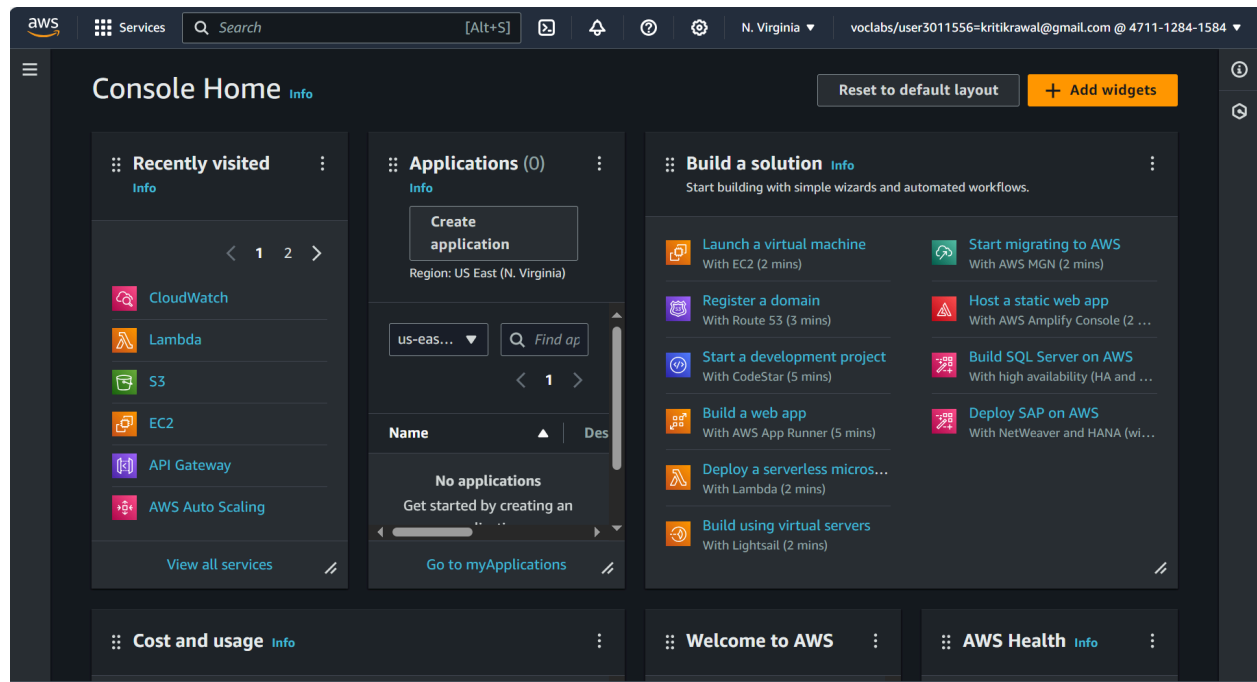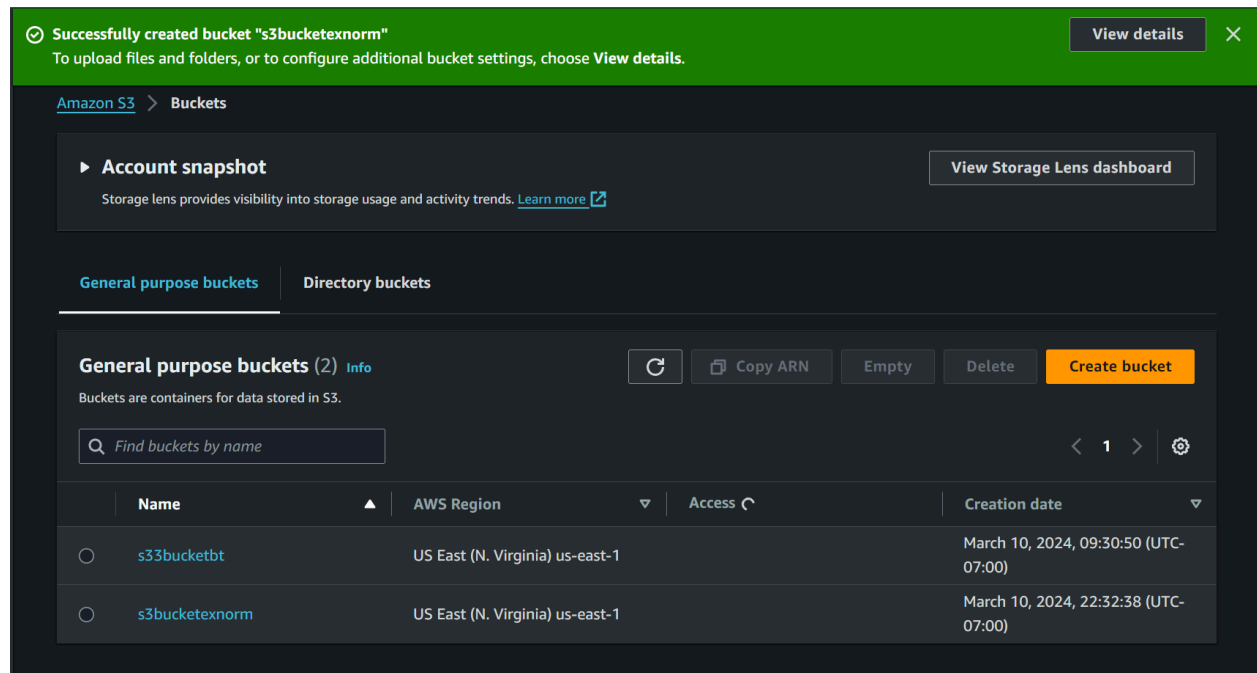