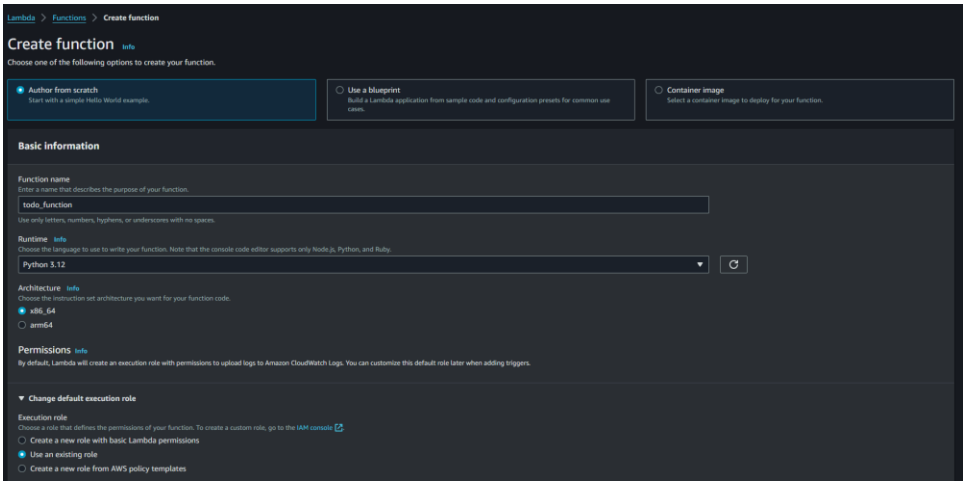
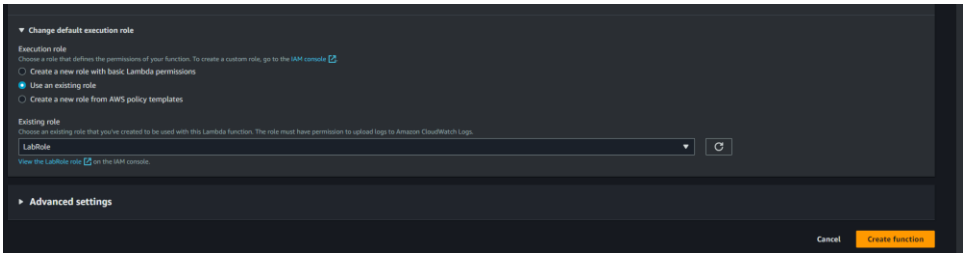
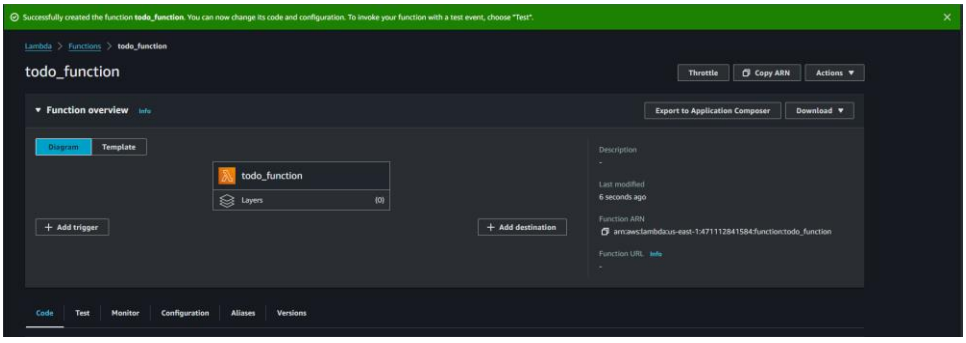
Creating a Serverless API



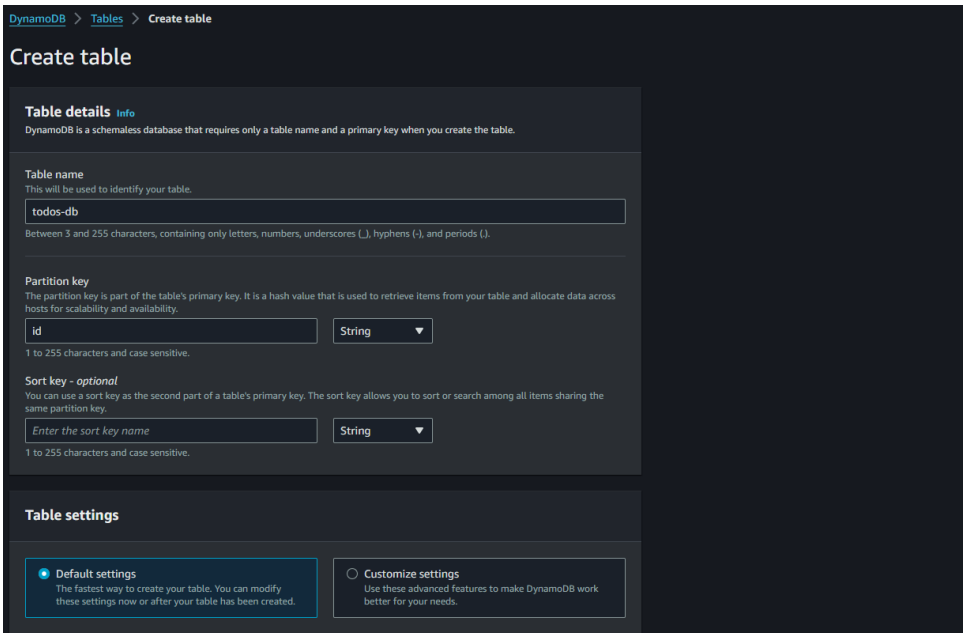
Step1: Configure the lambda function



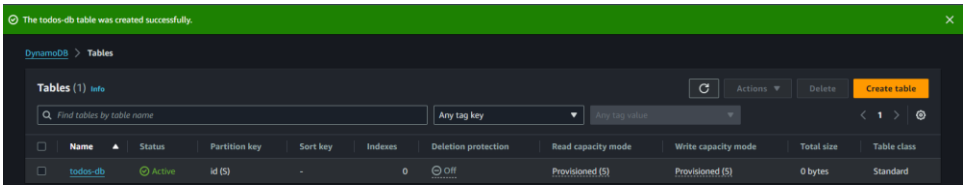
Step 2: Existing role, LabRole selected



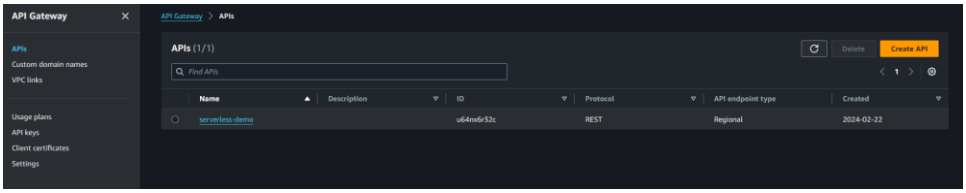
Step 3: Successfully created the lambda function



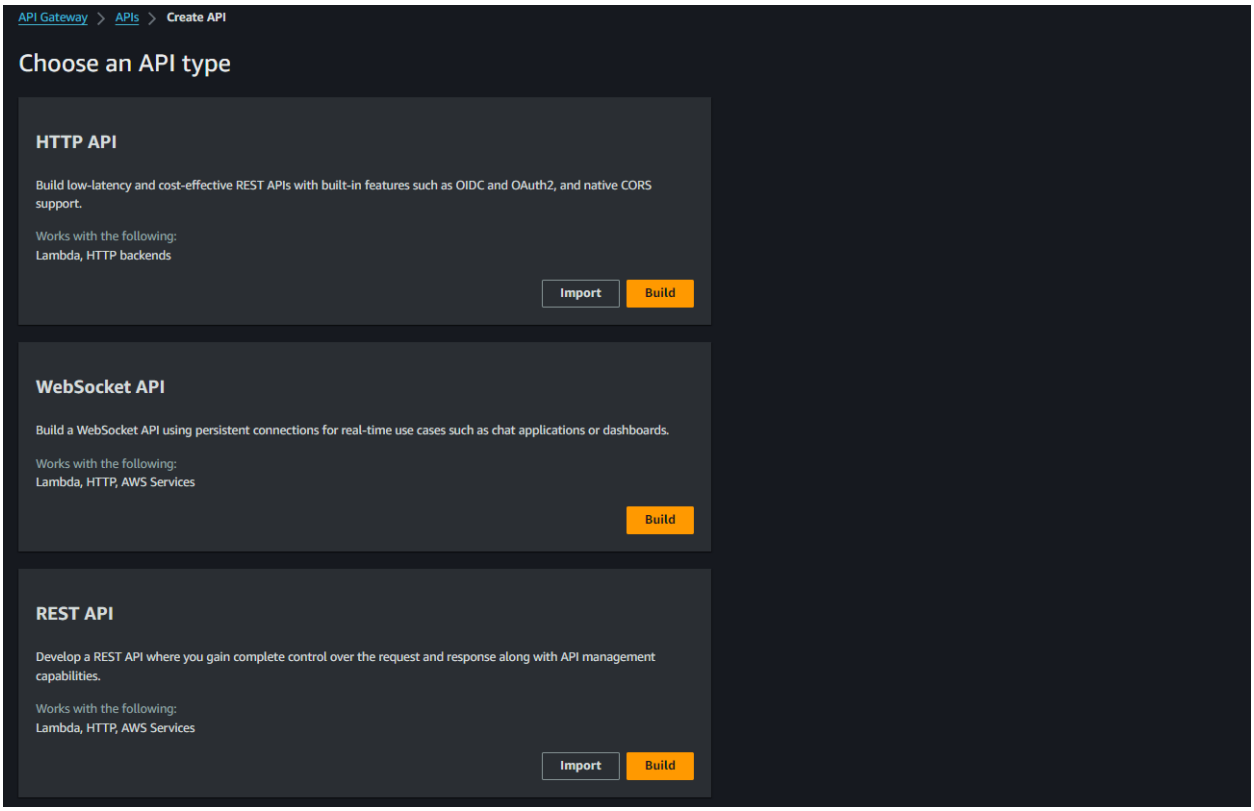
Step 4: Configured the dynamoDB, adding the table name and partition key



