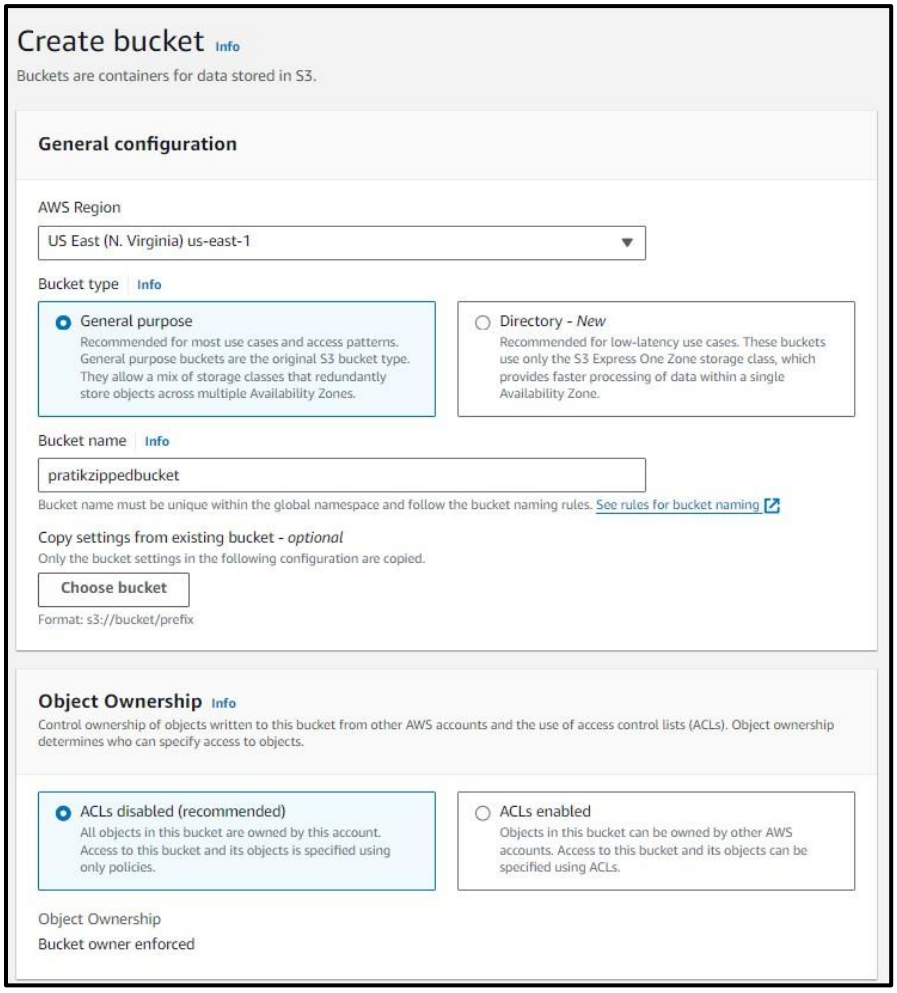
Task 2: Python and Lambda

Work with RXNORM file,

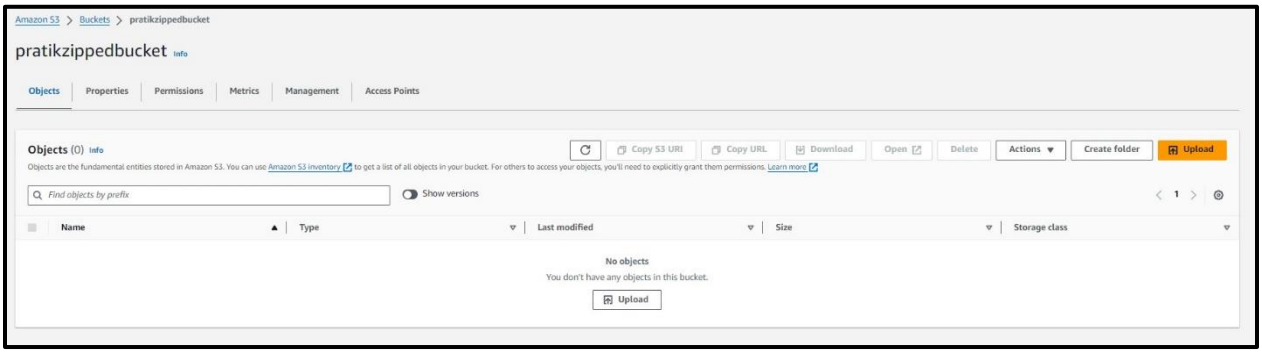
- ~~Scrap the latest RXNORM file from NLM webpage.~~
- ~~Download the latest RXNORM file with api_key~~
- ~~Create a log file for the downloaded file.~~
- Add header into each rff from RXNORM.xlsx.
- Add CODE_SET & VERSION_MONTH column with default values RxNorm and version month from downloaded filename.
- Convert dates into YYYY-MM-DD
- Save files as txt delimited by comma (,)
- Validate row_count between original and converted files.