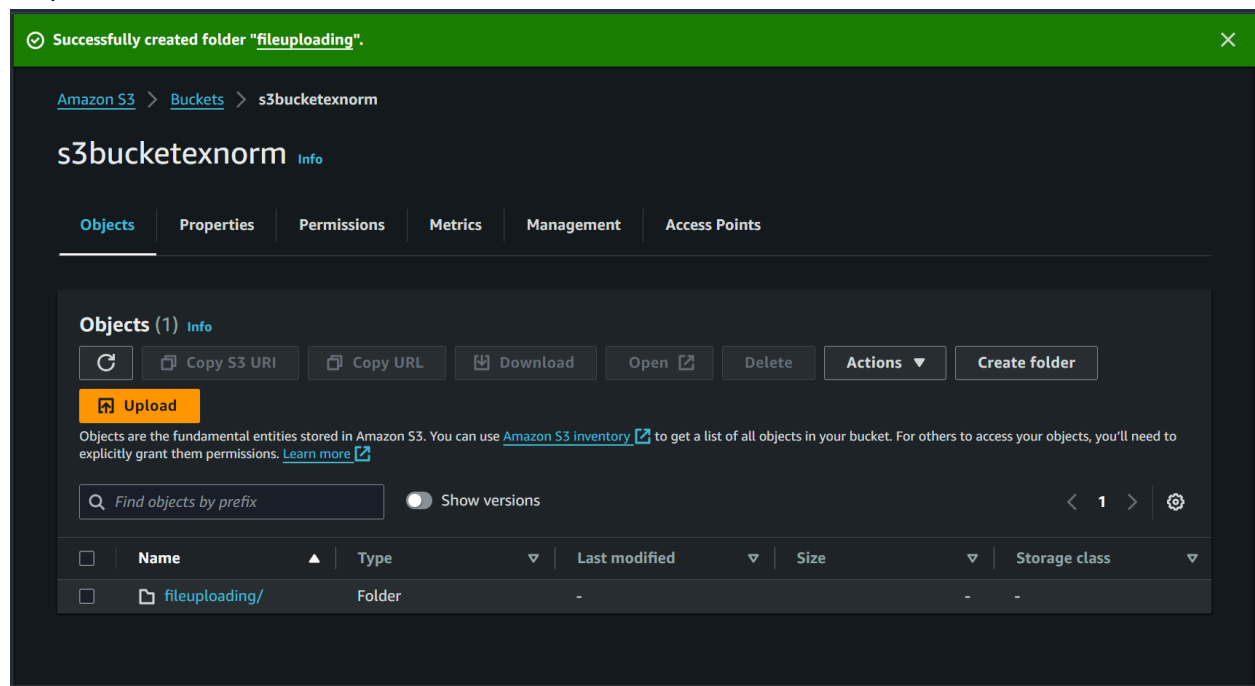Step 1: navigate to [Console Home | Console Home | us-east-1 (amazon.com)](#).