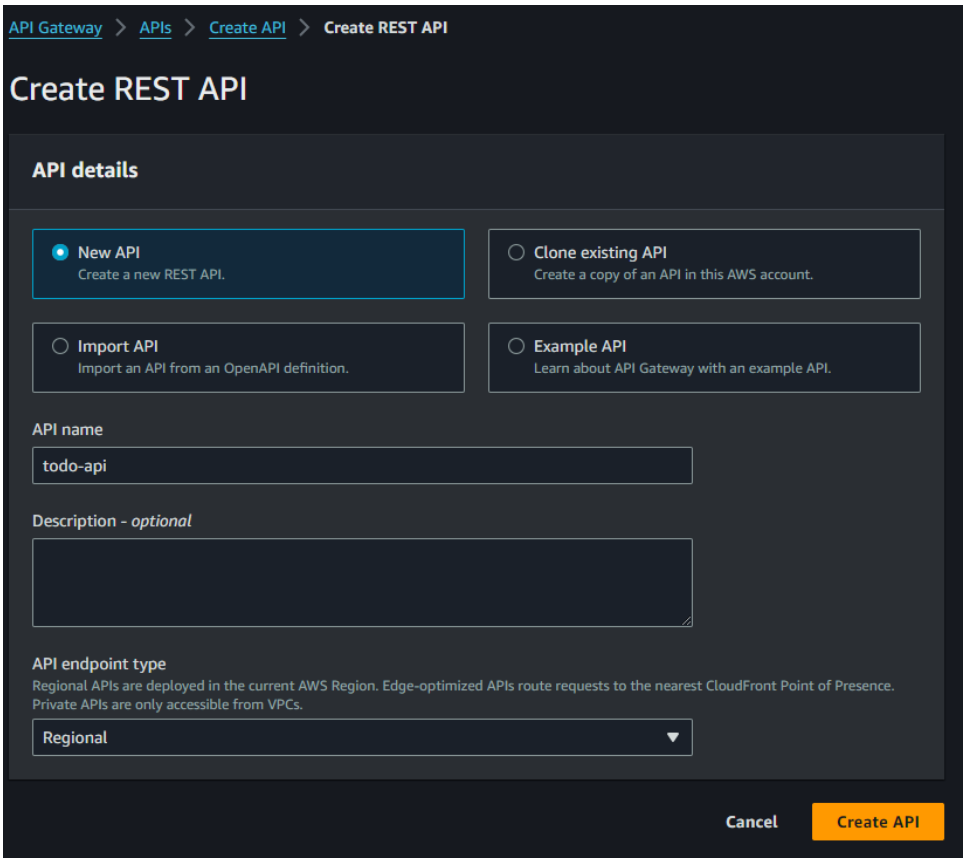
Step 5: New database table created successfully



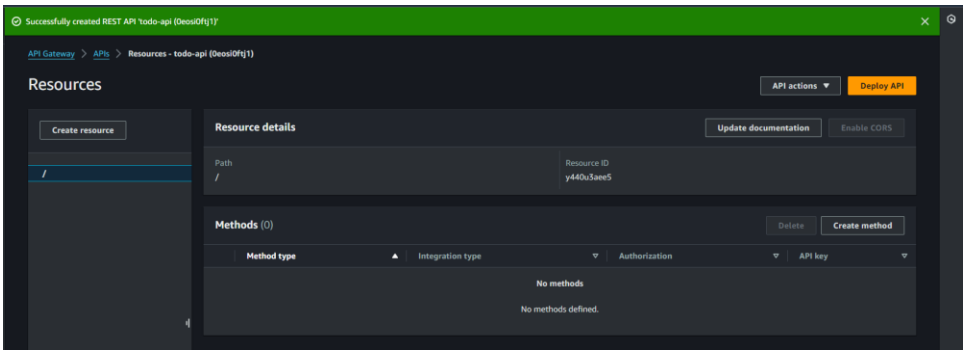
Step 6: Go to api gateway and click on create api to create the rest apis



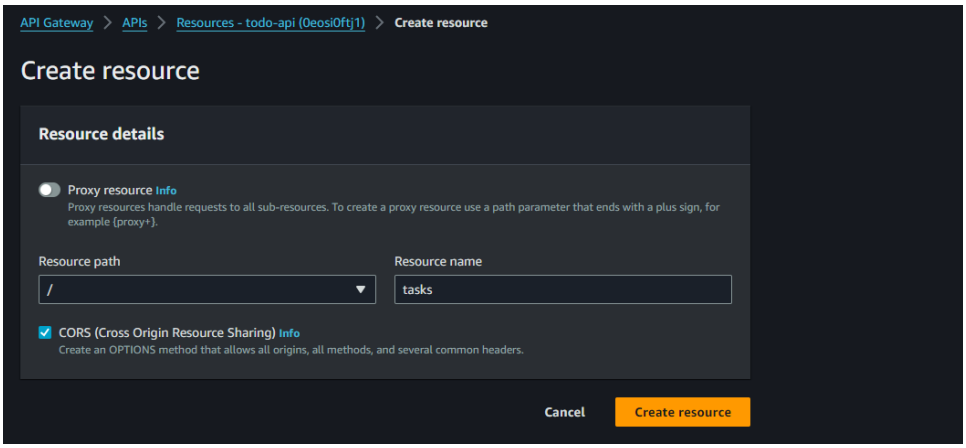
Step 7: Choose the rest api and click on build



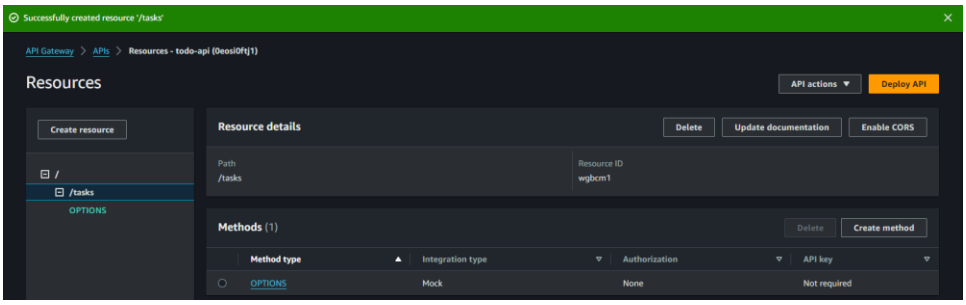
Step 8: Add the rest api name and click on create api



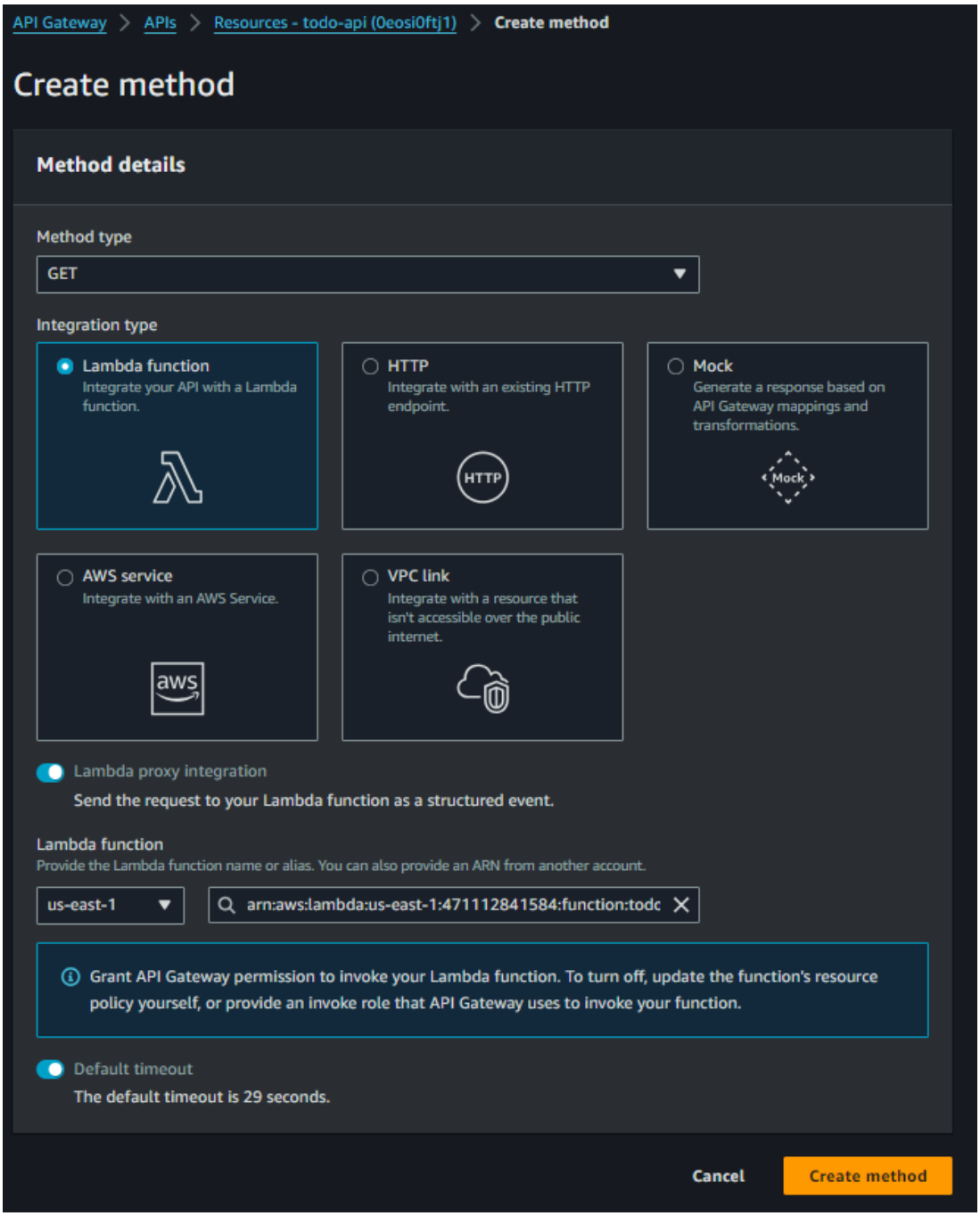
Step 9: Successfully created the api gateway



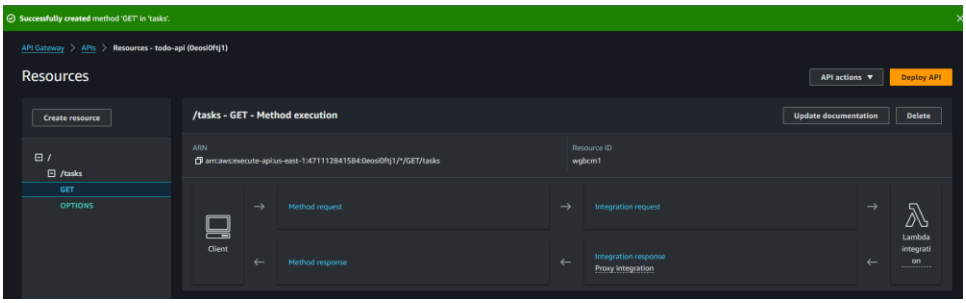
Step 10: Add the resource tasks and enable the cors and click on the create resource