1. Creating Bucket

A bucket is created to store the zip file containing the (.RFF) files, Excel file and the files created after transformations and headers are applied.

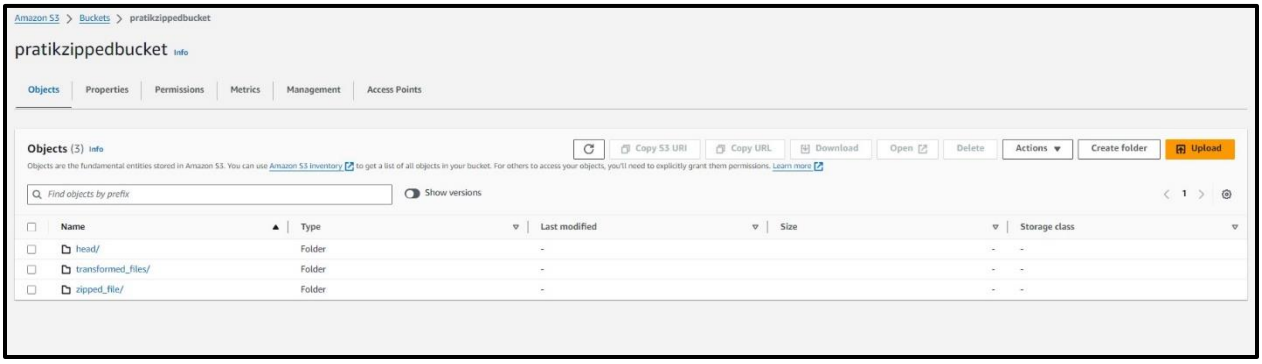


2. Bucket Created Successfully



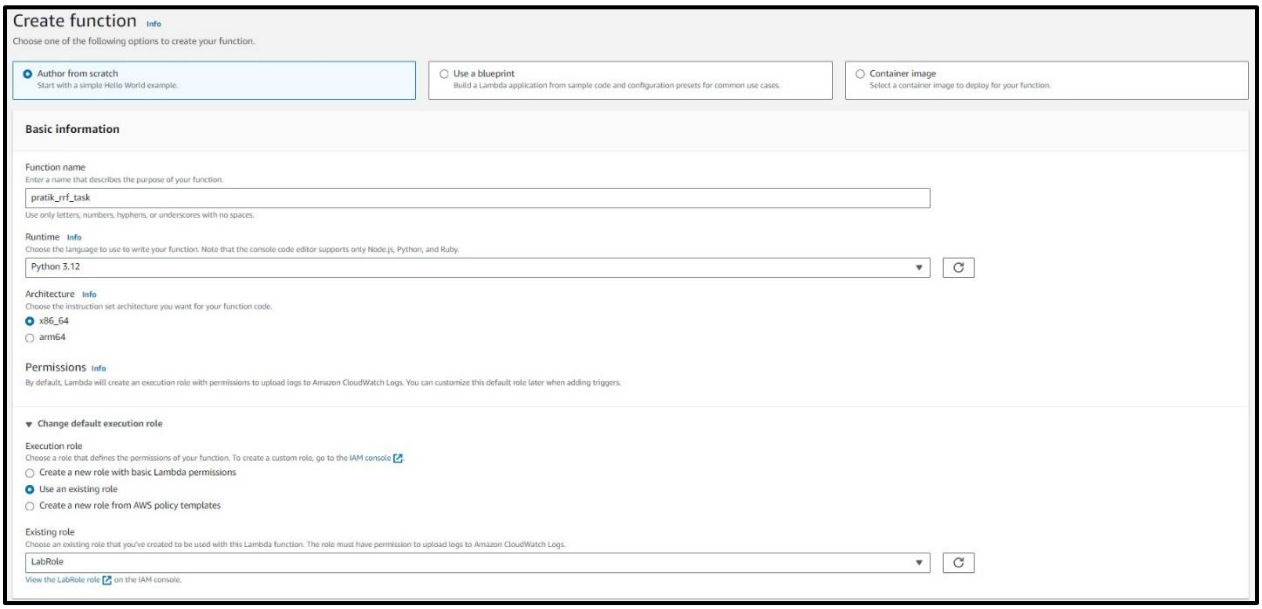
3. Directories Created