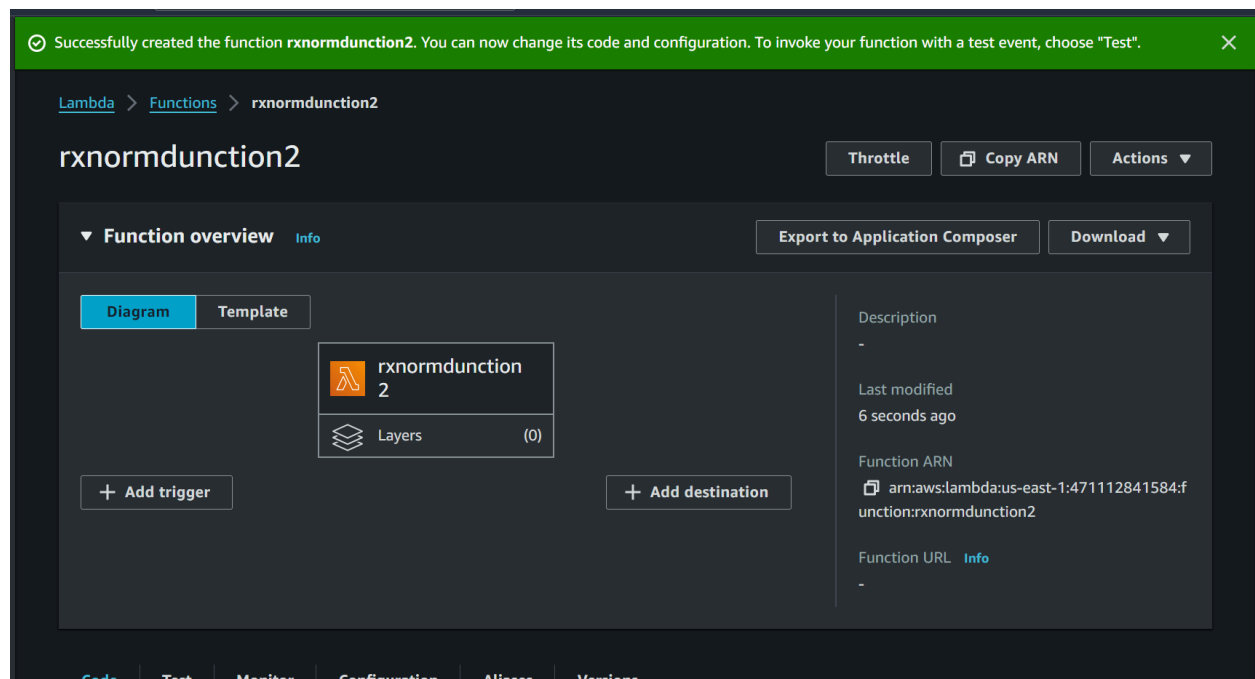
Step 2: Create a S3 Bucket

Step 3: Create a folder.

Step 4: Create a lambda function.

Step 5: Trigger the bucket

Lambda > Functions > **rxnormdunction2**

rxnormdunction2

[Throttle] [Copy ARN] [Actions ▼]

⊘ The trigger s3bucketexnorm was successfully added to function rxnormdunction2. The function is now receiving events from the trigger. ✕

▼ Function overview Info

[Export to Application Composer] [Download ▼]

[Diagram] [Template]

rxnormdunction
2

▤ Layers   (1)

🪣 S3

＋ Add destination

＋ Add trigger

Description
-

Last modified
1 minute ago

Function ARN
⧉ arn:aws:lambda:us-east-1:471112841584:f
unction:rxnormdunction2

Function URL   Info
-

Step 6: Deploy the code

⊘ Successfully updated the function **rxnormdunction2**. ✕

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)

▼ ▣ rxnormdunction2 - ⚙▾
    📄 lambda_function.py

lambda_function ✕   Environment Vari ✕ ⊕

```
1   import json
2   import boto3
3   from zipfile import ZipFile
4   import pandas as pd
5   from io import BytesIO
6   from datetime import datetime
7   import os
8
9   s3_client = boto3.client('s3')
10
11  def lambda_handler(event, context):
12      try:
13          # Extract bucket and key information from the S3 event
14          bucket = event['Records'][0]['s3']['bucket']['name']
15          key = event['Records'][0]['s3']['object']['key']
16
17          if key.endswith('.xlsx'):
18              handle_excel_upload(bucket, key)
19          elif key.endswith('.zip'):
20              handle_zip_upload(bucket, key)
```

Step 7: Upload the files

Upload: status

Close

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

Summary

Destination	Succeeded	Failed
s3://s3bucketexnorm	⊘ 2 files, 238.6 MB (100.00%)	⊖ 0 files, 0 B (0%)

Files and folders   **Configuration**

Files and folders (2 Total, 238.6 MB)