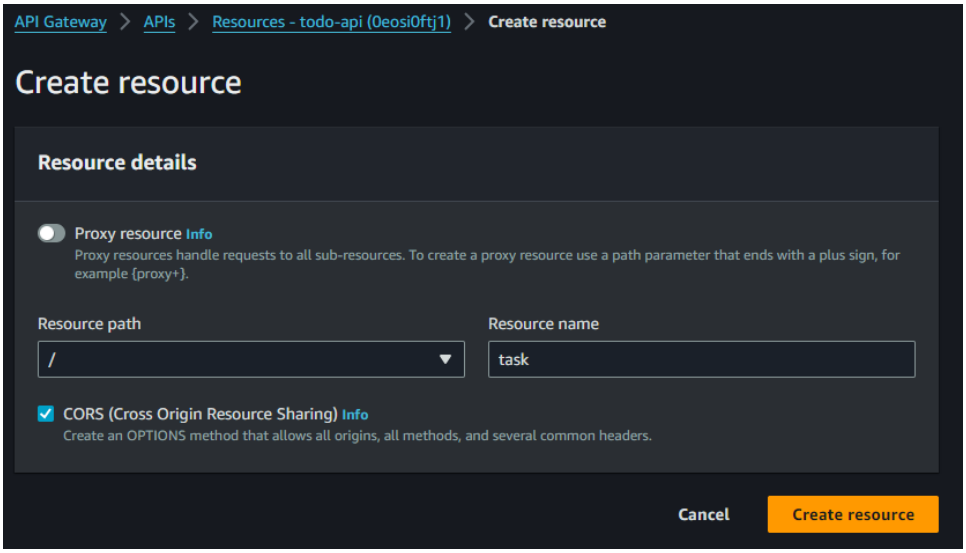
Step 11: Resources successfully created and clicked on the create method to create different methods



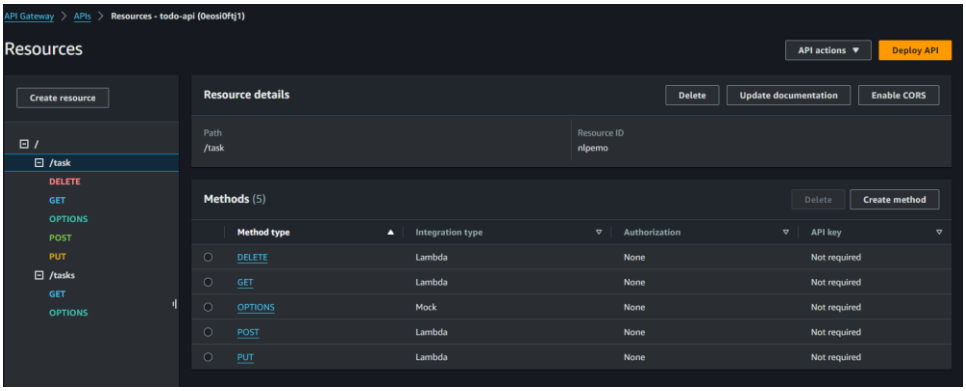
Step 12: Creating the get method enabling the lambda proxy integration and choosing the lambda function and click on the create method



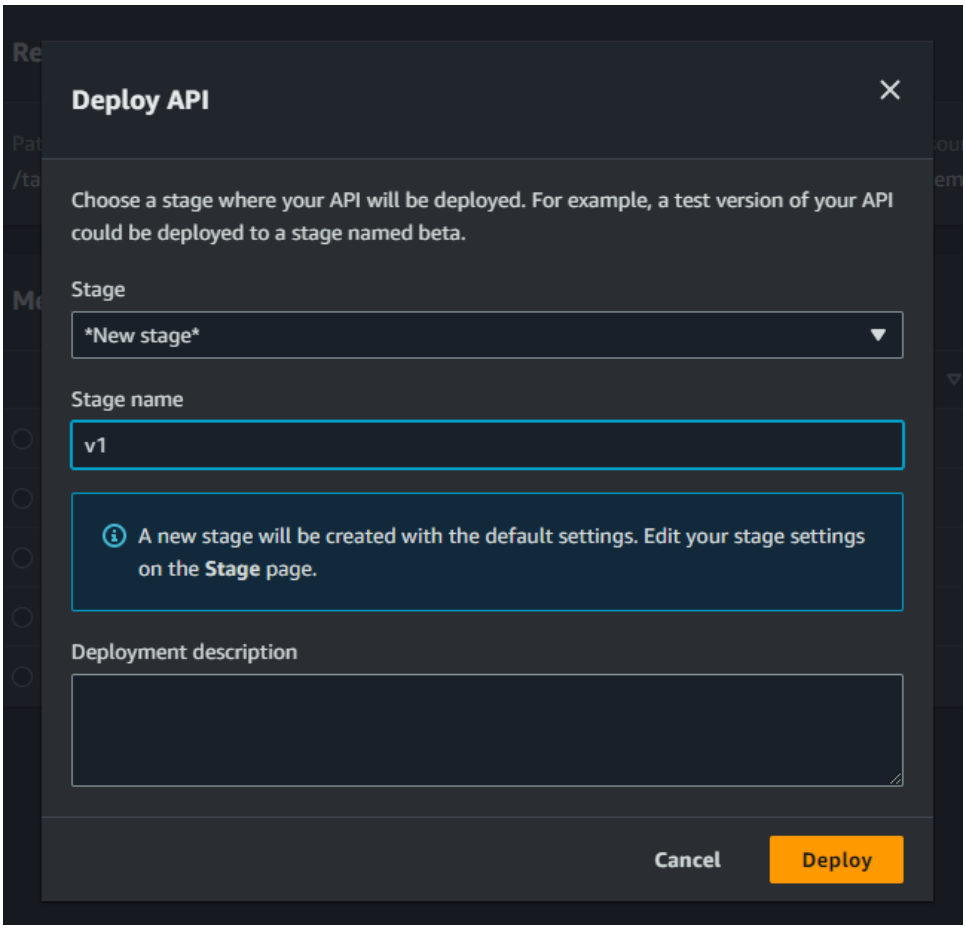
Step 13: Get method created successfully.



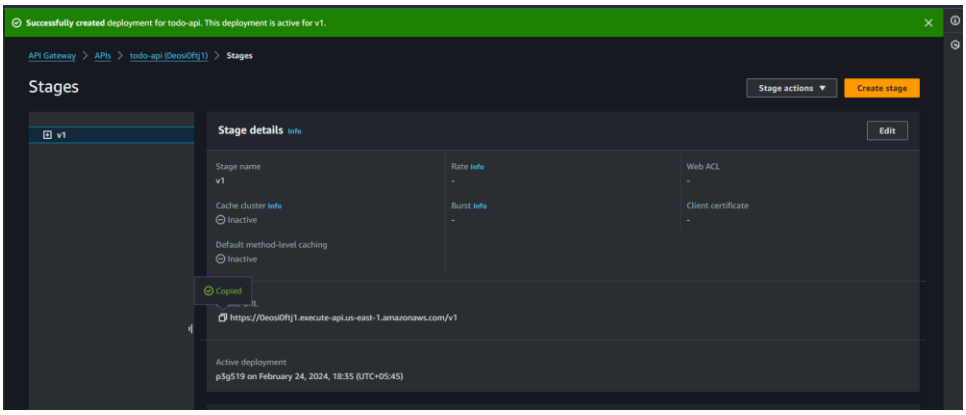
Step 14: Similarly, add the task resource



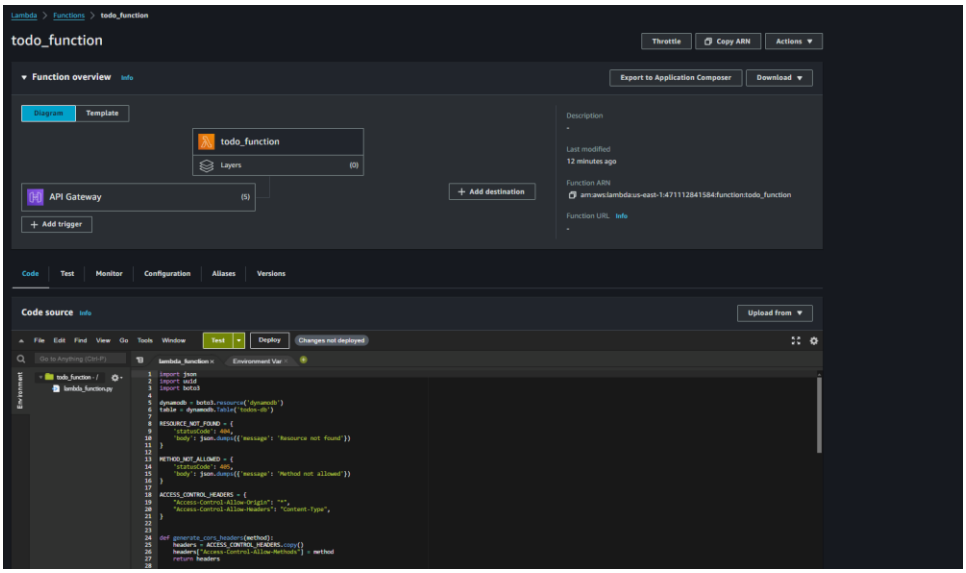
Step 15: Added all methods for the task resource and click on the **Deploy Api** to deploy all rest apis



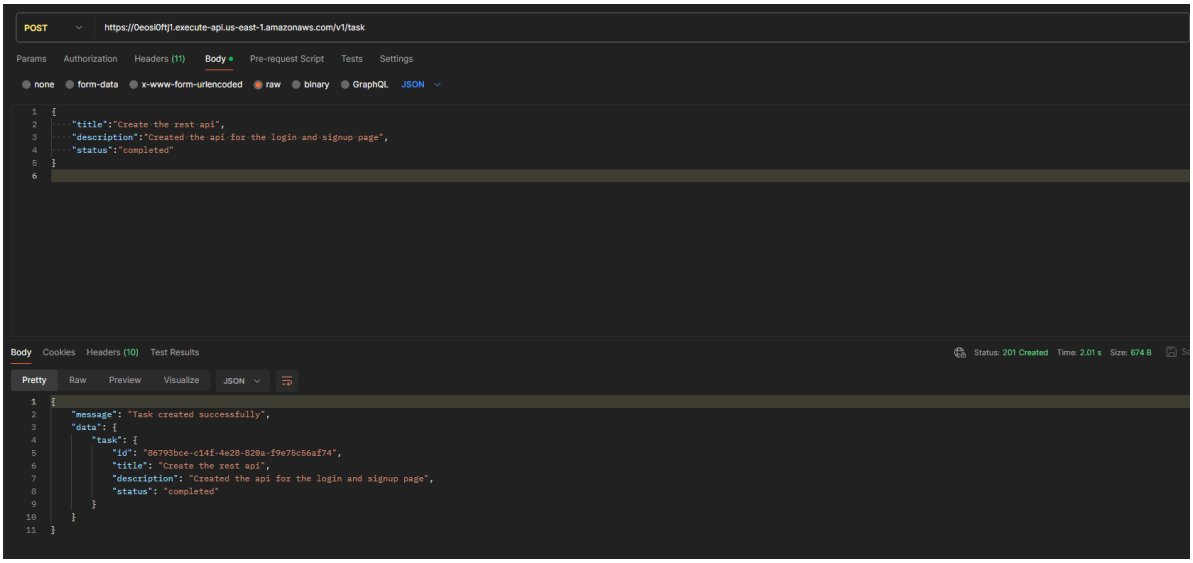
Step 16: Add the stage name and click on deploy