Multiple directories are created to store the Zip file, Excel file and the Transformed files.

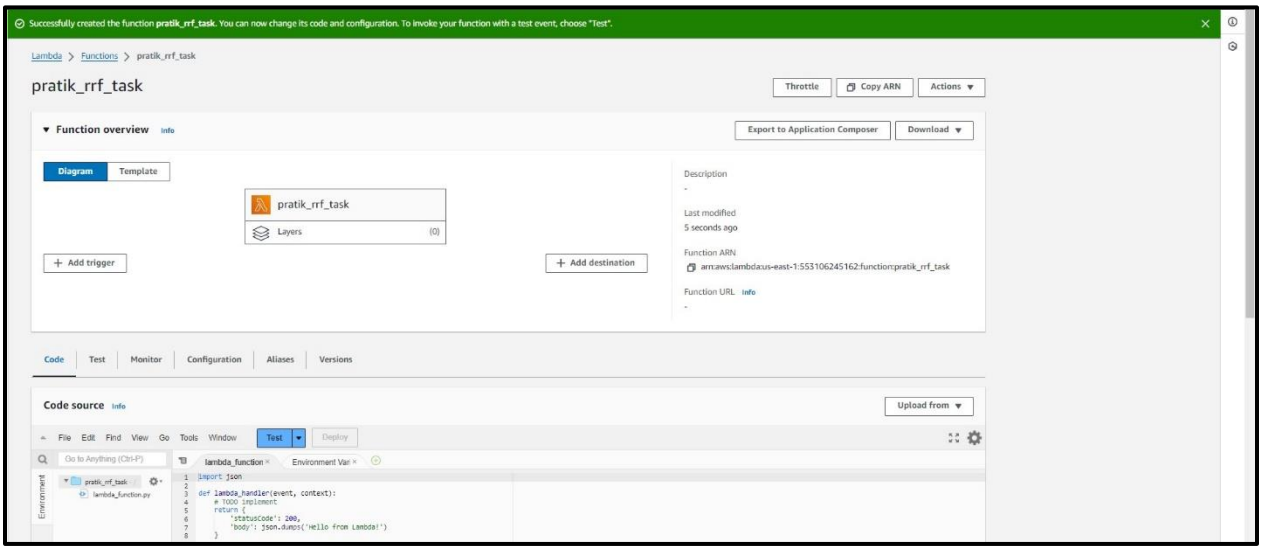


4. AWS Lambda Function

A Lambda Function is created for the processing the files per task requirements. Python runtime is selected and LabRole permission is assigned,

