

## Creating tow S3 bracket:- 1)source ,2)destination

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Amazon S3 > Buckets > Create bucket

### Create bucket [Info](#)

Buckets are containers for data stored in S3.

#### General configuration

AWS Region  
US East (N. Virginia) us-east-1

Bucket type [Info](#)

☒ **General purpose**  
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory - New**  
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)  
rxnorm-source-buck  
Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional  
Only the bucket settings in the following configuration are copied.

Format: s3://bucket/prefix

<https://docs.aws.amazon.com/console/s3/bucket-naming> © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

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ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☐ **Block all public access**  
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☐ **Block public access to buckets and objects granted through new access control lists (ACLs)**  
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☐ **Block public access to buckets and objects granted through any access control lists (ACLs)**  
S3 will ignore all ACLs that grant public access to buckets and objects.

☐ **Block public access to buckets and objects granted through new public bucket or access point policies**  
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☐ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

**Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

#### Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore

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Successfully created bucket "rxnorm-source-buck".  
To upload files and folders, or to configure additional bucket settings, choose View details.

Amazon S3> Buckets

Account snapshot

View Storage Lens dashboard

Last updated: Mar 7, 2024 by Storage Lens. Metrics are generated every 24 hours. Metrics don't include directory buckets. [Learn more](#)

Total storage

Object count

Average object size

You can enable advanced metrics in the "default-account-dashboard" configuration.

563.1 MB

17

33.1 MB

General purpose buckets

Directory buckets

General purpose buckets (2) Info

Buckets are containers for data stored in S3.

Find buckets by name

< 1 >

Name	AWS Region	Access	Creation date
<input type="radio"/> rxnorm-source-buck	US East (N. Virginia) us-east-1	<a href="#">Objects can be public</a>	March 8, 2024, 17:36:12 (UTC+05:30)
<input type="radio"/> rxnom-destin-buck	US East (N. Virginia) us-east-1	<a href="#">Objects can be public</a>	March 6, 2024, 14:48:41 (UTC+05:30)

Refresh

Copy ARN

Empty

Delete

Create bucket

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## Creating folders in source bucket:-

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Amazon S3

Successfully created folder "zip\_file".

Amazon S3> Buckets> rxnorm-source-buck

rxnorm-source-buck Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (2) Info

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

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

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	header_file/	Folder	-	-	-
<input type="checkbox"/>	zip_file/	Folder	-	-	-

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## Creating lambda function:-

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Alerts

Virginia

us-east-1:us-east-1:arn:aws:iam::123456789012:role:lambda-role

4029-7348-7628

Lambda

Functions

Create function

Create function

Choose one of the following options to create your function.

☒ Author from scratch

☐ Use a blueprint

☐ Container image

Start with a simple Hello World example.

Build a Lambda application from sample code and configuration presets for common use cases.

Select a container image to deploy for your function.

Basic information

Function name

Enter a name that describes the purpose of your function.

hello-world-function

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.12

Architecture

Choose the instruction set architecture you want for your function code.

☒ x86\_64

☐ arm64

Permissions

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

Change default execution role

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.

☐ Create a new role with basic Lambda permissions

☒ 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.

lambda-role

Advanced settings

Cancel

Create function

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## Adding Trigger

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≡

Lambda > Add trigger

### Add trigger

Trigger configuration [Info](#)

 **S3**  
aws asynchronous storage

Bucket

Choose or enter the ARN of an S3 bucket that serves as the event source. The bucket must be in the same region as the function.

Q s3/rxnorm-source-buck

X

↺

Bucket region: us-east-1

Event types

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

▼

PUT X

POST X

Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

zip\_file/

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

e.g. .jpg

Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

☒ I acknowledge that using the same S3 bucket for both input and output is not

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## Adding pandas layer:-

The screenshot displays the AWS Lambda console interface. At the top, the navigation bar shows the AWS logo, a search bar, and the user's account information. The main content area is divided into three sections: Code properties, Runtime settings, and Layers.

**Code properties**

Package size 299.0 byte	SHA256 hash HAPq9EReJVECSgLavtc/gyd5vZtd9eiUGF932t0BxY=	Last modified March 8, 2024 at 05:39 PM GMT+5:30
----------------------------	--	---

**Runtime settings**

Runtime Python 3.12	Handler lambda_function.lambda_handler	Architecture x86_64
------------------------	---	------------------------

**Layers**

Merge order	Name	Layer version	Compatible runtimes	Compatible architectures	Version ARN
There is no data to display.					