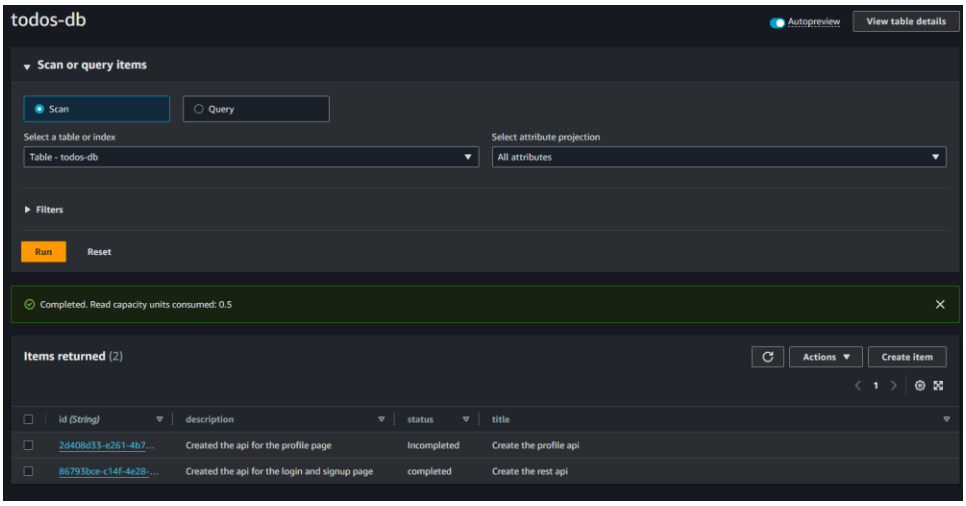
Step 17: Api Deployed



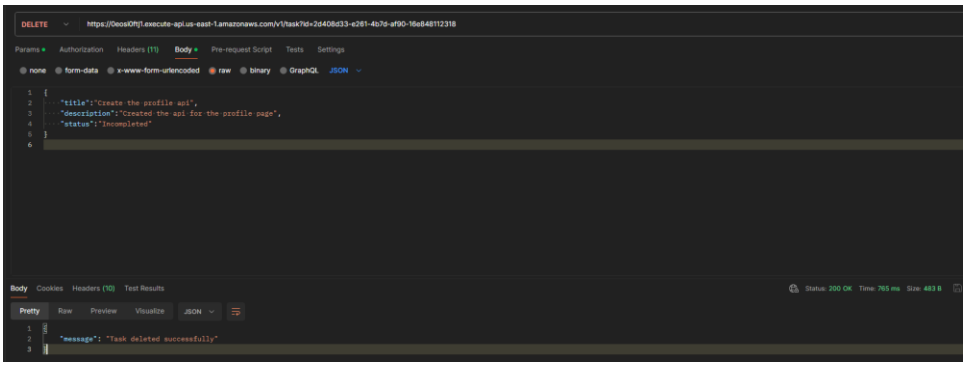
Step 18: Add the code of the rest apis in the lambda function and click on deploy