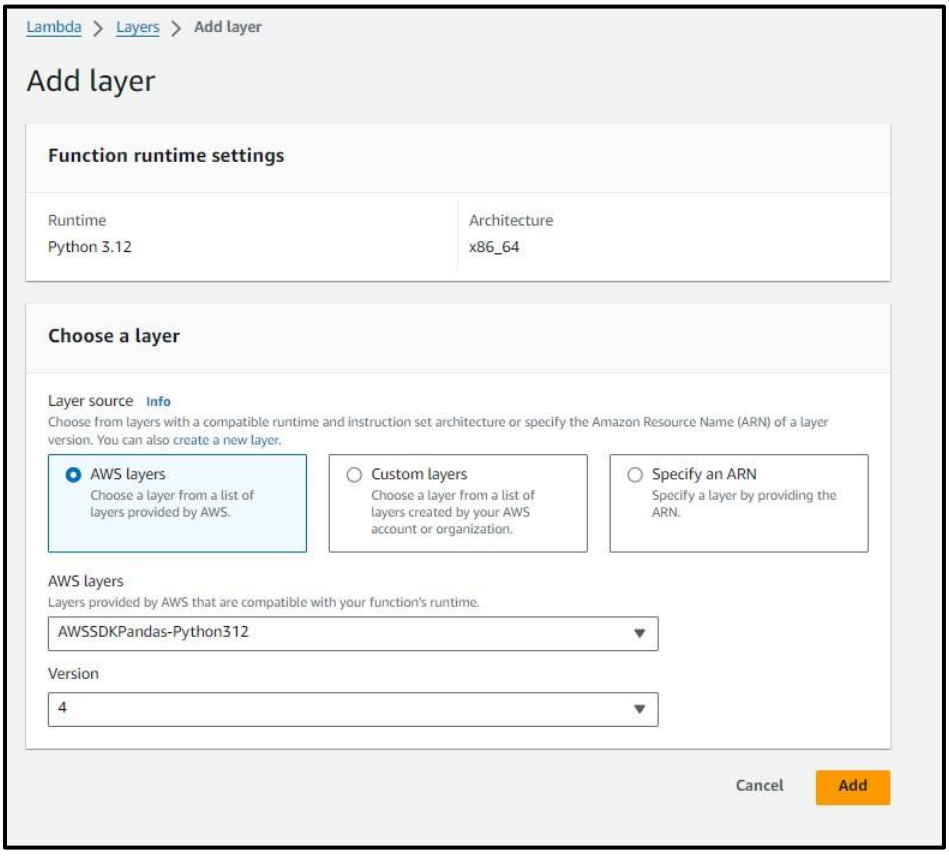


5. AWS Lambda Created



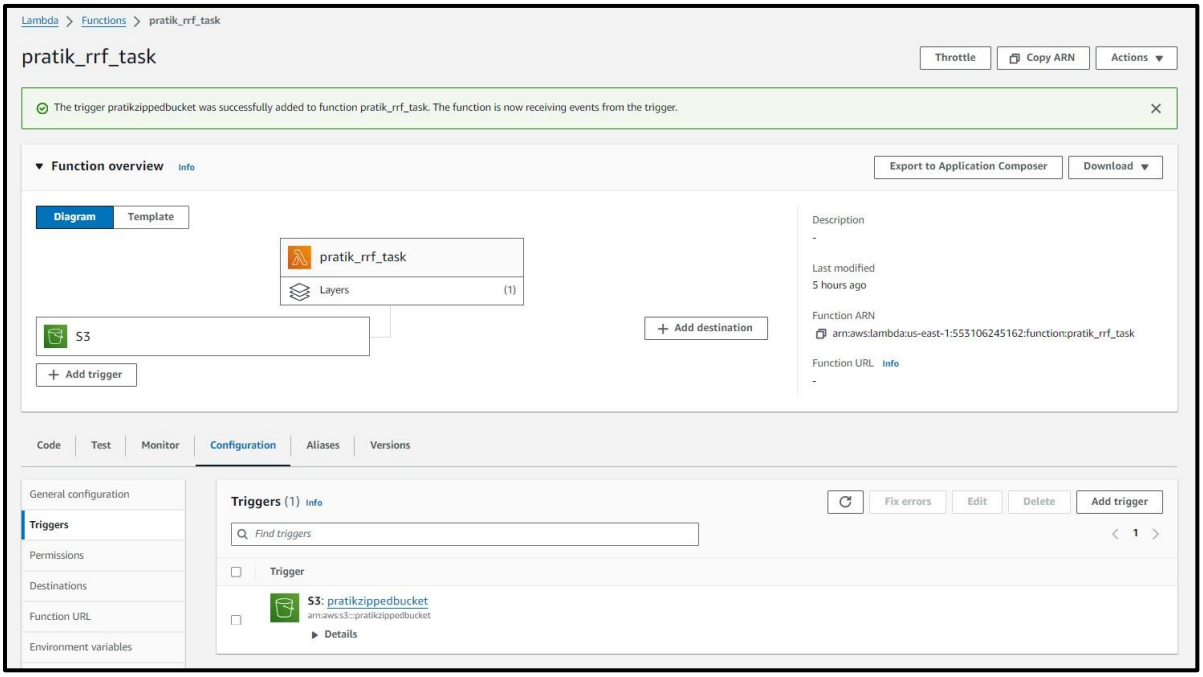
6. Lambda Layers

Pandas Layer is added to the Lambda for processing the files per task requirements.