## 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

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N. Virginia

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☰

☑ Successfully updated the function RxNormFunction. ✕ ⓘ

Lambda > Functions > RxNormFunction

RxNormFunction

Throttle Copy ARN Actions

▼ Function overview Info

Export to Application Composer Download

Diagram Template

RxNormFunction

Layers

(1)

S3

+ Add trigger

+ Add destination

Description

-

Last modified

28 seconds ago

Function ARN

arn:aws:lambda:us-east-1:462972487428:function:RxNormFunction

Function URL [Info](#)

-

Code Test Monitor Configuration Aliases Versions

Code source Info

Upload from

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## Changing Configuration Settings:-

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Lambda > Functions > RxNormFunction > Edit basic settings

Edit basic settings

Basic settings Info

Description - optional

Memory Info

Your function is allocated CPU proportional to the memory configured.

4000 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](#)

512 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](#)

None

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

Timeout

5 min 0 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.

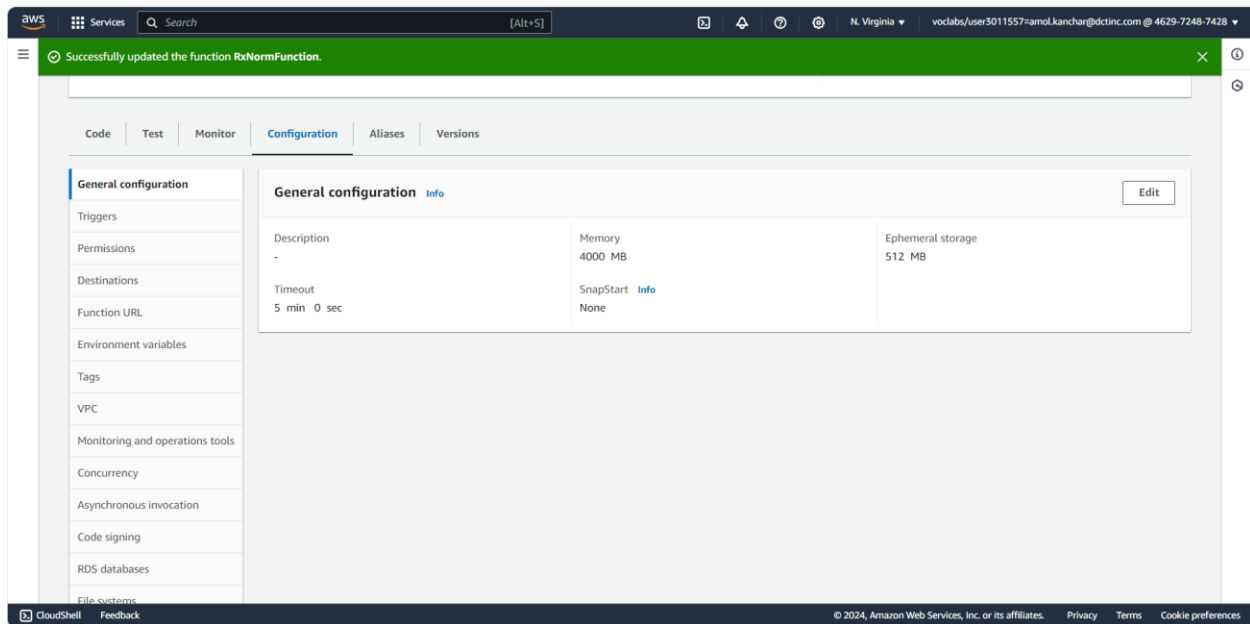
LabRole

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

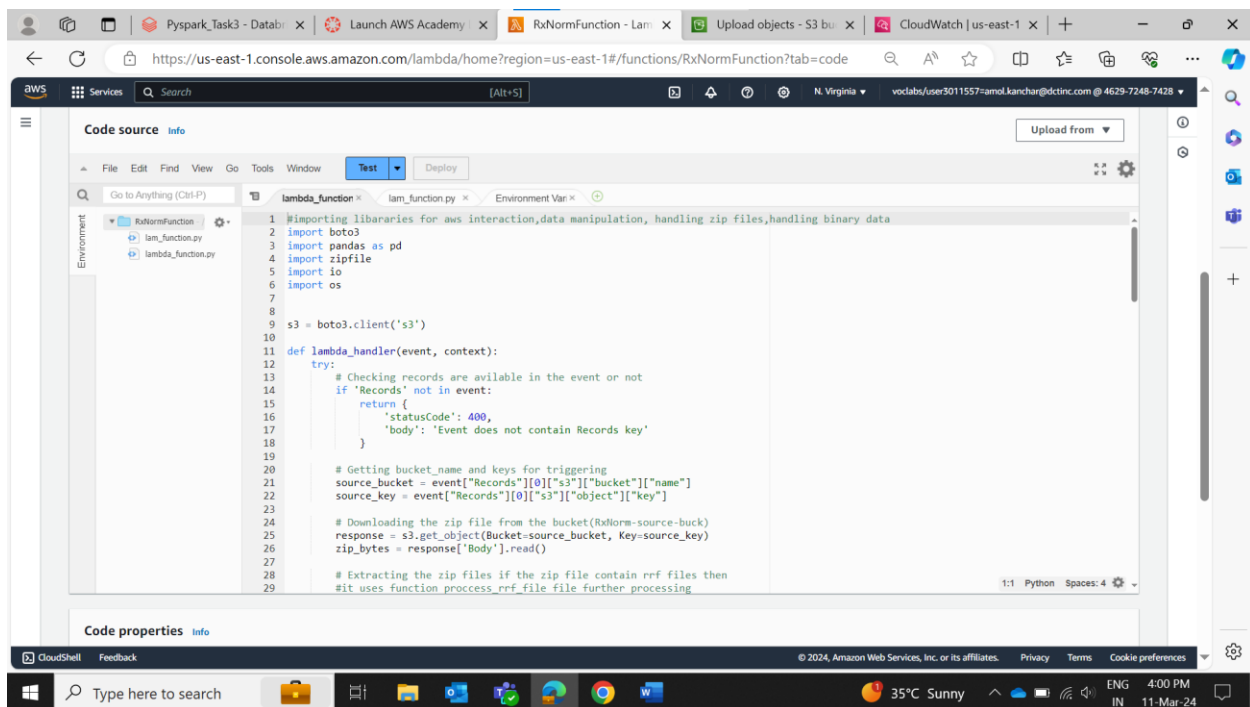
Cancel

Save





Code:-



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Code Test Monitor Configuration Aliases Versions

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File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

Environment

```
26 zip_bytes = response['Body'].read()
27
28 # Extracting the zip files if the zip file contain rrf files then
29 #it uses function process_rrf_file file further processing
30 with zipfile.ZipFile(io.BytesIO(zip_bytes)) as zip_ref:
31     for file_info in zip_ref.infolist():
