

## Documentation for Github Ci/CD terraform pipeline

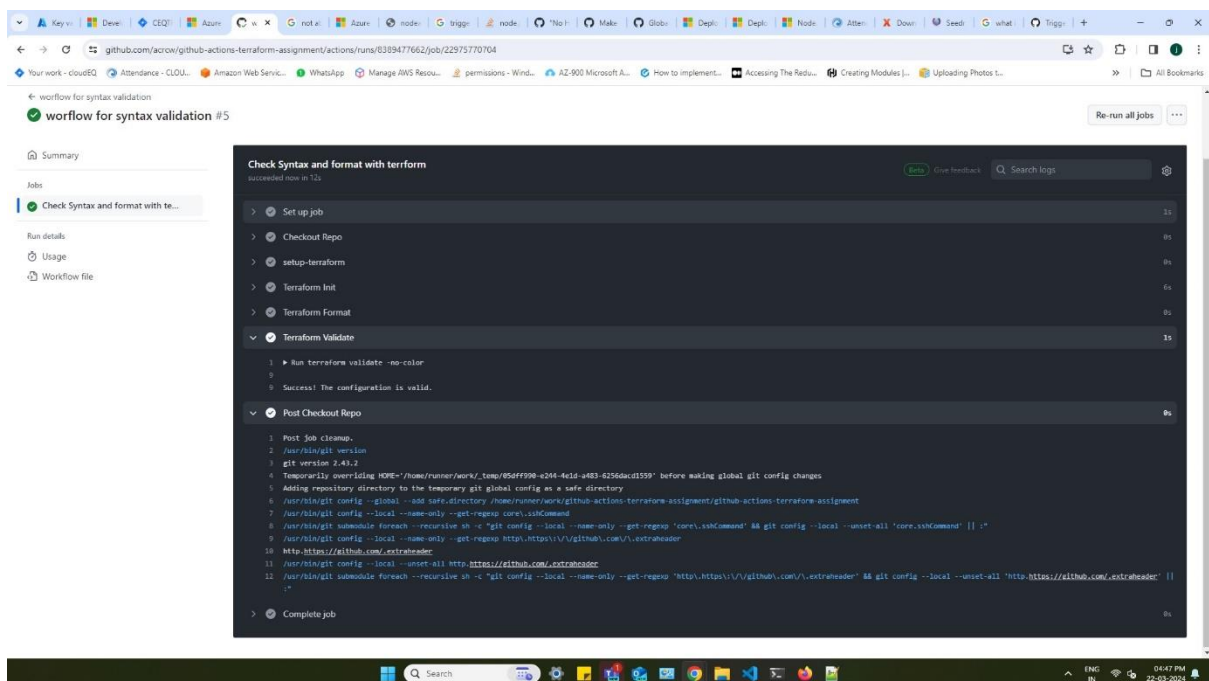
This template create a aws lambda function and a s3 bucket that acts as trigger for the lambda and a dynamo db table that is used by lambda to log entries of the contents of s3 bucket.

There are 3 separate workflows created to run this pipeline.