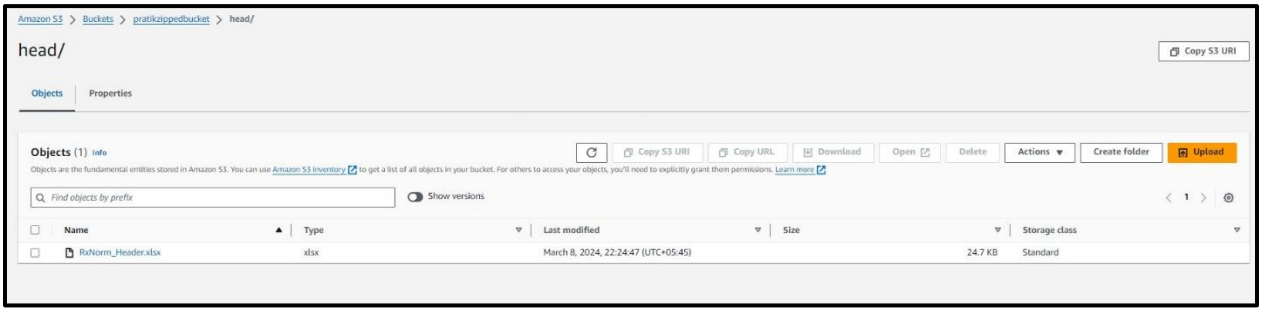
7. Adding Trigger

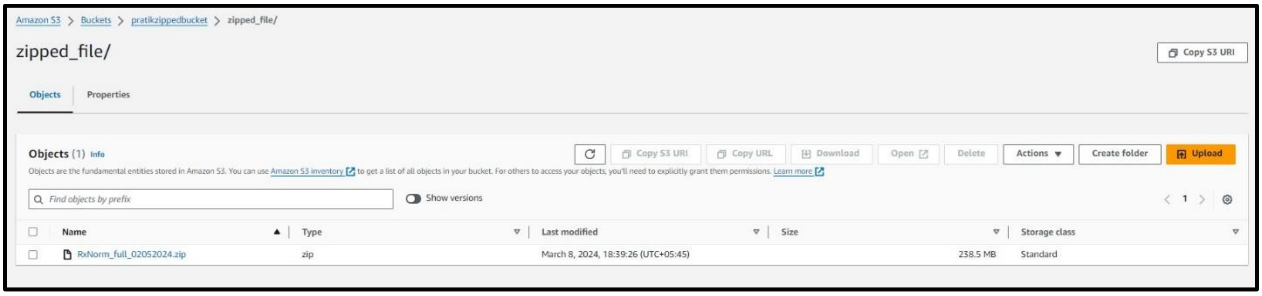
Previously created S3 bucket is added as trigger to process the files in AWS Lambda



8. Uploading Required Files

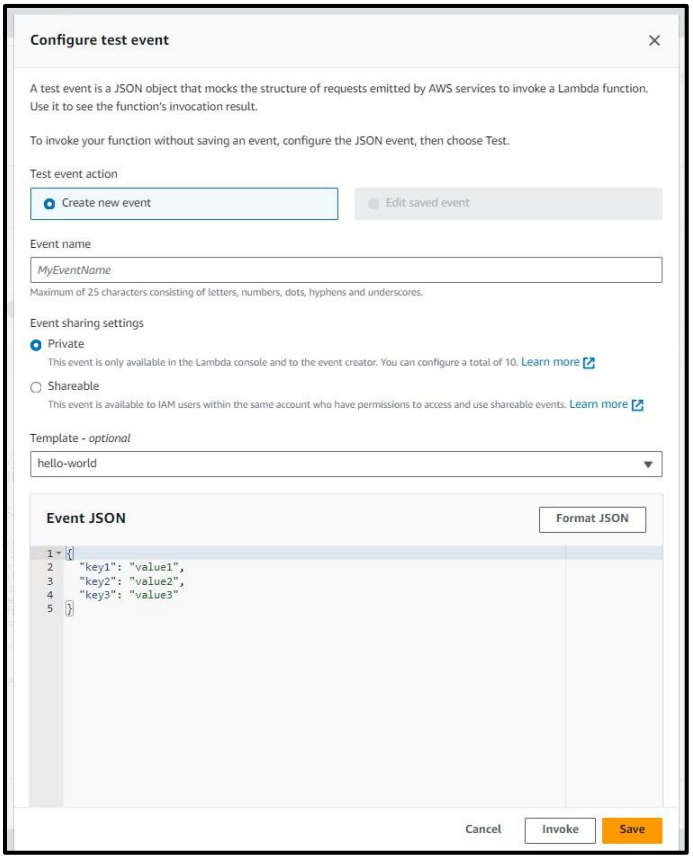
All files required are uploaded.