32         if file_info.filename.endswith('.RRF'):
33             process_rrf_file(zip_ref, file_info, source_bucket)
34
35     return {
36         'statusCode': 200,
37         'body': 'Success'
38     }
39 except Exception as e:
40     return {
41         'statusCode': 500,
42         'body': f'Error: {e}'
43     }
44
45 def process_rrf_file(zip_ref, file_info, source_bucket):
46     try:
47         file_name = os.path.basename(file_info.filename) #it extracts base filename without whole path
48
49         with zip_ref.open(file_info.filename) as rrf_file: #it opens the RRF file from the ZIP archive "zip_ref" and give it to df
50
51
```

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Go to Anything (Ctrl-P)

Environment

```
51
52 #as file content Pipe separator so we used sep as "|" ,None for the header (as there's no header in the RRF files),
53 #and sets low_memory to False so that pandas doesn't attempt to infer the data types, as RRF files can be large.
54 df = pd.read_csv(rrf_file, sep='|', header=None, low_memory=False)
55 original_row_count = df.shape[0]
56
57 #it retrieves header information from an Excel file stored in an S3 bucket folder name header_file
58 sheet_name = os.path.splitext(file_name)[0]
59 header_file_key = 'header_file/RxNorm_Header.xlsx'
60 header_df = read_excel_from_s3(source_bucket, header_file_key, sheet_name)
61
62 if header_df is not None:
63     df1 = df.shape[1]
64     headers = header_df.iloc[:, 1].tolist()[1:df1]
65     # Ensures DataFrame columns match with excel sheet headers
66     if len(headers) != df1:
67         df1 = max(len(headers), df1)
68         df.columns = headers[:df1]
69         df = df.reindex(columns=headers[:df1])
70     else:
71         df.columns = headers
72
73 # Adding 'version_month' column in every file if not already present
74 if 'VERSION_MONTH' not in df.columns:
75
76     df['VERSION_MONTH'] = '2024-02-05' # From download textfile
```

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Code Test Monitor Configuration Aliases Versions