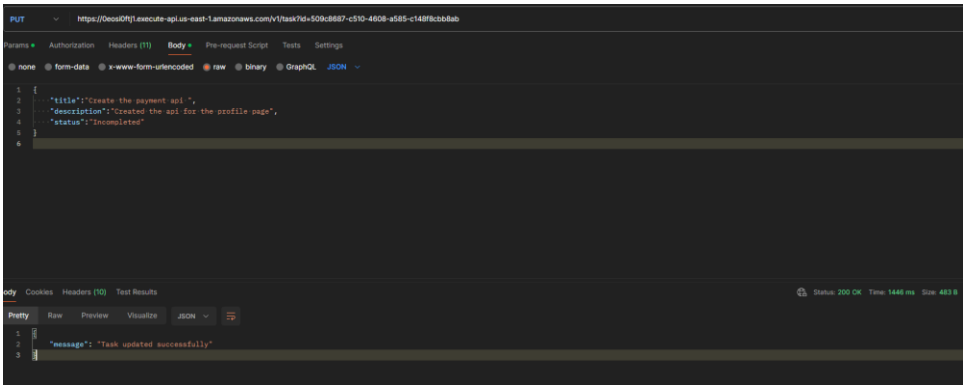
Post Request



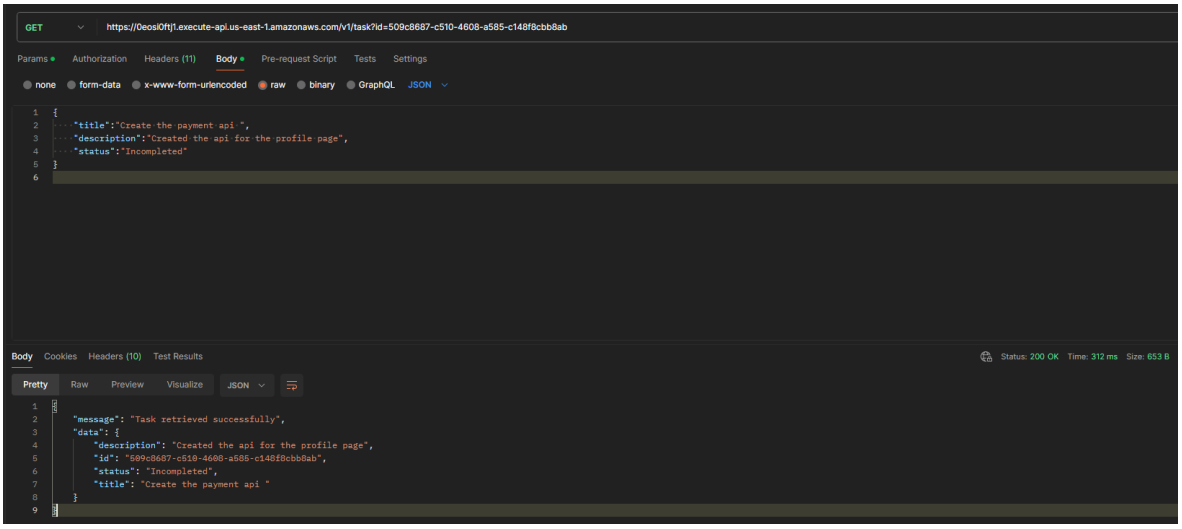
All items in the table



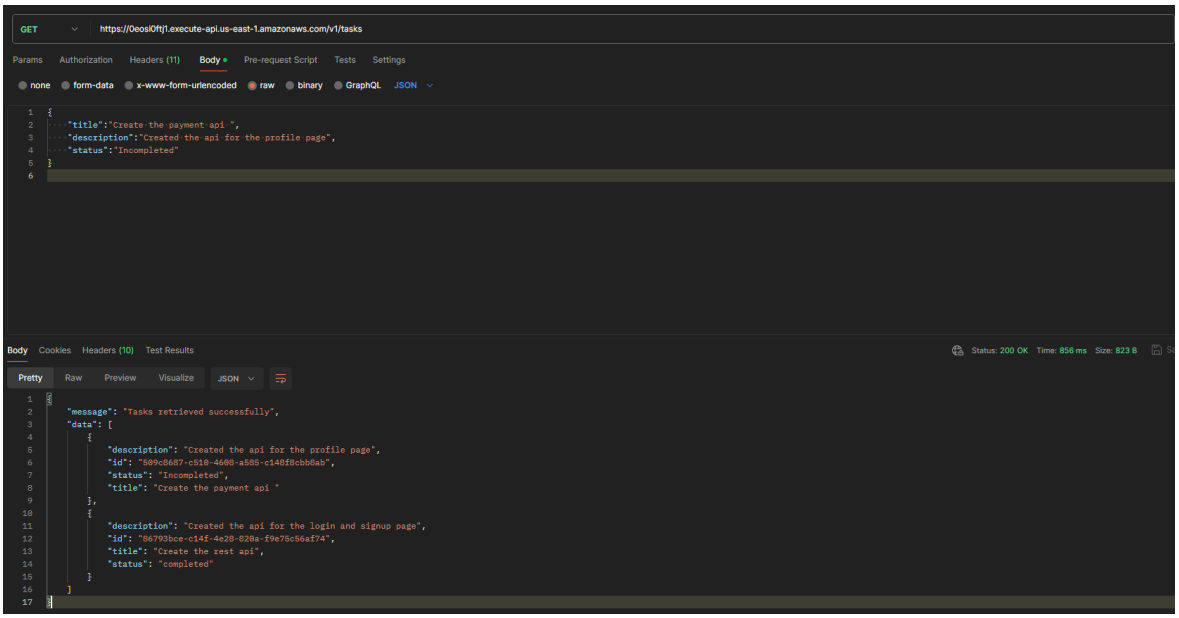
Delete method



Put method

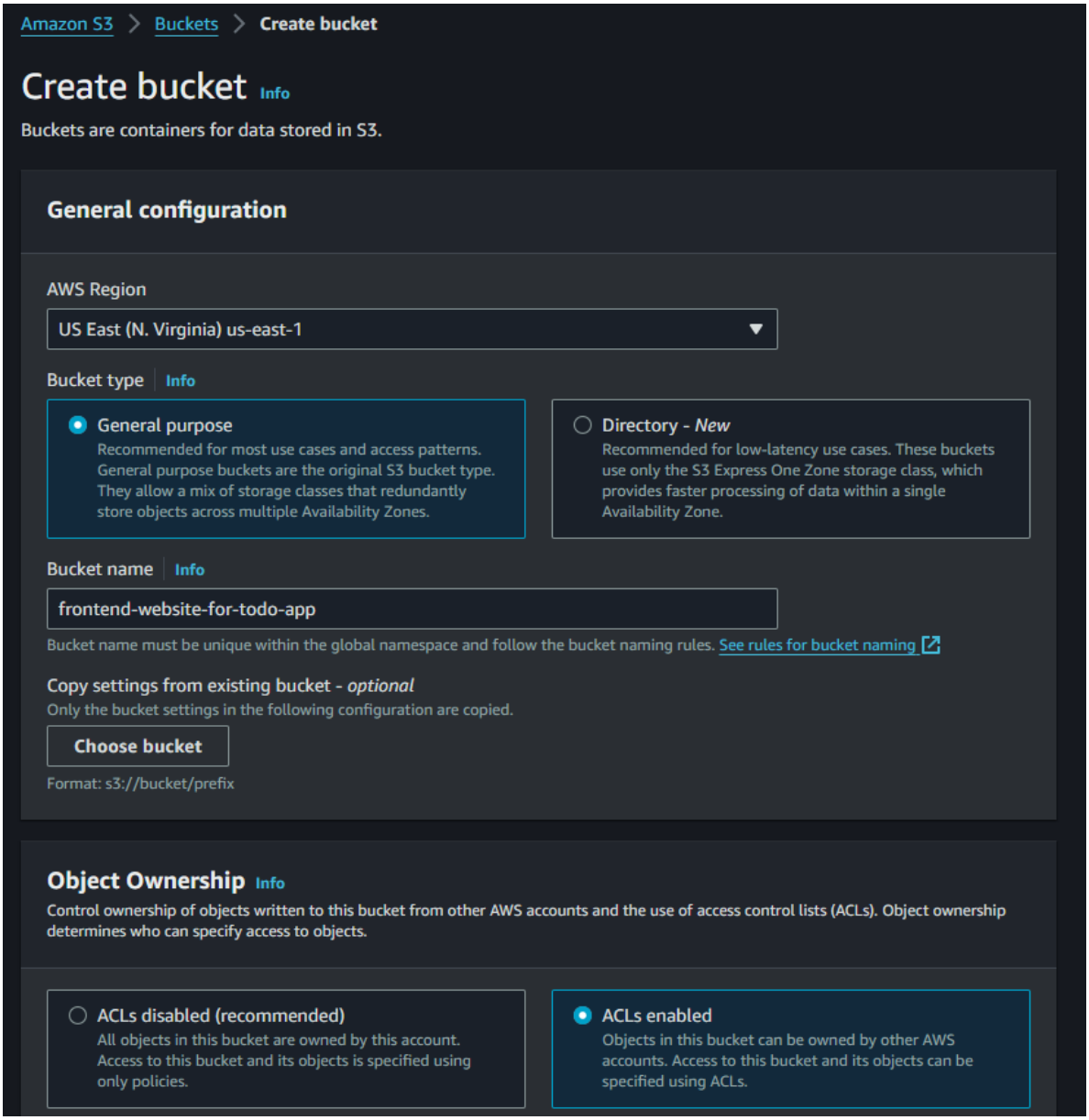


Get Method

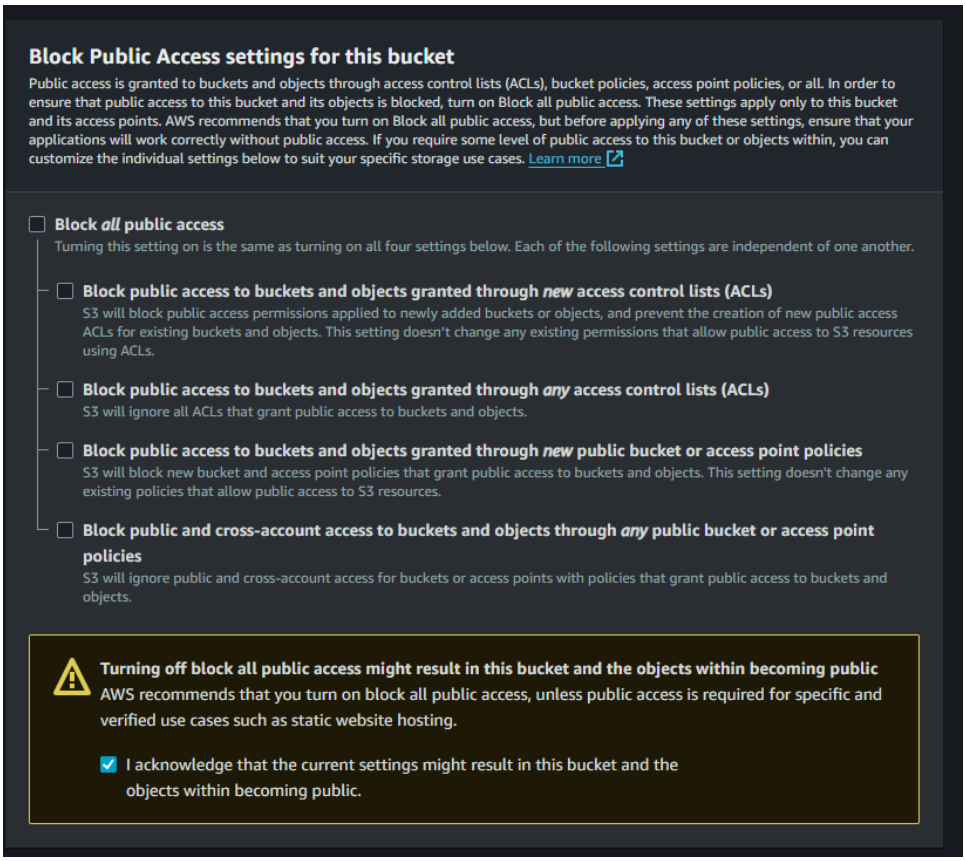


Step 19: Testing all the apis in the postman

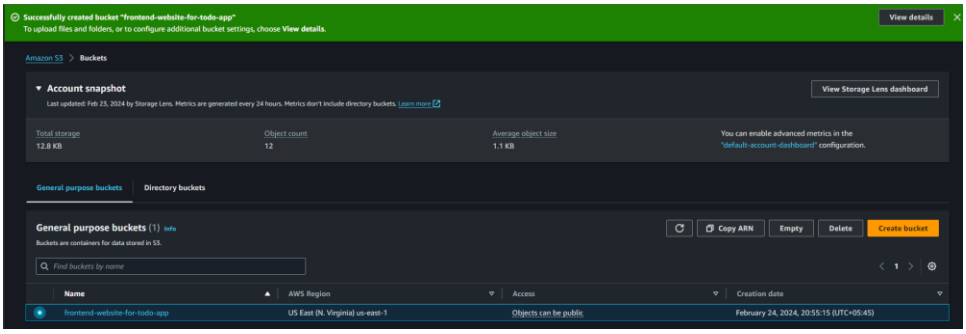
Building a Serverless Web Application



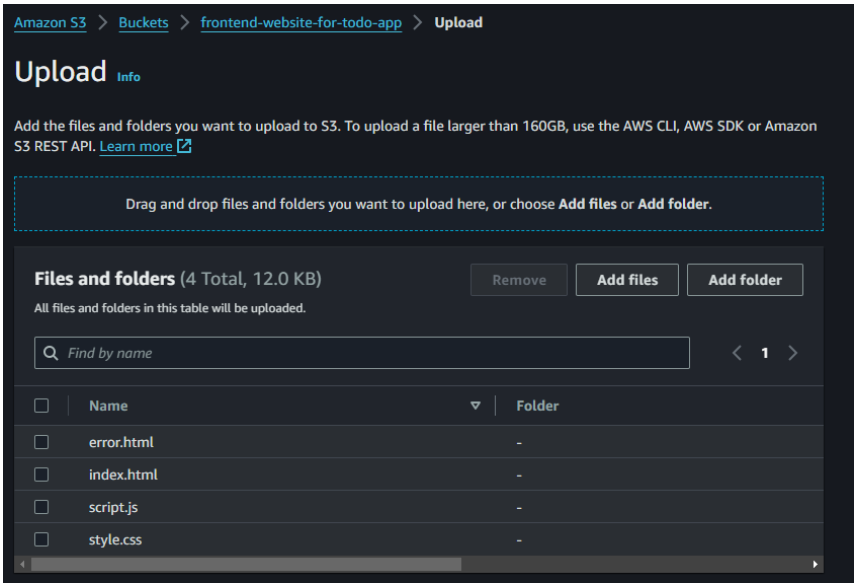
Step 1: add the bucket name and enable the ACLs



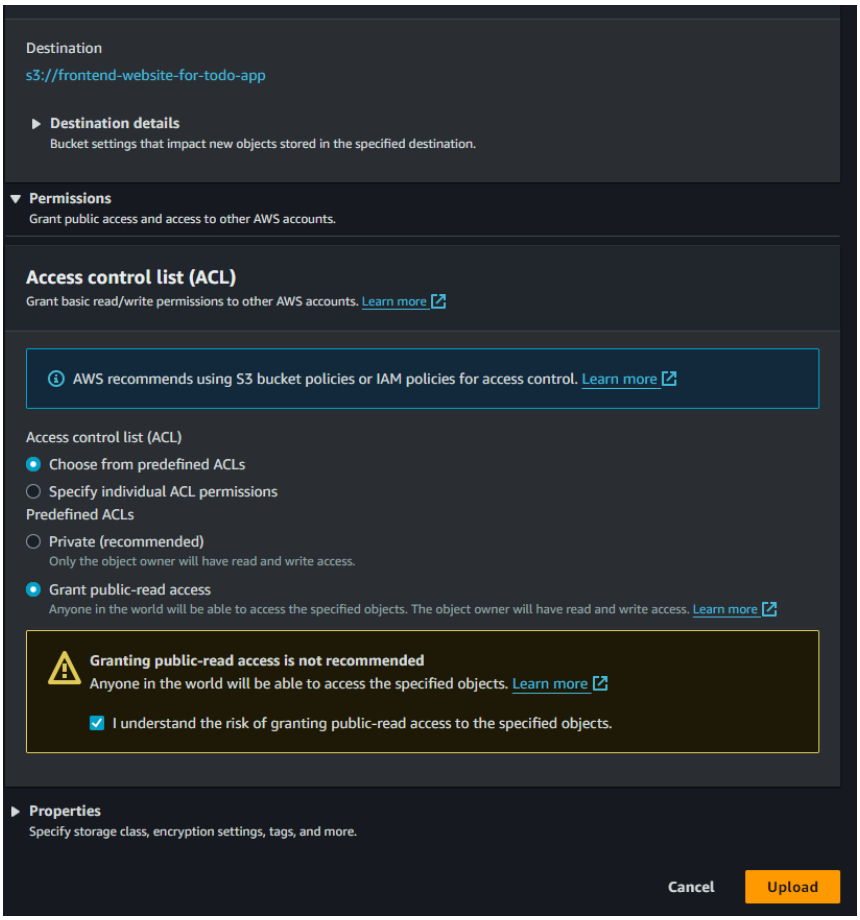
Step 2: Enable the public access and click on create bucket