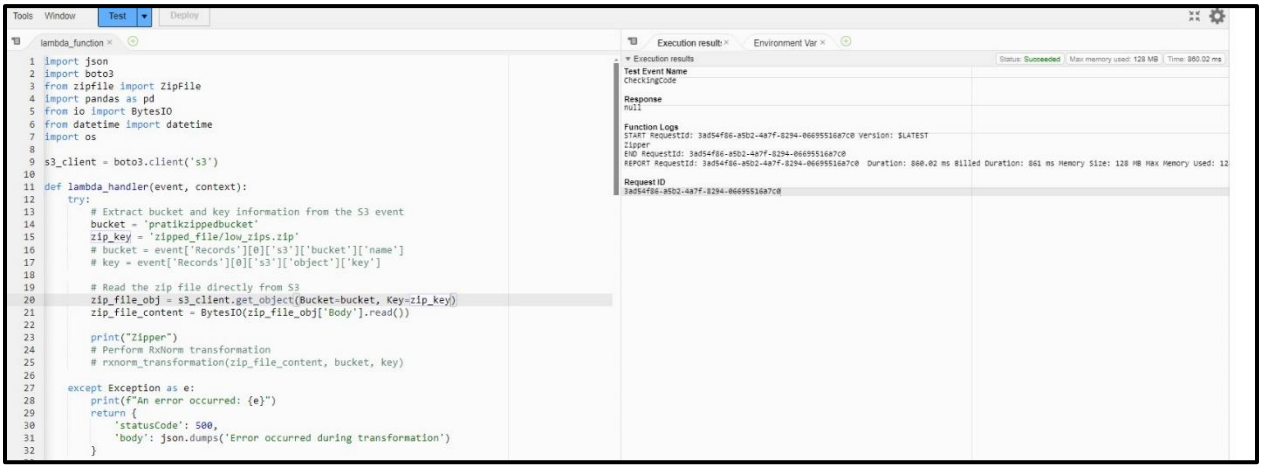
9. Configuring Test Event

A simple test event is made to check for correct functioning of the code.



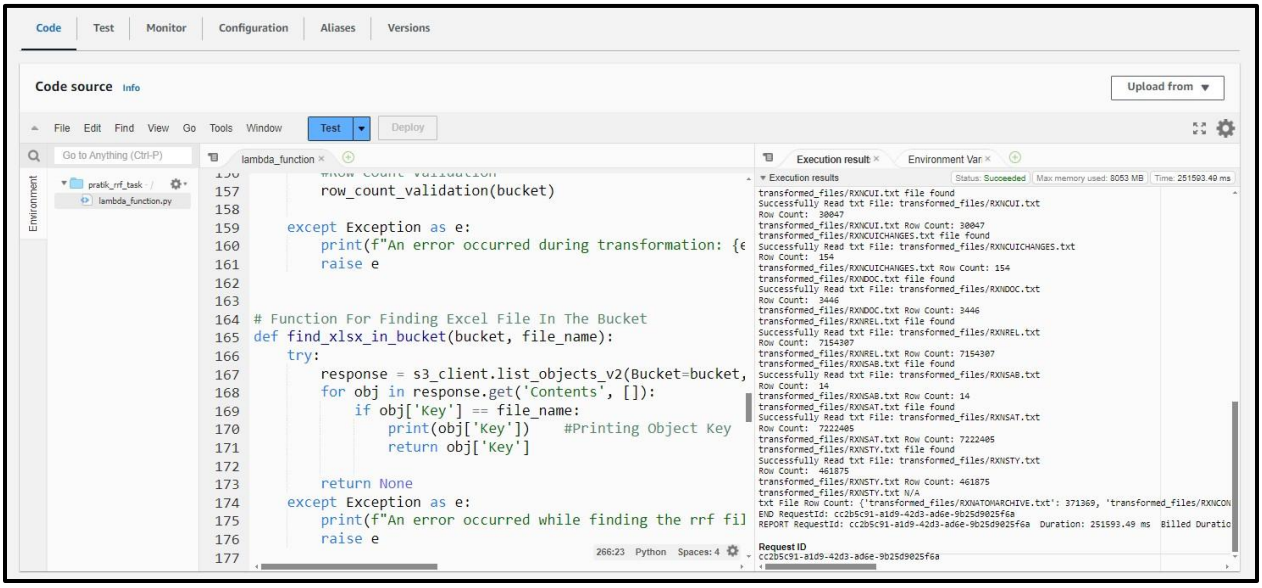
10. Reading Zip File

Code to Read Zip file.