Code source Info Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P) lambda\_function lam\_function.py Environment Var

```
df.columns = headers
# Adding 'version_month' column in every file if not already present
if 'VERSION_MONTH' not in df.columns:
    df['VERSION_MONTH'] = '2024-02-05' # From download textfile
# Checking if 'CODE_SET' column already exists, if it exists then updating its values to 'RxNorm'
if 'CODE_SET' in df.columns:
    df['CODE_SET'] = 'RxNorm'
# Converting date columns(SOURCE_VERSION , EFFT_DT ) of RXNOSAB file in proper yyyy-mm-dd format
if 'SOURCE_VERSION' in df.columns:
    df['SOURCE_VERSION'] = pd.to_datetime(df['SOURCE_VERSION'], format='%Y_%m_%d', errors='coerce').dt.strftime('%Y-%m-%d')\
    .fillna(pd.to_datetime(df['SOURCE_VERSION'], format='%Y', errors='coerce').dt.strftime('%Y'))
if 'EFFT_DT' in df.columns:
    df['EFFT_DT'] = pd.to_datetime(df['EFFT_DT'], format='%Y_%m_%d').dt.strftime('%Y-%m-%d')
# Converting date columns(CREATE_DATE , UPDATE_DATE, RXNORM_TERM_DT ) of RXNATOMARCHIVE file in proper yyyy-mm-dd format
if 'CREATE_DATE' in df.columns:
```

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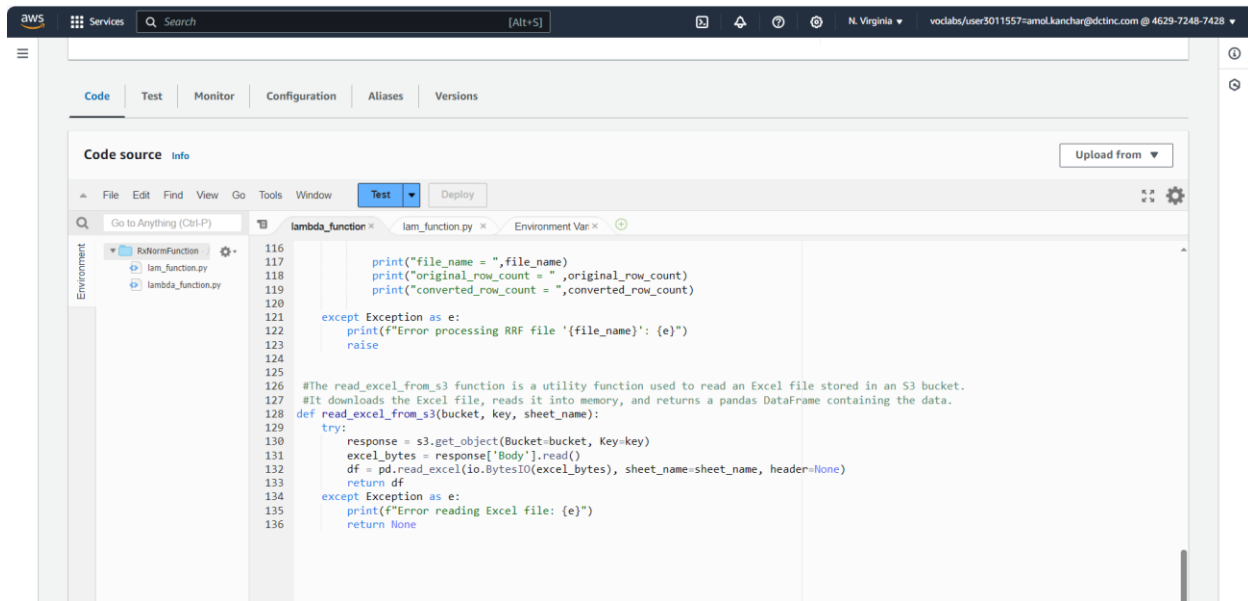
Code Test Monitor Configuration Aliases Versions