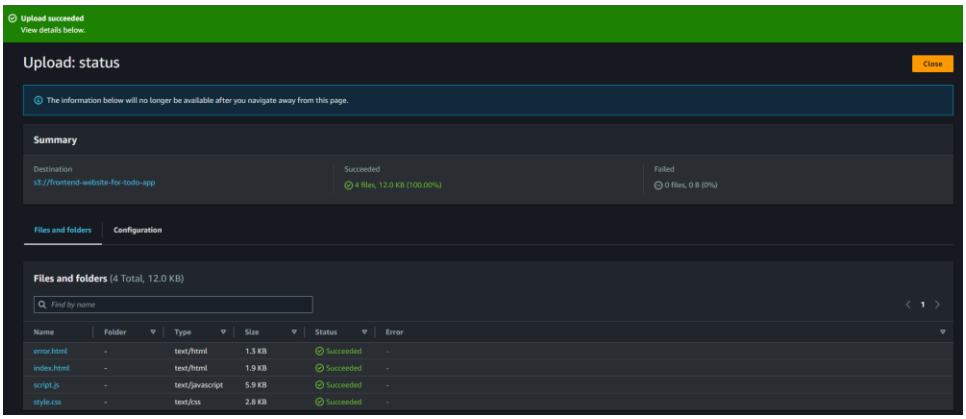
Step 3: Bucket created successfully



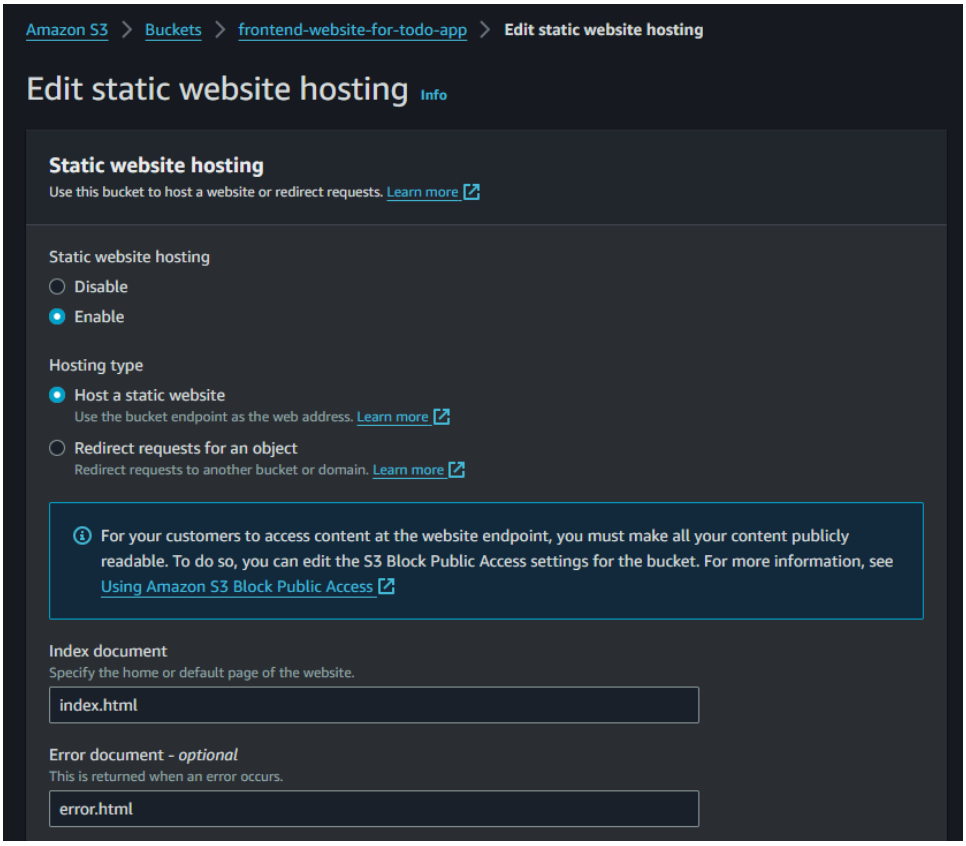
Step 4: Adding the frontend files



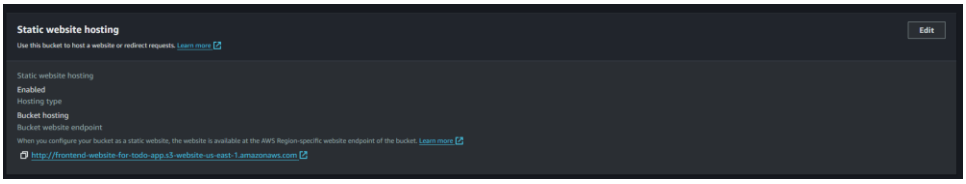
Step 5: Granting the public access and clicking on the upload button to upload the files



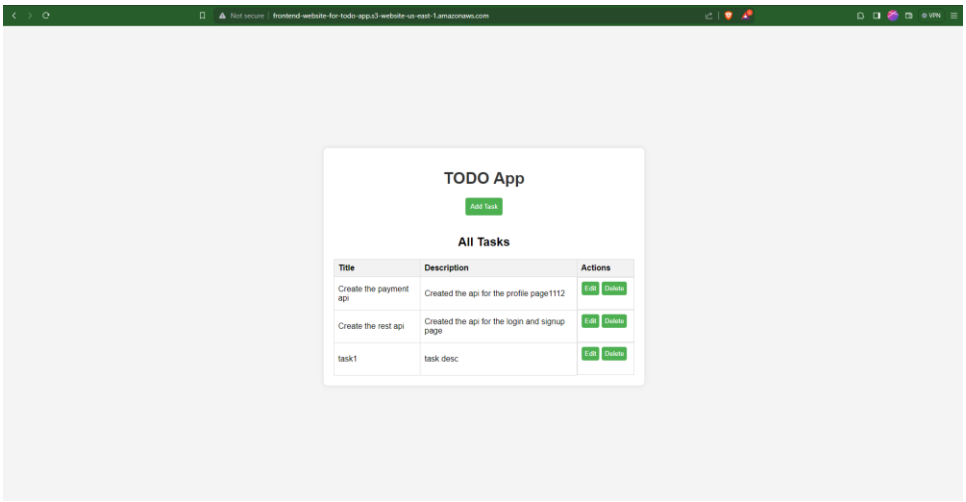
Successfully uploaded

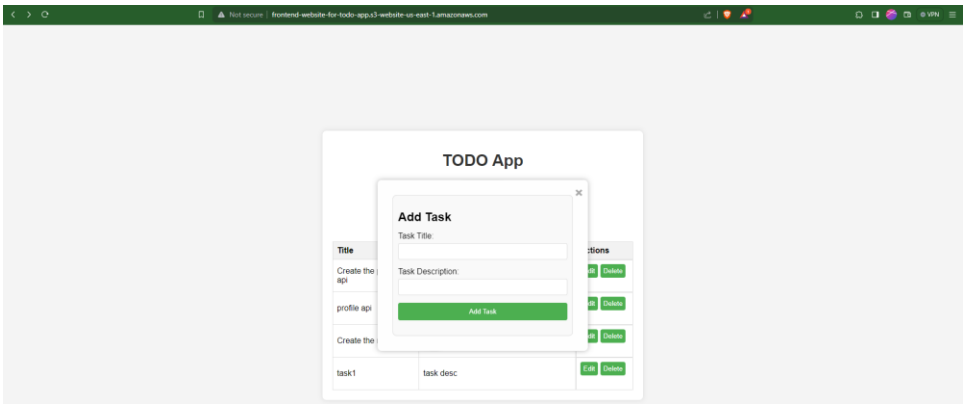


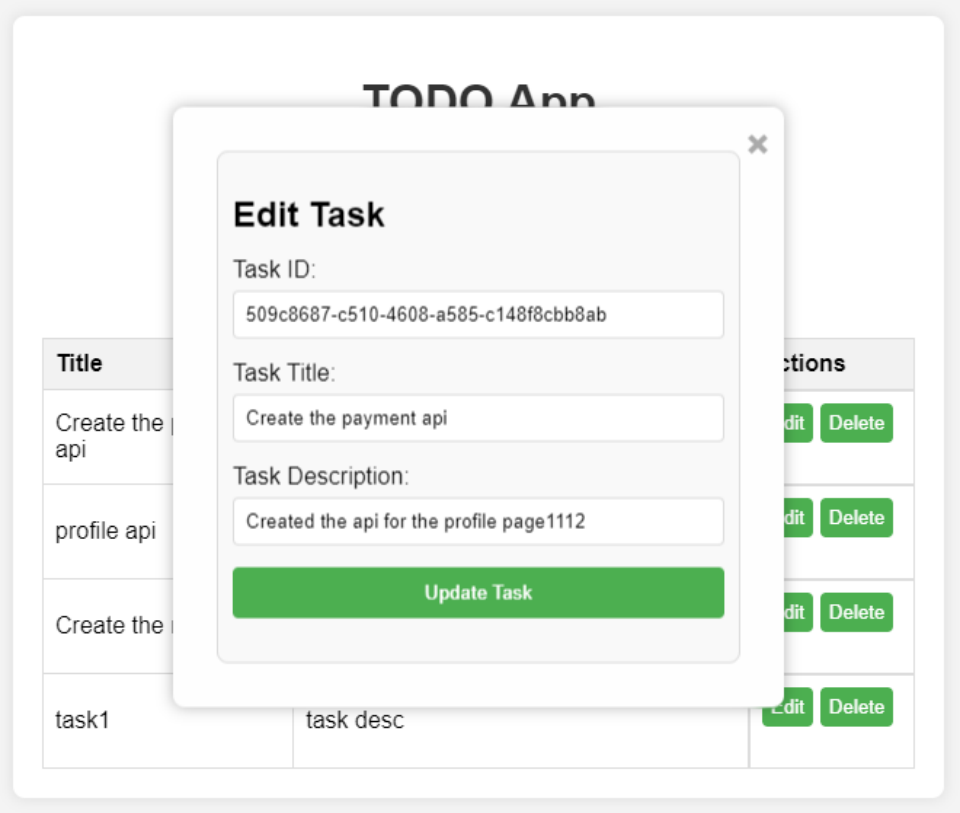
Step 6: Make the static site by enabling the hosting option



Site available for public access

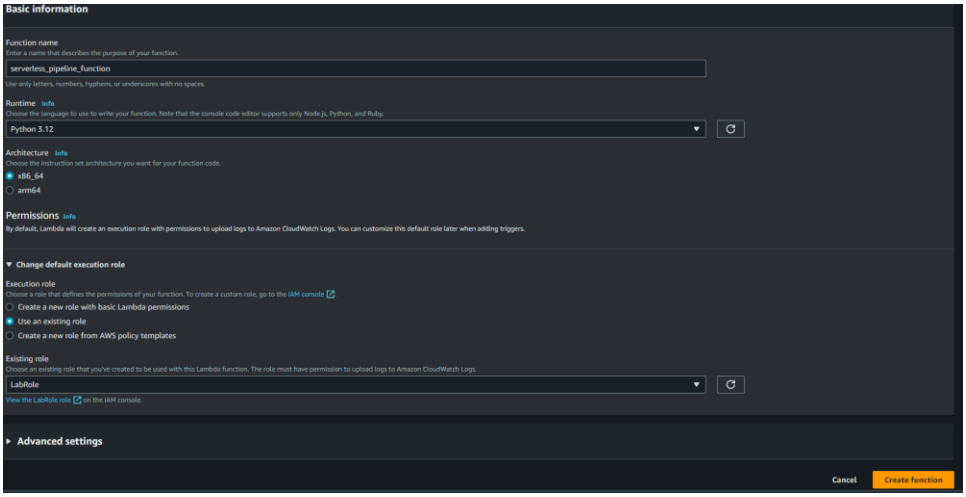

Not secure | frontend-website-for-todo-app.s3-website-us-east-1.amazonaws.com
TODO App
Add Task
All Tasks
Title
Description
Actions
Create the payment api
Created the api for the profile page1112
Edit
Delete
Create the rest api
Created the api for the login and signup page
Edit
Delete
task1
task desc
Edit
Delete