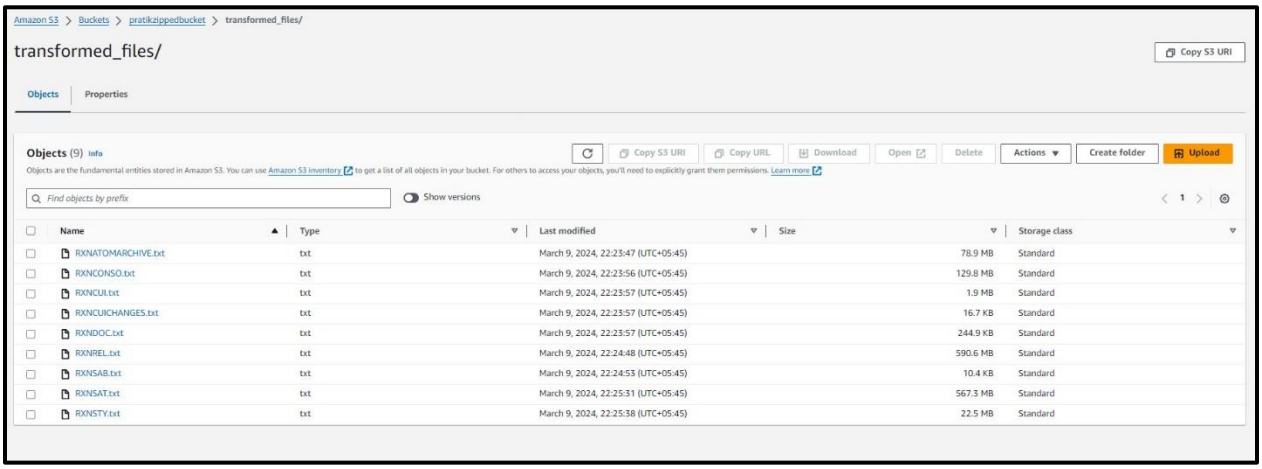
11. Complete Code

Code is Completed and tested. It shows the execution result on the right.



