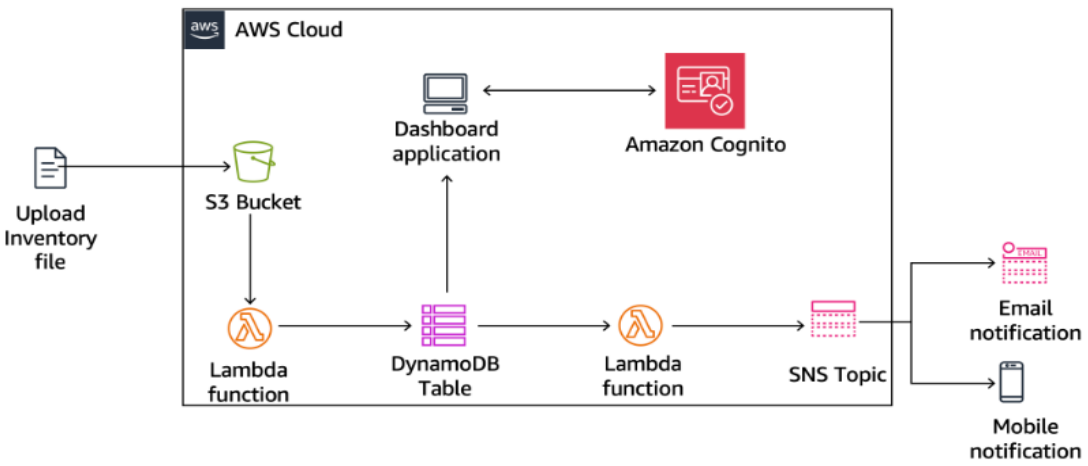
1- Architecture Overview

step 1 : Upload an inventory file to an S3 bucket.

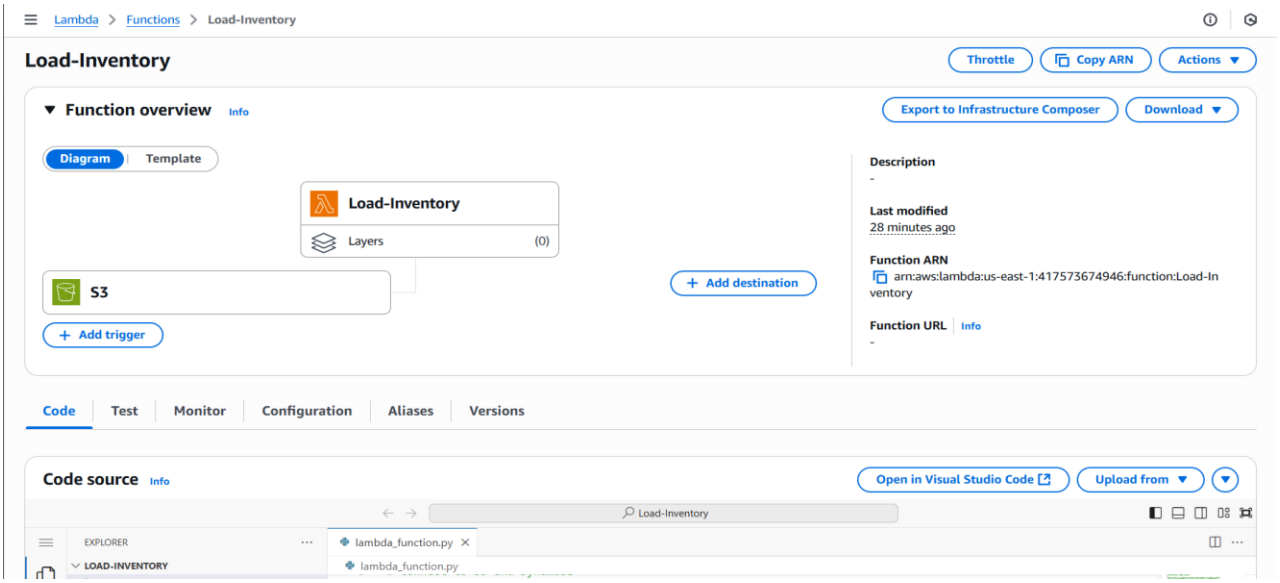
step 2 : An Amazon S3 upload event calls the Lambda function.

step 3 : The Lambda function insert items into the DynamoDB table.