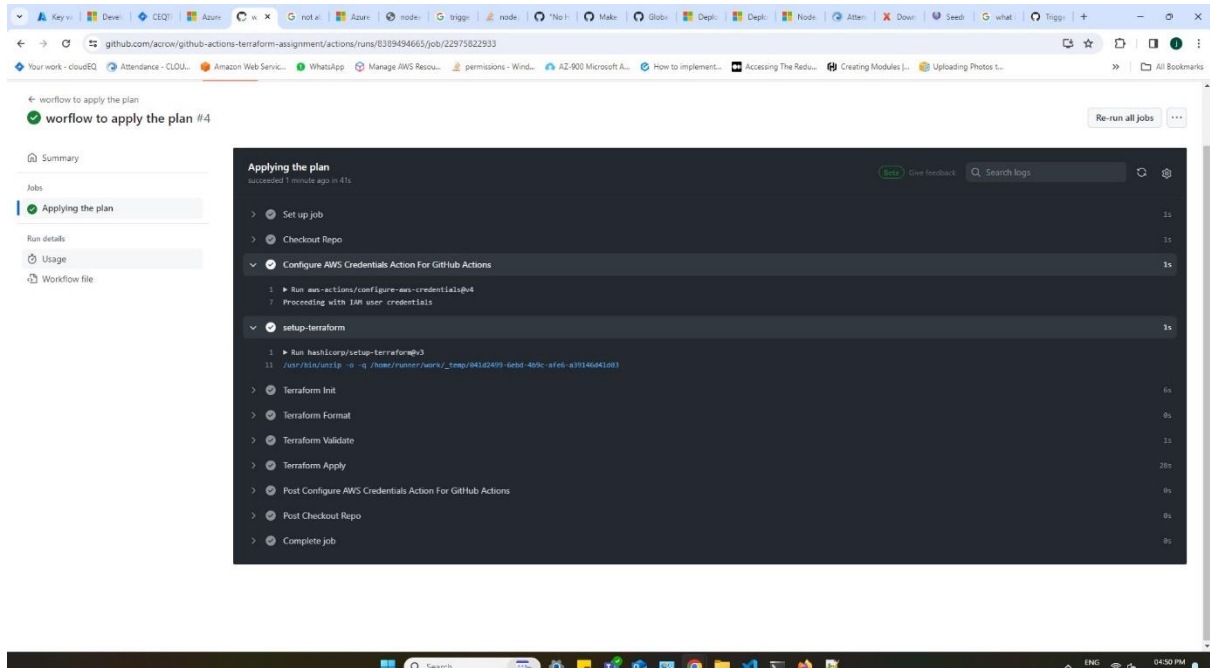
1. First workflow is used to run syntax validation on terraform code.
2. Second workflow is used to apply the template and create the resources.
3. Third workflow is used to destroy the resources created by template.

Demo:

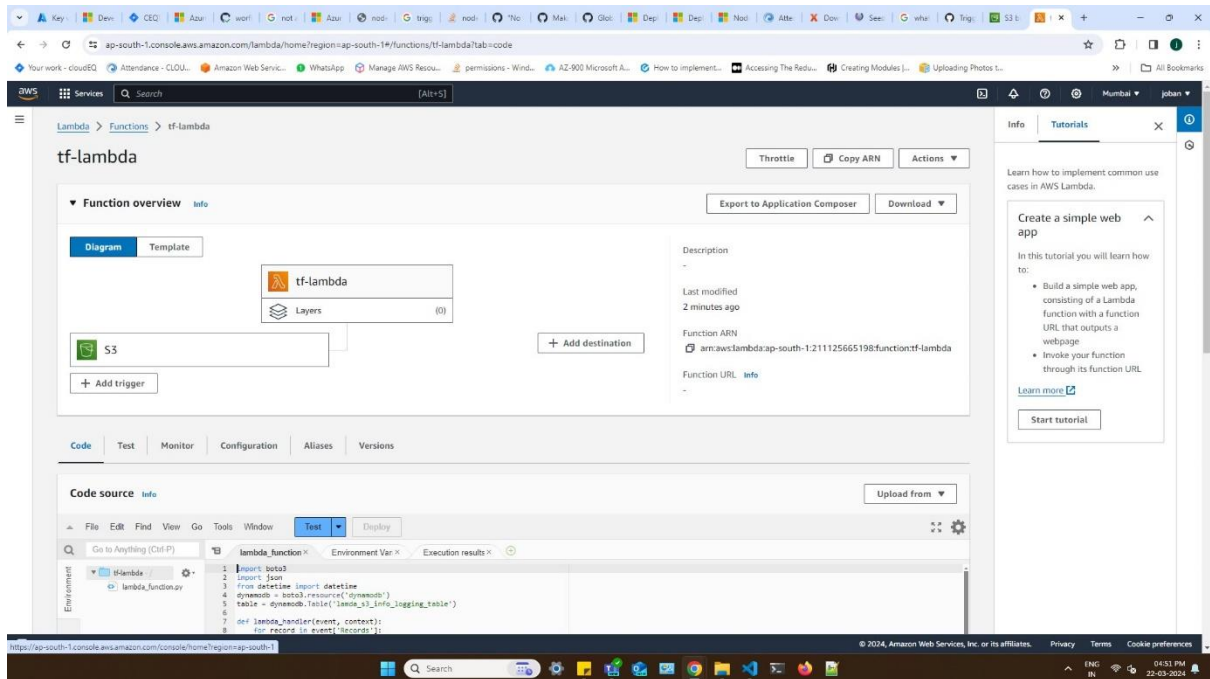
- Run the syntax validation workflow to verify the terraform code