🔍 Find by name

< 1 >

Name	Folder ▽	Type ▽	Size ▽	Status ▽	Error ▽
RxNorm_full...	-	application/...	238.5 MB	⊘ Succeeded	-
RxNorm_He...	-	application/...	24.7 KB	⊘ Succeeded	-

Step 8: Check the uploaded files.

fileuploading/

🗗 Copy S3 URI

Objects   **Properties**

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

◯ Show versions

< 1 > ⚙

	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class ▽
☐	🗎 RXNATOMARCHIVE.txt	txt	March 10, 2024, 23:59:24 (UTC-07:00)	58.9 MB	Standard
☐	🗎 RXNCONSO.txt	txt	March 10, 2024, 23:59:33 (UTC-07:00)	138.5 MB	Standard
☐	🗎 RXNCUI.txt	txt	March 10, 2024, 23:59:34 (UTC-07:00)	2.1 MB	Standard
☐	🗎 RXNCUICHANGES.txt	txt	March 10, 2024, 23:59:34 (UTC-07:00)	17.9 KB	Standard
☐	🗎 RXNDOC.txt	txt	March 10, 2024, 23:59:34 (UTC-07:00)	271.8 KB	Standard
☐	🗎 RXNREL.txt	txt	March 11, 2024, 00:00:27 (UTC-07:00)	645.2 MB	Standard
☐	🗎 RXNSAB.txt	txt	March 11, 2024, 00:00:33 (UTC-07:00)	10.5 KB	Standard
☐	🗎 RXNSAT.txt	txt	March 11, 2024, 00:01:12 (UTC-07:00)	622.4 MB	Standard
☐	🗎 RXNSTY.txt	txt	March 11, 2024, 00:01:20 (UTC-07:00)	26.1 MB	Standard

Step 9: Check the cloudwatch.

CloudWatch > Log groups > /aws/lambda/rxnormdunction2 >
2024/03/11/[$LATEST]6da460e6006c440a9ca19395104e4cd5

Log events

[C]   Actions ▼   Start tailing   Create metric filter

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 [↗]

Q Filter events   1m   1h   ▦   Local timezone ▼   Display ▼   ⚙

▶	Timestamp	Message
		No older events at this moment. *Retry*
▶	2024-03-10T23:58:07.547-07:00	INIT_START Runtime Version: python:3.12.v20 Runtime Version ARN: arn:aws:lam…
▶	2024-03-10T23:58:10.104-07:00	START RequestId: d6daf805-1385-402f-a95d-bf108ad59b05 Version: $LATEST
▶	2024-03-10T23:58:10.105-07:00	.zip file uploaded: RxNorm_full_02052024.zip
▶	2024-03-10T23:58:12.653-07:00	Transformation Started
▶	2024-03-10T23:59:20.482-07:00	File Name Before Conversion After Conversion
▶	2024-03-10T23:59:20.482-07:00	0 RXNATOMARCHIVE 371368 371368
▶	2024-03-10T23:59:20.482-07:00	1 RXNCONSO 1133065 1133065
▶	2024-03-10T23:59:20.482-07:00	2 RXNCUI 30046 30046
▶	2024-03-10T23:59:20.482-07:00	3 RXNCUICHANGES 153 153
▶	2024-03-10T23:59:20.482-07:00	4 RXNDOC 3445 3445
▶	2024-03-10T23:59:20.482-07:00	5 RXNREL 7154306 7154306
▶	2024-03-10T23:59:20.482-07:00	6 RXNSAB 13 13
▶	2024-03-10T23:59:20.482-07:00	7 RXNSAT 7222404 7222404
▶	2024-03-10T23:59:20.482-07:00	8 RXNSTY 461874 461874
▶	2024-03-10T23:59:23.695-07:00	RXNATOMARCHIVE.txt is saved
▶	2024-03-10T23:59:33.593-07:00	RXNCONSO.txt is saved
▶	2024-03-10T23:59:33.730-07:00	RXNCUI.txt is saved
▶	2024-03-10T23:59:33.777-07:00	RXNCUICHANGES.txt is saved
▶	2024-03-10T23:59:33.887-07:00	RXNDOC.txt is saved
▶	2024-03-11T00:00:32.361-07:00	RXNREL.txt is saved
▶	2024-03-11T00:00:32.409-07:00	RXNSAB.txt is saved
▶	2024-03-11T00:01:18.312-07:00	RXNSAT.txt is saved
▶	2024-03-11T00:01:19.887-07:00	RXNSTY.txt is saved
▶	2024-03-11T00:01:19.887-07:00	Transformation Completed