Not secure | frontend-website-for-todo-app.s3-website-us-east-1.amazonaws.com
TODO App
Add Task
Task Title:
Task Description:
Add Task
Title
Create the
api
profile api
Create the
task1
task desc
Edit
Delete

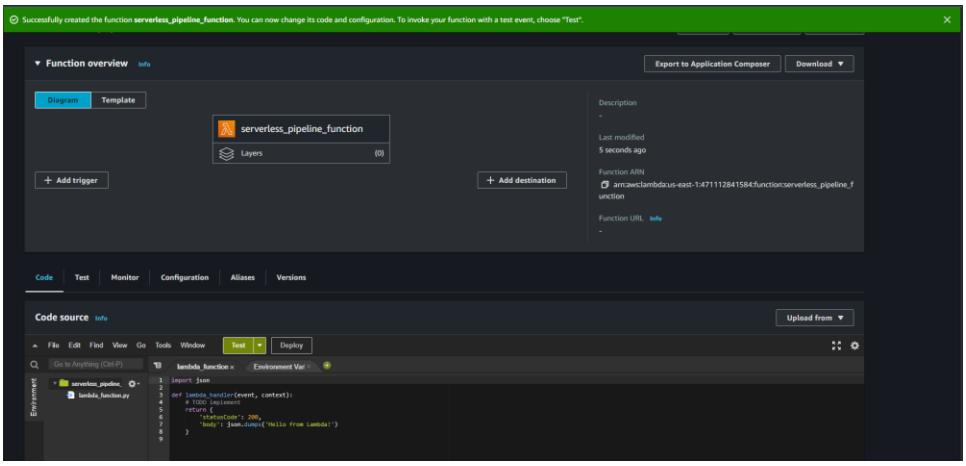


Above all ui are static hosted website images

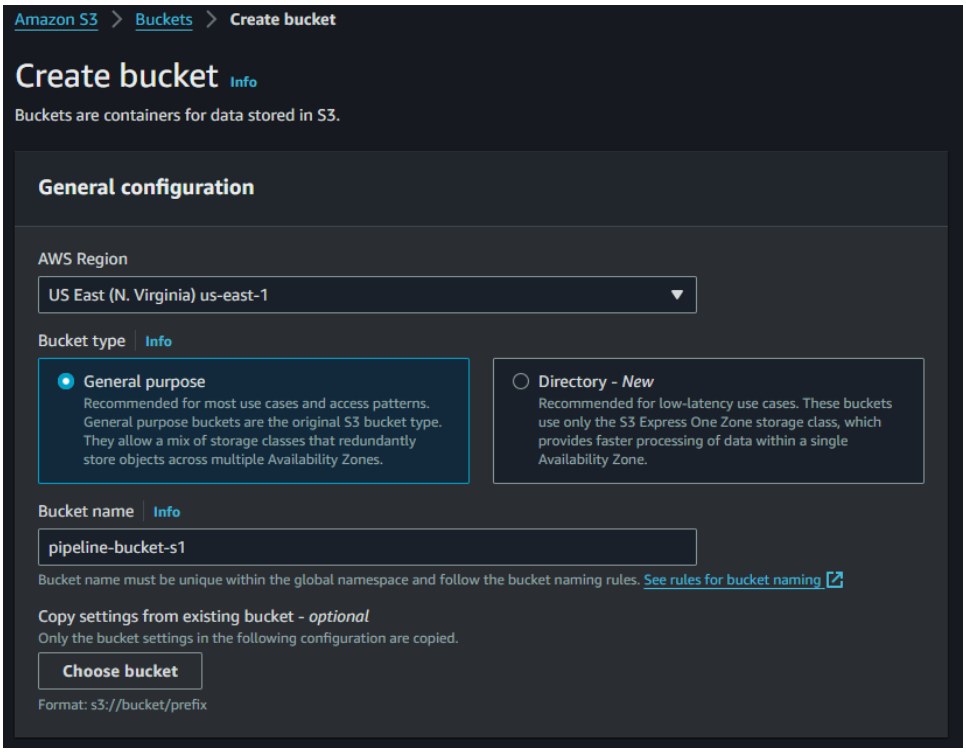
Serverless Data Processing Pipeline



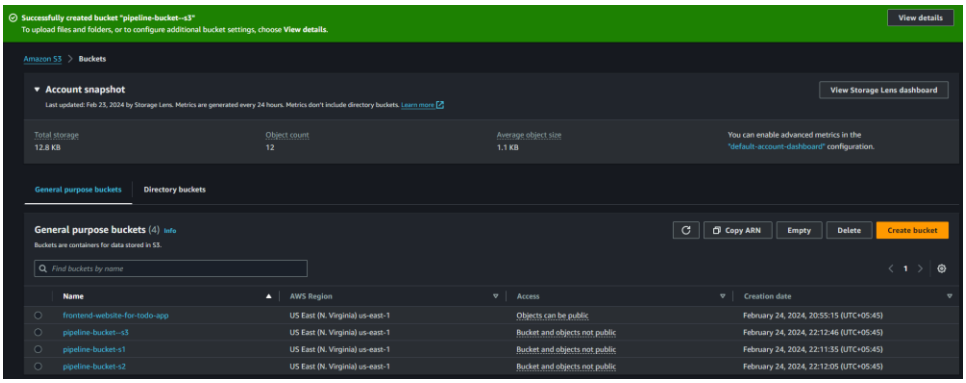
Step 1: Create the lambda function



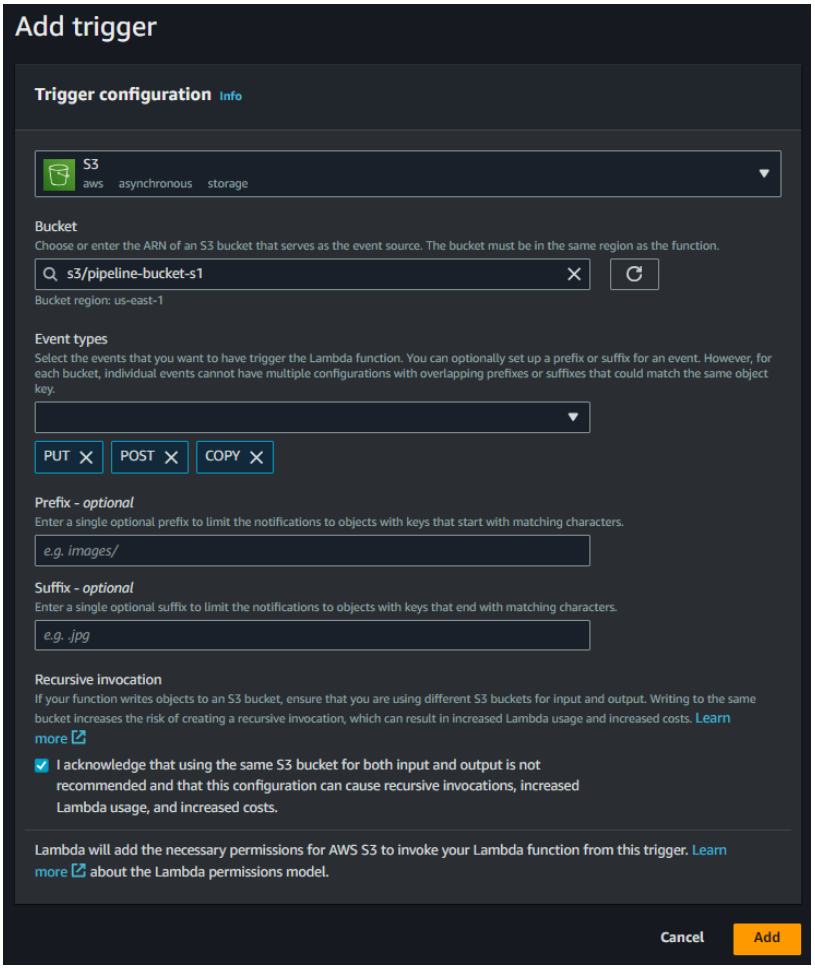
Lambda function created



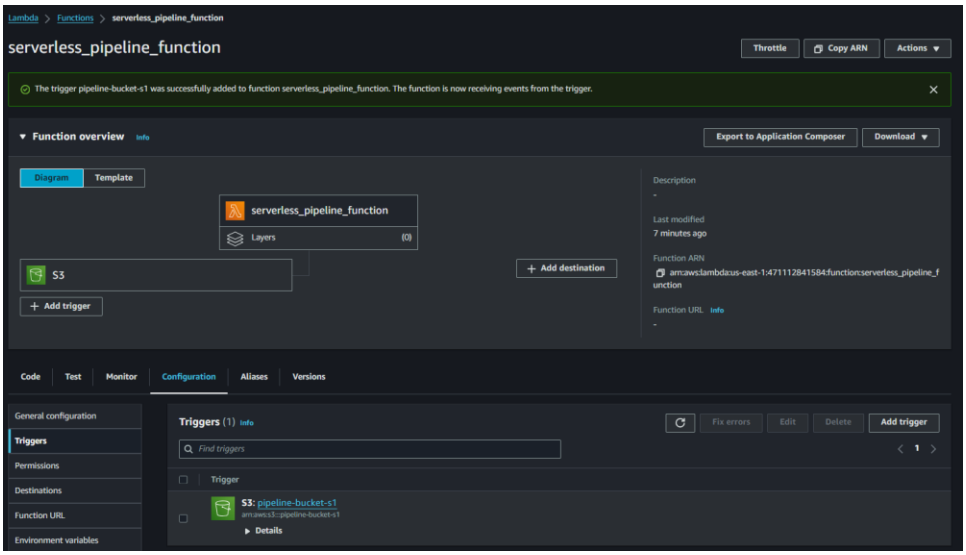
Step 2: Create the first s3 bucket



Step 3: Added two more buckets

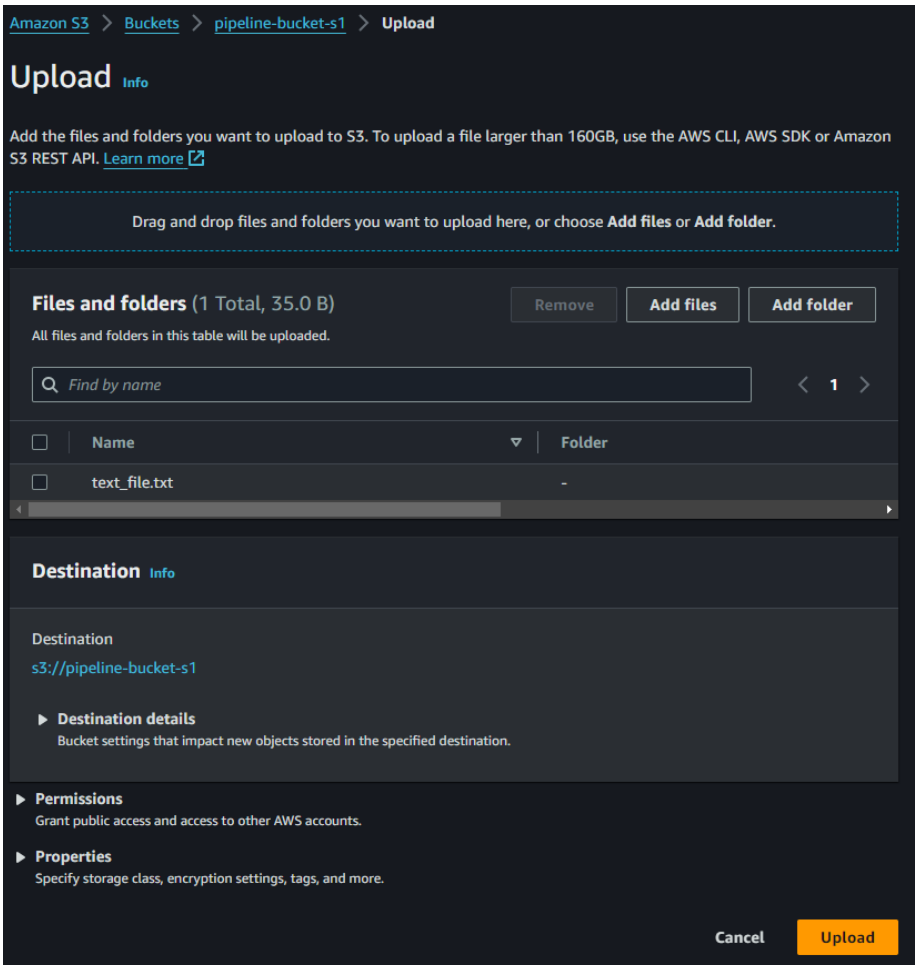


Step 4: Add one bucket as trigger for the lambda function

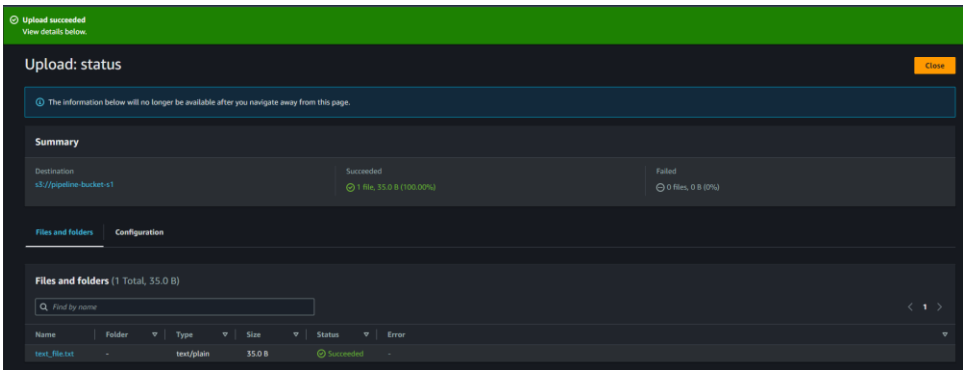