Code source Info Upload from

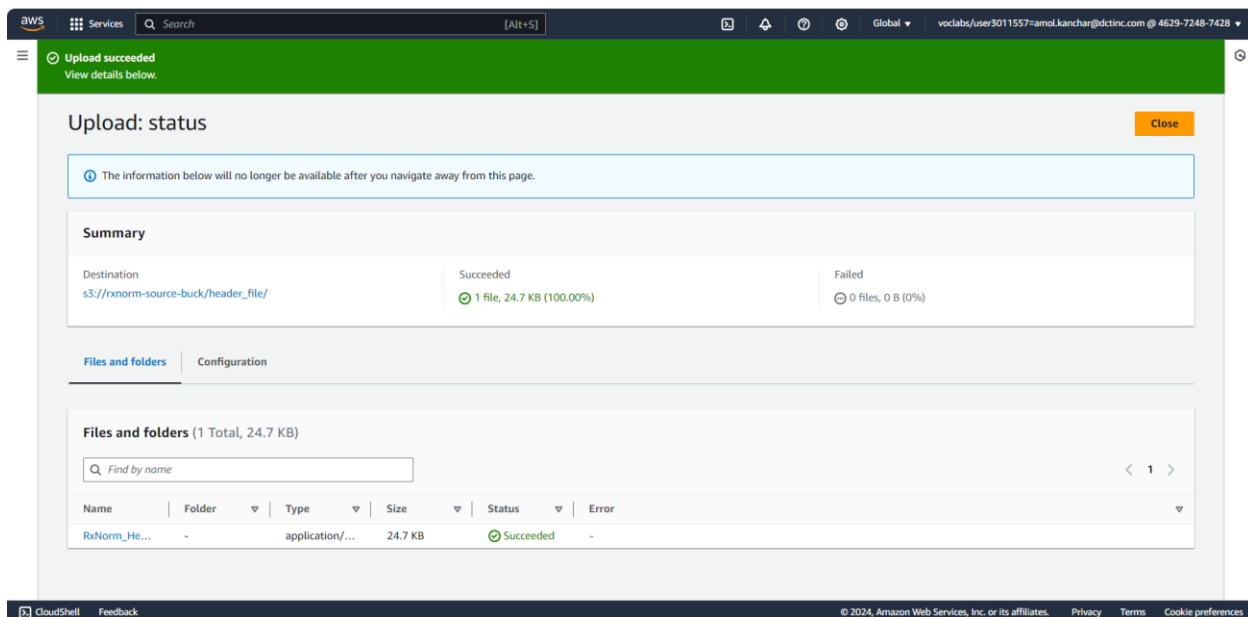
File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P) lambda\_function lam\_function.py Environment Var

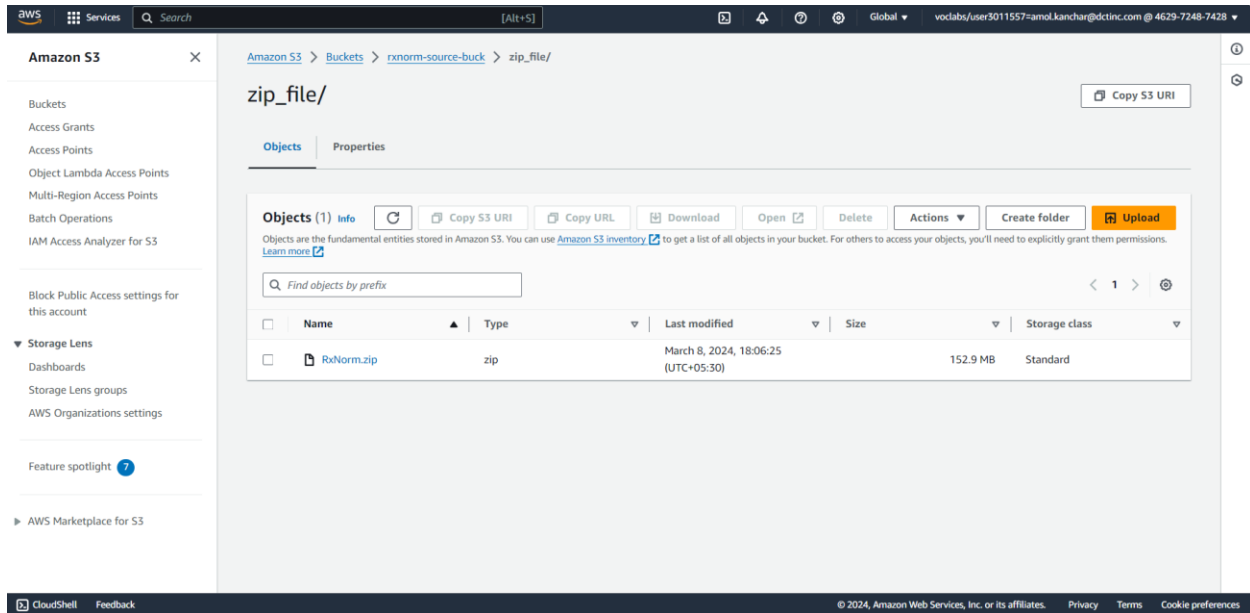
```
df['EFFT_DT'] = pd.to_datetime(df['EFFT_DT'], format='%Y_%m_%d').dt.strftime('%Y-%m-%d')
# Converting date columns(CREATE_DATE , UPDATE_DATE, RXNORM_TERM_DT ) of RXNATOMARCHIVE file in proper yyyy-mm-dd format
if 'CREATE_DATE' in df.columns:
    df['CREATE_DATE'] = pd.to_datetime(df['CREATE_DATE'], format='%m/%d/%Y %I:%M:%S %p').dt.strftime('%Y-%m-%d %I:%M:%S %p')
if 'UPDATE_DATE' in df.columns:
    df['UPDATE_DATE'] = pd.to_datetime(df['UPDATE_DATE'], format='%m/%d/%Y %I:%M:%S %p').dt.strftime('%Y-%m-%d %I:%M:%S %p')
if 'RXNORM_TERM_DT' in df.columns:
    df['RXNORM_TERM_DT'] = pd.to_datetime(df['RXNORM_TERM_DT'], format='%d-%b-%y').dt.strftime('%Y-%m-%d')
csv_data = df.to_csv(index=None) # converting dataframe to csv format
# Finally uploading the CSV data to another destination S3 bucket (rxnom-destin-buck)
destination_bucket = 'rxnom-destin-buck'
destination_key = f"{os.path.splitext(file_name)[0]}.csv"
s3.put_object(Bucket=destination_bucket, Key=destination_key, Body=csv_data)
converted_row_count = df.shape[0] #After updating df counting
```