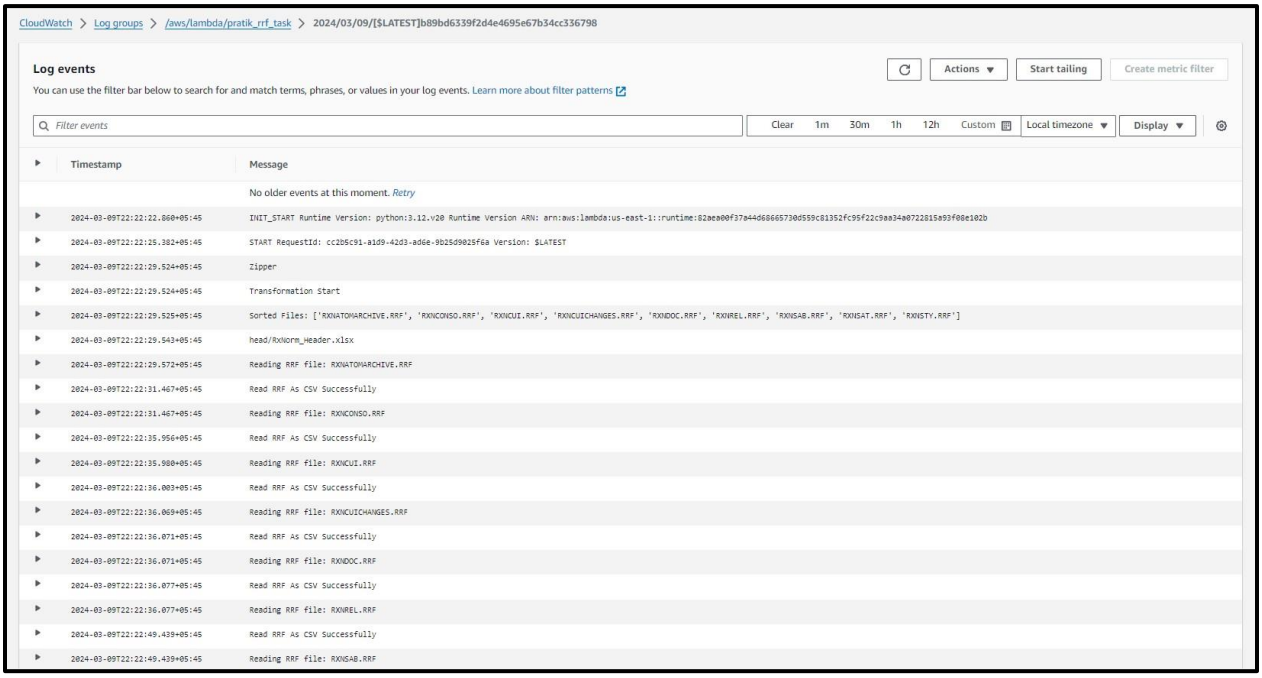
12. Transformed Files

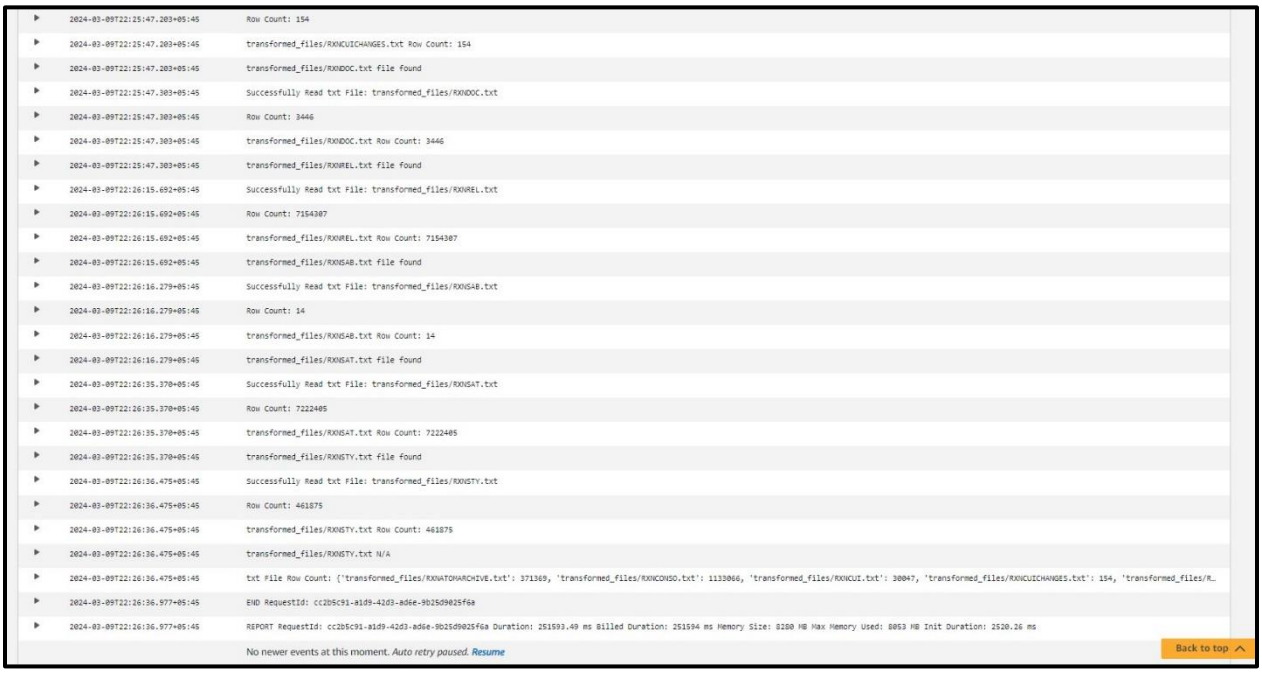
After execution, headers are added, delimiter is changed to comma(,), and date format is changed.



13. CloudWatch Logs

CloudWatch Logs for the execution. Below is screenshots for the start and end of the logs. The logs itself is uploaded in a different file.





14. Architecture