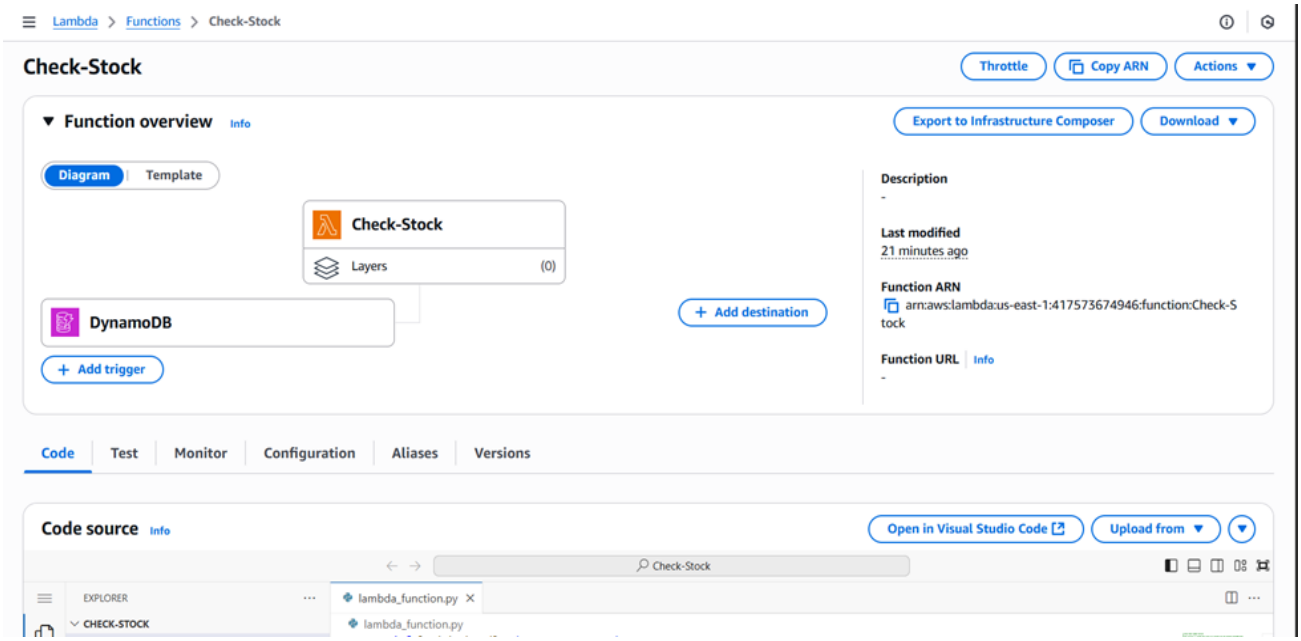
step 4 : The next Lambda function is invoked through Amazon DynamoDB Streams when the record is inserted. If no inventory is found, a notification is sent to an SNS topic.