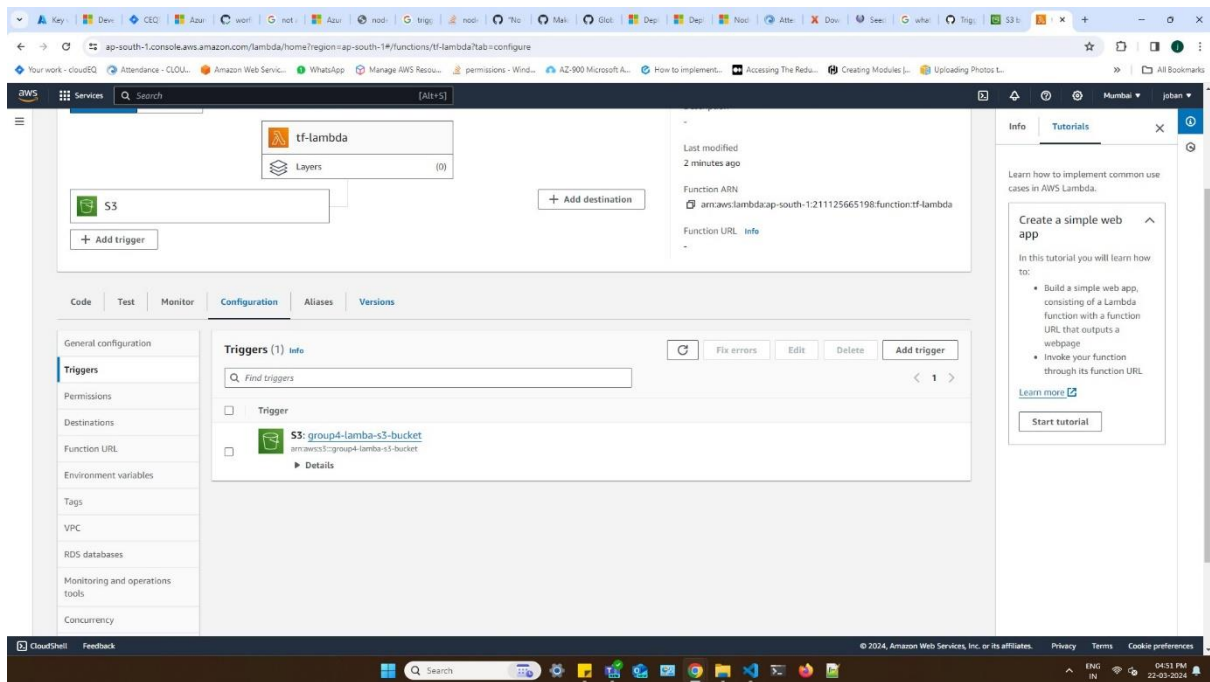
- Run the Apply plan workflow to created the resources