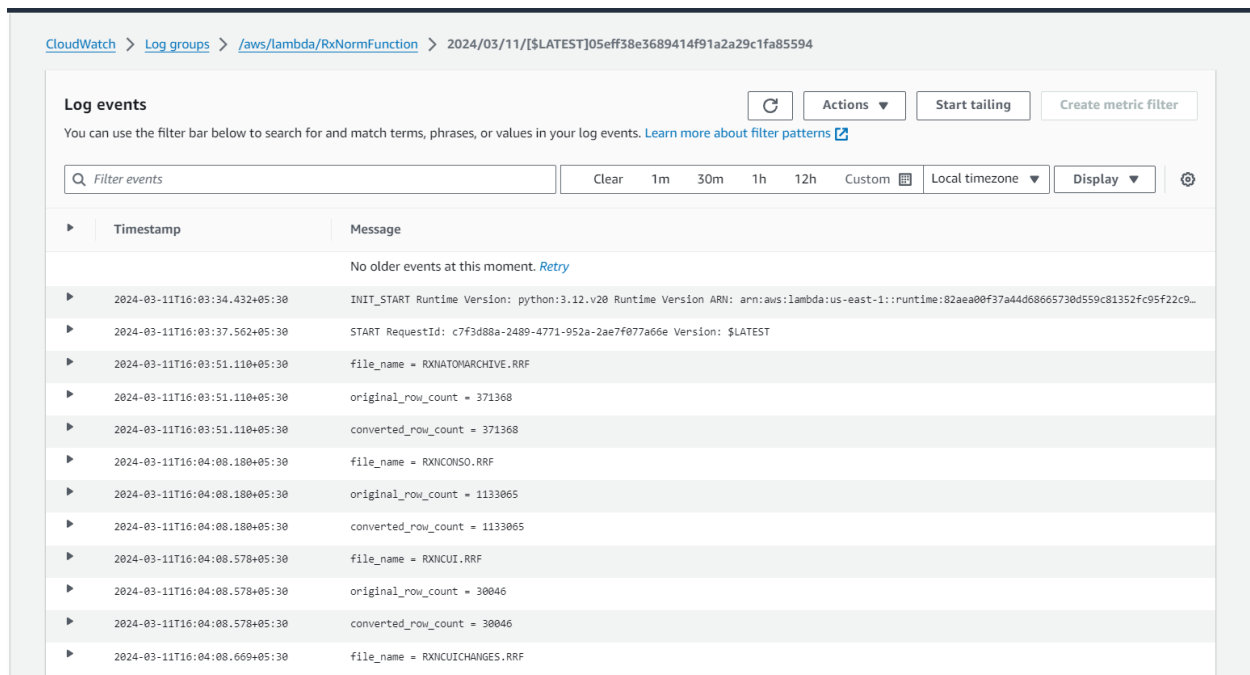
Adding header file in header\_folder:-



## Adding zip file in zip\_folder:-



## CloudWatchLog Result Validating row count:-



2024-03-11T16:04:08.578+05:30	file_name = RXNCONSO.csv
▶ 2024-03-11T16:04:08.578+05:30	original_row_count = 30046
▶ 2024-03-11T16:04:08.578+05:30	converted_row_count = 30046
▶ 2024-03-11T16:04:08.669+05:30	file_name = RXNCUICHANGES.RRF
▶ 2024-03-11T16:04:08.669+05:30	original_row_count = 153
▶ 2024-03-11T16:04:08.669+05:30	converted_row_count = 153
▶ 2024-03-11T16:04:08.886+05:30	file_name = RXNDOC.RRF
▶ 2024-03-11T16:04:08.886+05:30	original_row_count = 3445
▶ 2024-03-11T16:04:08.886+05:30	converted_row_count = 3445
▶ 2024-03-11T16:05:31.587+05:30	file_name = RXNREL.RRF
▶ 2024-03-11T16:05:31.587+05:30	original_row_count = 7154306
▶ 2024-03-11T16:05:31.587+05:30	converted_row_count = 7154306
▶ 2024-03-11T16:05:31.914+05:30	file_name = RXNSAB.RRF
▶ 2024-03-11T16:05:31.914+05:30	original_row_count = 13
▶ 2024-03-11T16:05:31.914+05:30	converted_row_count = 13
▶ 2024-03-11T16:06:40.357+05:30	file_name = RXNSAT.RRF
▶ 2024-03-11T16:06:40.357+05:30	original_row_count = 7222404
▶ 2024-03-11T16:06:40.357+05:30	converted_row_count = 7222404
▶ 2024-03-11T16:06:42.904+05:30	file_name = RXNSTY.RRF
▶ 2024-03-11T16:06:42.904+05:30	original_row_count = 461874
▶ 2024-03-11T16:06:42.904+05:30	converted_row_count = 461874

Back to top ^

## Destination Bucket with converted csv files:-

Amazon S3 > Buckets > rxnom-destin-buck

rxnom-destin-buck
Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (9) Info
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload

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

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	RXNATOMARCHIVE.csv	csv	March 11, 2024, 16:03:51 (UTC+05:30)	77.8 MB	Standard
<input type="checkbox"/>	RXNCONSO.csv	csv	March 11, 2024, 16:04:07 (UTC+05:30)	138.5 MB	Standard
<input type="checkbox"/>	RXNCUI.csv	csv	March 11, 2024, 16:04:09 (UTC+05:30)	2.1 MB	Standard
<input type="checkbox"/>	RXNCUICHANGES.csv	csv	March 11, 2024, 16:04:09 (UTC+05:30)	17.9 KB	Standard
<input type="checkbox"/>	RXNDOC.csv	csv	March 11, 2024, 16:04:09 (UTC+05:30)	271.8 KB	Standard
<input type="checkbox"/>	RXNREL.csv	csv	March 11, 2024, 16:05:26 (UTC+05:30)	645.2 MB	Standard
<input type="checkbox"/>	RXNSAB.csv	csv	March 11, 2024, 16:05:32 (UTC+05:30)	10.5 KB	Standard
<input type="checkbox"/>	RXNSAT.csv	csv	March 11, 2024, 16:06:34 (UTC+05:30)	622.4 MB	Standard
<input type="checkbox"/>	RXNSTY.csv	csv	March 11, 2024, 16:06:43 (UTC+05:30)	26.1 MB	Standard



