d22f1d15cc

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Filter events

Clear 1m 30m 1h 12h Custom Local timezone Display

Timestamp Message

No older events at this moment. [Retry](#)

2024-03-11T14:22:04.073+05:45 INIT_START Runtime Version: python:3.12.v20 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:82aea8f37a4d68653780559c81352fc95f22c9a34a072815d3f08a202b

2024-03-11T14:22:07.176+05:45 START RequestId: 2a7b0ec1-a175-4b2d-970c-54e434d543bc Version: \$LATEST

2024-03-11T14:22:07.298+05:45 Excel file downloaded to: /tmp/RxNorm_header.xlsx

2024-03-11T14:22:07.312+05:45 Sheet names: ['RXNCONGO', 'RXNCLAT', 'RXNDOC', 'RXNREL', 'RXNSAB', 'RXNSTY', 'RXNATOMARCHIVE', 'RXNCUI', 'RXNCUICHANGES']

2024-03-11T14:22:07.331+05:45 excel_headers dictionary for sheet RXNCONGO: ['RXNCUI', 'LAT', 'TS', 'LUI', 'STT', 'SUI', 'ISPREP', 'RXAU1', 'SAU1', 'SCU1', 'SON1', 'SAB', 'TTY', 'CODE', 'STR', 'SRL', 'SUPPRESS', 'CVP', 'Code set', 'Version Month']

2024-03-11T14:22:09.837+05:45 RxNorm_full_02052024.zip

2024-03-11T14:22:09.837+05:45 The RXNATOMARCHIVE.RRF is read from zip file.

No newer events at this moment. Auto retry paused. [Resume](#)

So unzipped and transformation files are created after lambda trigger (after zip file uploaded)

Amazon S3 > Buckets > rnorm-test

rnorm-test info

Objects Properties Permissions Metrics Management Access Points

Objects (4) info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name	Type	Last modified	Size	Storage class
excelfiles/	Folder	-	-	-
transformation/	Folder	-	-	-
unzipped/	Folder	-	-	-
zipfiles/	Folder	-	-	-

Amazon S3 > Buckets > rnorm-test > transformation/

transformation/

Copy S3 URI

Objects Properties

Objects (9) info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name	Type	Last modified	Size	Storage class
RXNATOMARCHIVE.txt	txt	March 11, 2024, 14:24:25 (UTC+05:45)	69.5 MB	Standard
RXNCONGO.txt	txt	March 11, 2024, 14:24:41 (UTC+05:45)	138.1 MB	Standard
RXNCLAT.txt	txt	March 11, 2024, 14:24:44 (UTC+05:45)	2.1 MB	Standard
RXNCUICHANGES.txt	txt	March 11, 2024, 14:24:44 (UTC+05:45)	17.8 KB	Standard
RXNDOC.txt	txt	March 11, 2024, 14:24:44 (UTC+05:45)	271.6 KB	Standard
RXNREL.txt	txt	March 11, 2024, 14:26:01 (UTC+05:45)	645.2 MB	Standard
RXNSAB.txt	txt	March 11, 2024, 14:26:15 (UTC+05:45)	10.3 KB	Standard
RXNSAT.txt	txt	March 11, 2024, 14:27:16 (UTC+05:45)	621.9 MB	Standard
RXNSTY.txt	txt	March 11, 2024, 14:27:31 (UTC+05:45)	26.0 MB	Standard

Amazon S3 > Buckets > rnorm-test > unzipped/

unzipped/

Copy S3 URI

Objects Properties

Objects (9) info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name	Type	Last modified	Size	Storage class
RXNATOMARCHIVE.RRF	RRF	March 11, 2024, 14:24:26 (UTC+05:45)	71.4 MB	Standard
RXNCONGO.RRF	RRF	March 11, 2024, 14:24:43 (UTC+05:45)	118.6 MB	Standard
RXNCLAT.RRF	RRF	March 11, 2024, 14:24:44 (UTC+05:45)	1.7 MB	Standard
RXNCUICHANGES.RRF	RRF	March 11, 2024, 14:24:44 (UTC+05:45)	14.9 KB	Standard
RXNDOC.RRF	RRF	March 11, 2024, 14:24:44 (UTC+05:45)	214.2 KB	Standard
RXNREL.RRF	RRF	March 11, 2024, 14:26:09 (UTC+05:45)	484.4 MB	Standard
RXNSAB.RRF	RRF	March 11, 2024, 14:26:15 (UTC+05:45)	9.8 KB	Standard
RXNSAT.RRF	RRF	March 11, 2024, 14:27:24 (UTC+05:45)	498.7 MB	Standard
RXNSTY.RRF	RRF	March 11, 2024, 14:27:32 (UTC+05:45)	18.4 MB	Standard