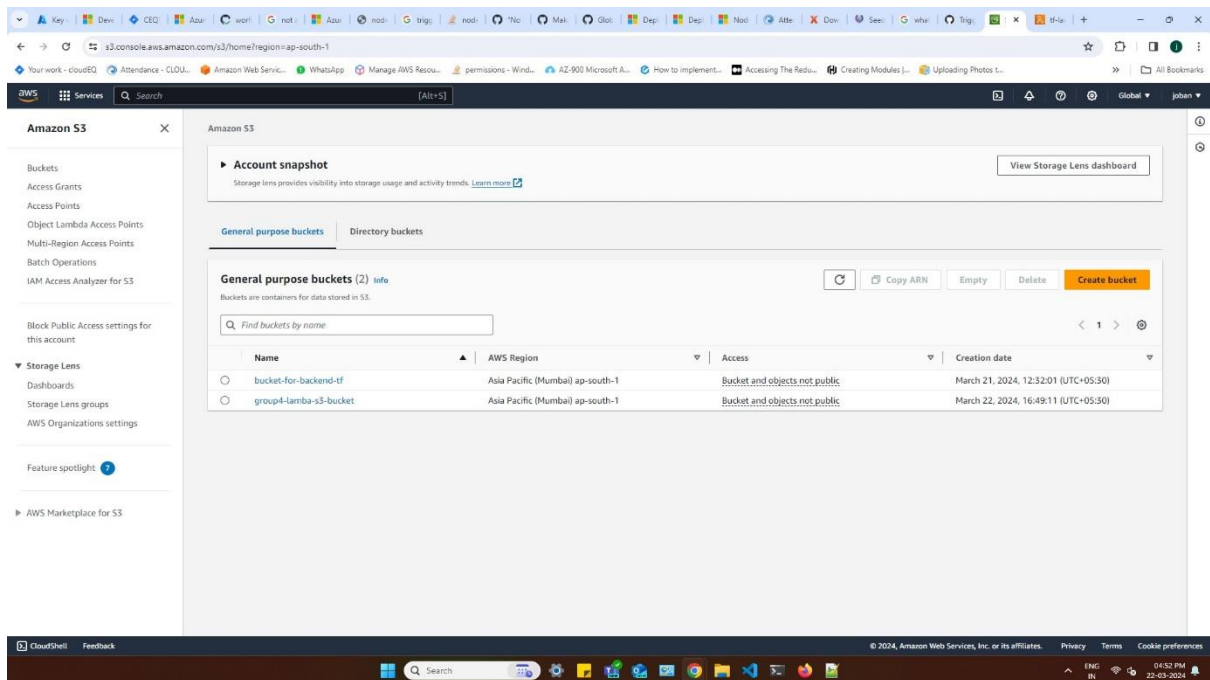
- Verify that the resources have been created