Sample file :-

## RXNATOMARCHIEVE

Before Changes:-

```
RXNATOMARCHIVE - Notepad
File Edit Format View Help
947|A10335796|Mesna|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:10 PM|44||ENG|06-APR-20||RXNORM_19AB_200406F|44|RXNORM|IN|44|
1424|A10334758|beta-Alanine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|61||ENG|06-APR-20||RXNORM_19AB_200406F|61|RXNORM|IN|61|
1684|A10334529|4-Aminobenzoic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|74||ENG|06-APR-20||RXNORM_19AB_200406F|74|RXNORM|IN|74|
2192|A16791816|Eicosapentaenoic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:18 PM|90||ENG|06-APR-20||RXNORM_19AB_200406F|90|RXNORM|IN|90|
2265|A10334531|5-Hydroxytryptophan|2020-04-27|03/10/2005 02:03:47 PM|11/06/2020 06:11:15 AM|94||ENG|06-APR-20||RXNORM_19AB_200406F|94|RXNORM|IN|94|
2311|A16793037|Ticlopidine Hydrochloride|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:19 PM|97||ENG|06-APR-20||RXNORM_19AB_200406F|97|RXNORM|IN|97|
2332|A10334533|6-Aminocaproic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|99||ENG|06-APR-20||RXNORM_19AB_200406F|99|RXNORM|IN|99|
2453|A10334534|6-Mercaptopurine|2010-10-21|03/10/2005 02:03:47 PM|10/21/2010 02:10:12 AM|103||ENG|04-OCT-10||RXNORM_10AA_101004F|103|RXNORM|IN|103|
2663|A10336065|Oxyquinoline|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|110||ENG|06-APR-20||RXNORM_19AB_200406F|110|RXNORM|IN|110|
4330|A10334539|Acebutolol|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|149||ENG|06-APR-20||RXNORM_19AB_200406F|149|RXNORM|IN|149|
4414|A10334540|Acenocoumarol|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|154||ENG|06-APR-20||RXNORM_19AB_200406F|154|RXNORM|IN|154|
4458|A10334542|Acepromazine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:11 PM|155||ENG|06-APR-20||RXNORM_19AB_200406F|155|RXNORM|IN|155|
4565|A10334544|Acetanilide|2006-11-15|03/10/2005 02:03:47 PM|11/15/2006 11:11:45 AM|162||ENG||RXNORM_06AC_061012F|162|RXNORM|IN|162|
4655|A10334545|Acetazolamide|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:15 PM|167||ENG|06-APR-20||RXNORM_19AB_200406F|167|RXNORM|IN|167|
4714|A10338597|Acetic Acid|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|168||ENG|06-APR-20||RXNORM_19AB_200406F|168|RXNORM|IN|168|
4855|A10334546|Acetohexamide|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|173||ENG|06-APR-20||RXNORM_19AB_200406F|173|RXNORM|IN|173|
4998|A10334547|Acetone|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:13 PM|178||ENG|06-APR-20||RXNORM_19AB_200406F|178|RXNORM|IN|178|
5411|A10334548|Acetylcarnitine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:15 PM|193||ENG|06-APR-20||RXNORM_19AB_200406F|193|RXNORM|IN|193|
5433|A10334549|Acetylcholine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:11 PM|194||ENG|06-APR-20||RXNORM_19AB_200406F|194|RXNORM|IN|194|
5475|A10334550|Acetylcysteine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:13 PM|197||ENG|06-APR-20||RXNORM_19AB_200406F|197|RXNORM|IN|197|
5588|A10334552|Acetyldigoxins|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:13 PM|199||ENG|06-APR-20||RXNORM_19AB_200406F|199|RXNORM|IN|199|
5608|A10334553|Acetylene|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|200||ENG|06-APR-20||RXNORM_19AB_200406F|200|RXNORM|IN|200|
6433|A10334556|Acidulated Phosphate Fluoride|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|236||ENG|06-APR-20||RXNORM_19AB_200406F|236|RXNORM|IN|236|
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6658|A10334558|Aconite|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:14 PM|242||ENG|06-APR-20||RXNORM_19AB_200406F|242|RXNORM|IN|242|
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7746|A10336460|Spectinomycin|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:09 PM|270||ENG|06-APR-20||RXNORM_19AB_200406F|270|RXNORM|IN|270|
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8416|A10334566|Adenine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:08 PM|290||ENG|06-APR-20||RXNORM_19AB_200406F|290|RXNORM|IN|290|
8490|A10334567|Adenine Nucleotides|2006-10-11|03/10/2005 02:03:47 PM|10/11/2006 10:10:05 AM|292||ENG||RXNORM_06AC_060901F|292|RXNORM|IN|292|
8755|A10334568|Adenosine|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:16 PM|296||ENG|06-APR-20||RXNORM_19AB_200406F|296|RXNORM|IN|296|
9557|A10334570|Adenosine Triphosphate|2020-04-27|03/10/2005 02:03:47 PM|04/27/2020 09:04:08 PM|318||ENG|06-APR-20||RXNORM_19AB_200406F|318|RXNORM|IN|318|
11372|A10334573|Adrenaline Hydrochloride|2009-03-31|03/10/2005 02:03:47 PM|03/31/2009 04:03:41 PM|362||ENG|02-MAR-09||RXNORM_08AB_090302F|362|RXNORM|IN|362|
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After Changes

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RXNATOMARCHIVE - Notepad
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## RXNSAB

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RXNSAB - Notepad

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### After Changes

RXNSAB - Notepad

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ATN,ADDED\_MEANING,expanded\_form,Additional descriptive information,RxNorm,2024-02-05  
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ATN,AQL,expanded\_form,"MeSH Allowable Qualifier - list of allowable qualifier abbreviations for MeSH main headings (e.g. AA, CL, CS, DF, DU, IM, I, P ME, PK)"  
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