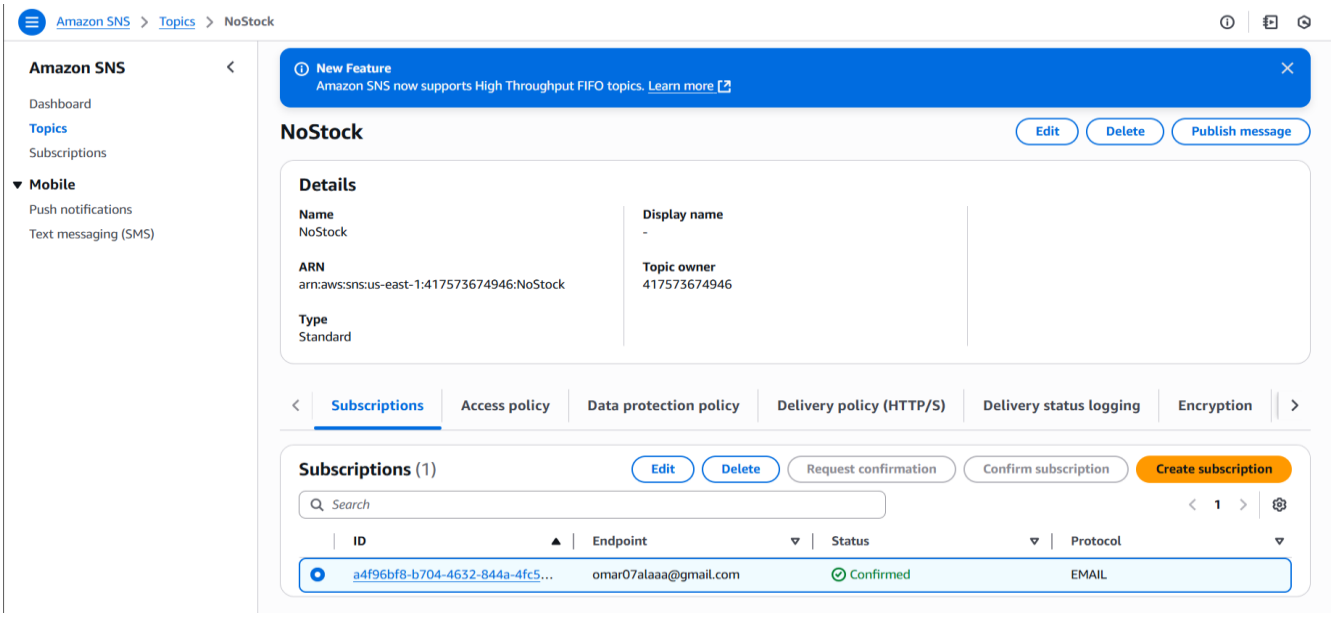
2-Create lambda function that reads the file and inserts information into a DynamoDB table and give it IAM role This role gives the Lambda function permission to access Amazon S3 and DynamoDB.



3- Create another Lambda function that looks at inventory while it is loaded into the DynamoDB table. If the Lambda function notices that an item is out of stock, it sends a notification through the SNS topic that you created earlier.