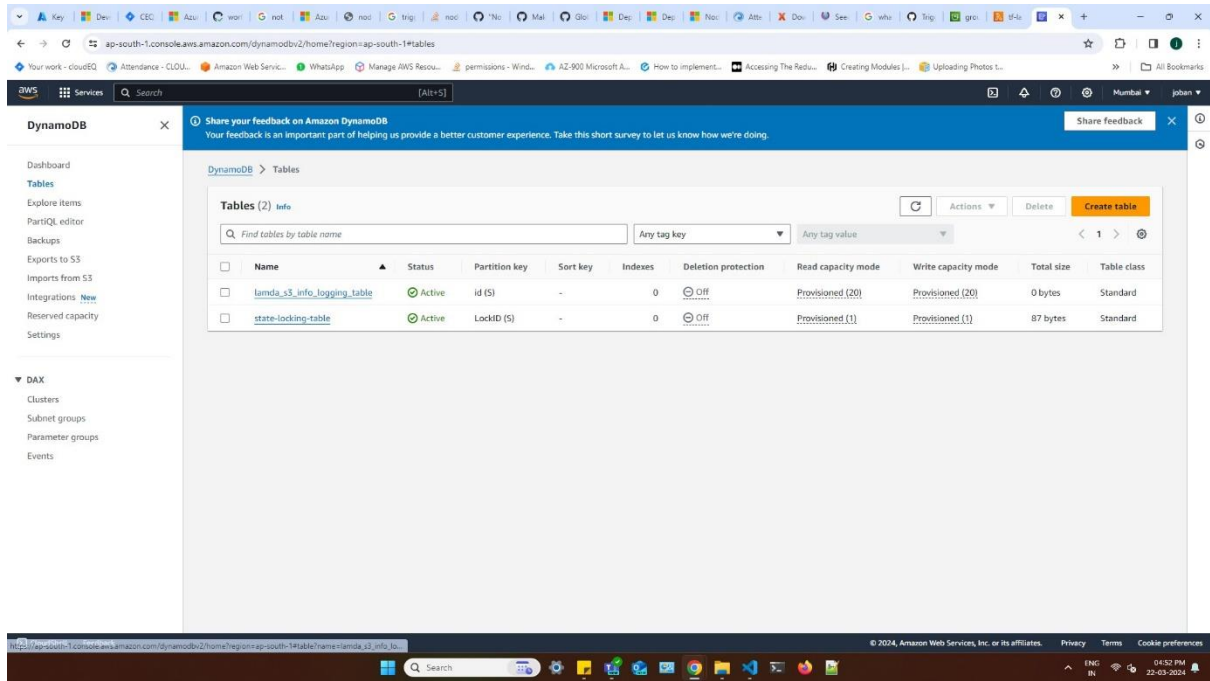
Lambda resource



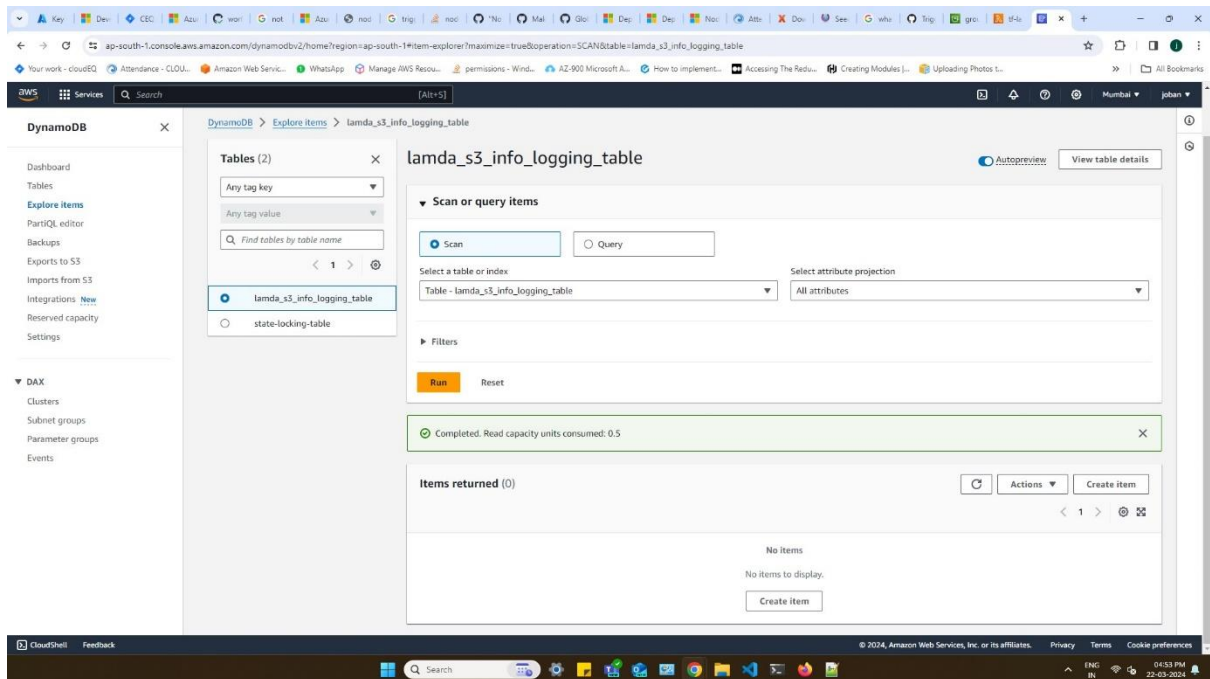
Lambda trigger



S3 bucket



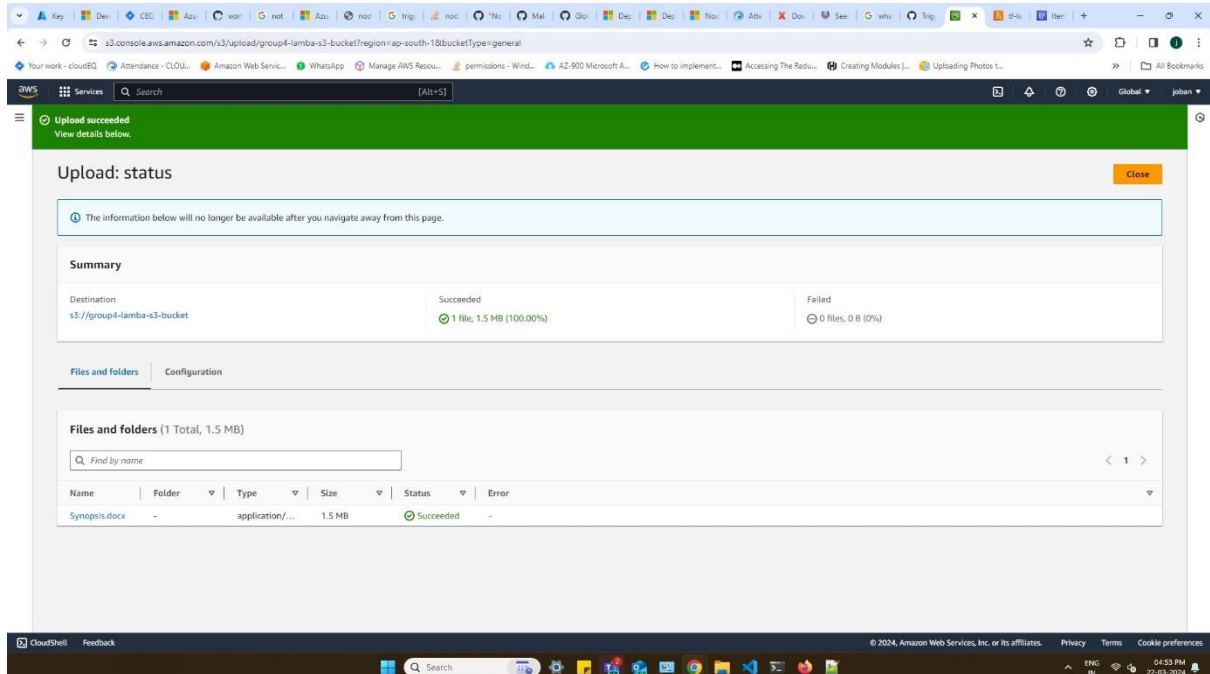