Trigger added successfully

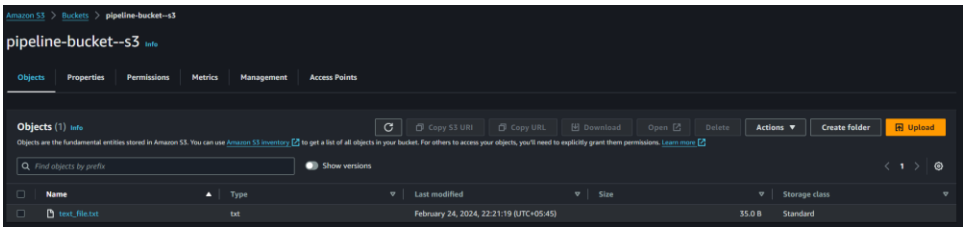
Step 5: Added lambda function code and deployed



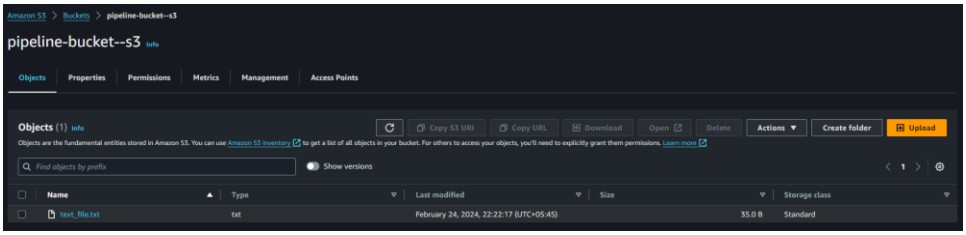
Step 6: Added the text file to first s3 bucket that triggers the lambda function



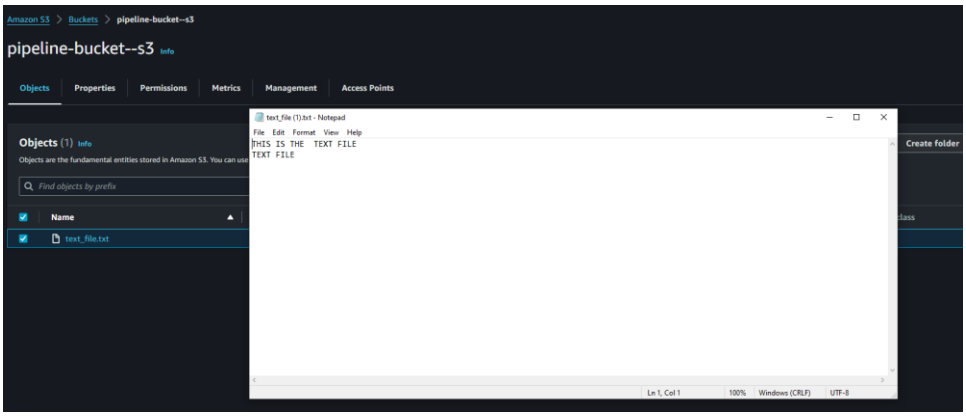
File uploaded successfully



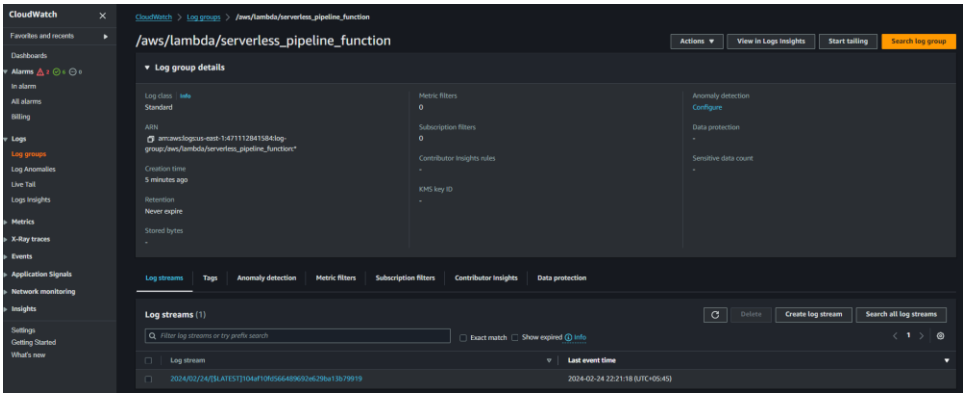
Step 7: Check same is replicated in second bucket



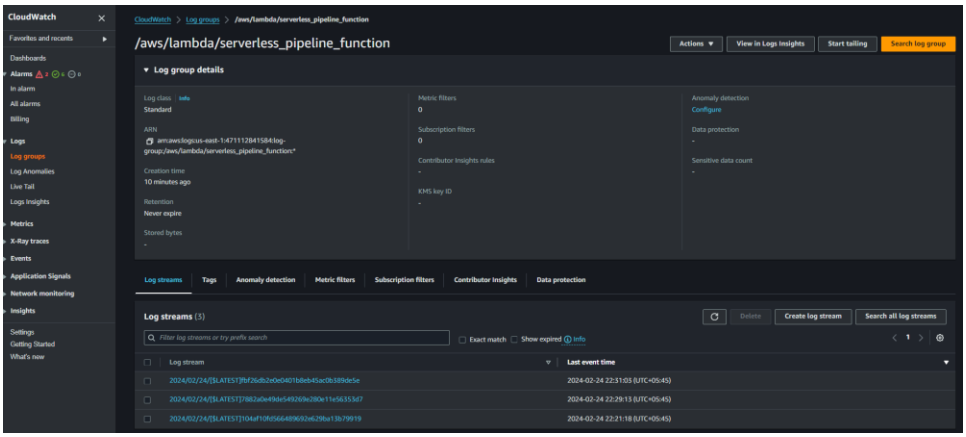
Step 8: Verify same file from the bucket one is replicated in bucket 3 or not



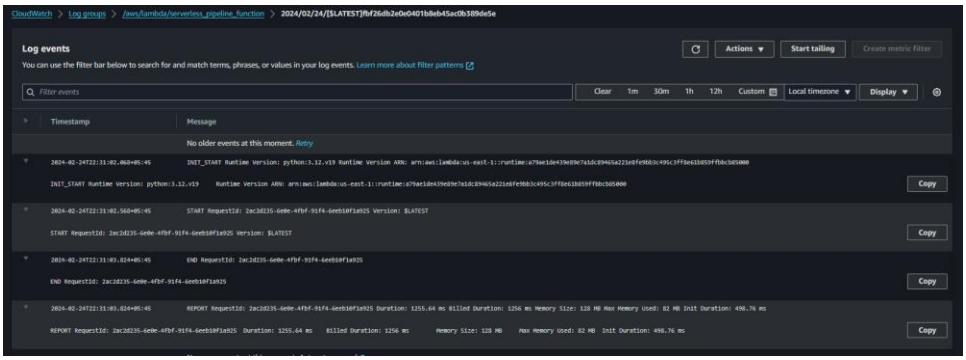
Step 9: Same file is converted into upper case after replication



Step 10: Go to the cloud watch and check the logs of the lambda function



Step 11: Check on the latest logs to view all the log history



Latest log details