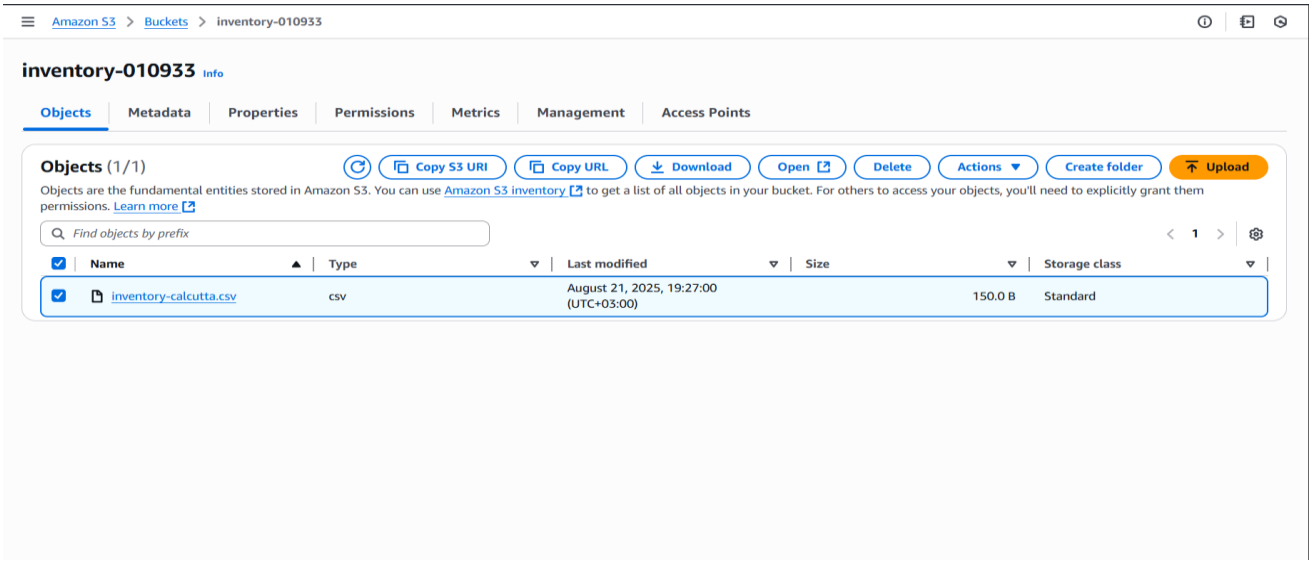


4- create SNS Topic and subscribe to the topic .

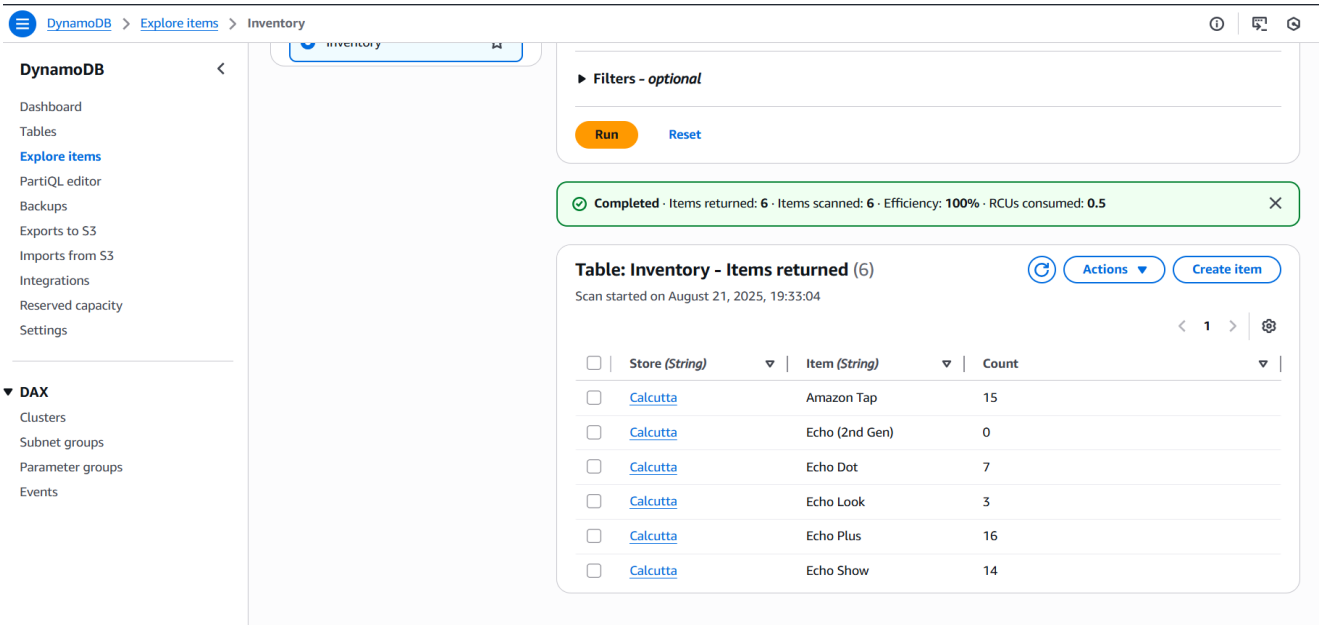


5- After uploading an inventory file to Amazon S3, which invokes the original Load-Inventory function. This function loads data into DynamoDB, which then invokes the new Check-Stock Lambda function. If the Lambda function detects an item with zero inventory, it sends a message to Amazon SNS. Then, Amazon SNS notifies you through SMS or email.

- upload an inventory file



- data loaded into dynamdb table



- Amazon SNS sends notification through email notifies you that item out of stock .