Dynamo db table



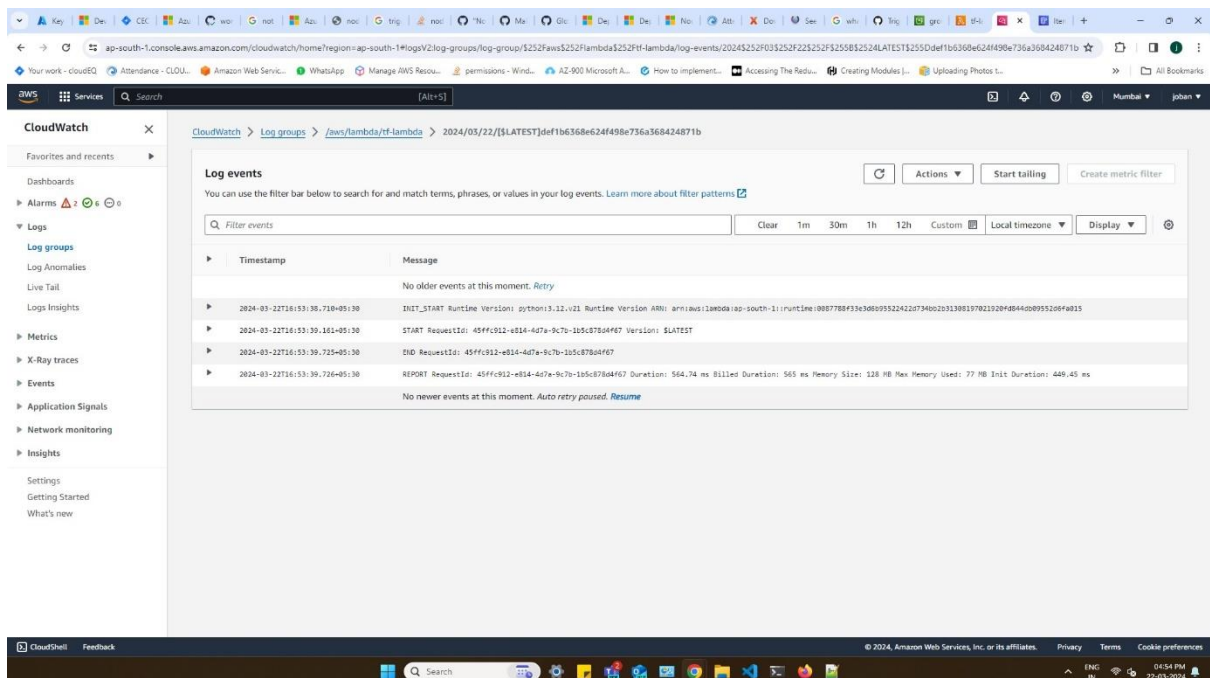
Currently no entries in dynamo db

Lets test that our resources are working as intended:

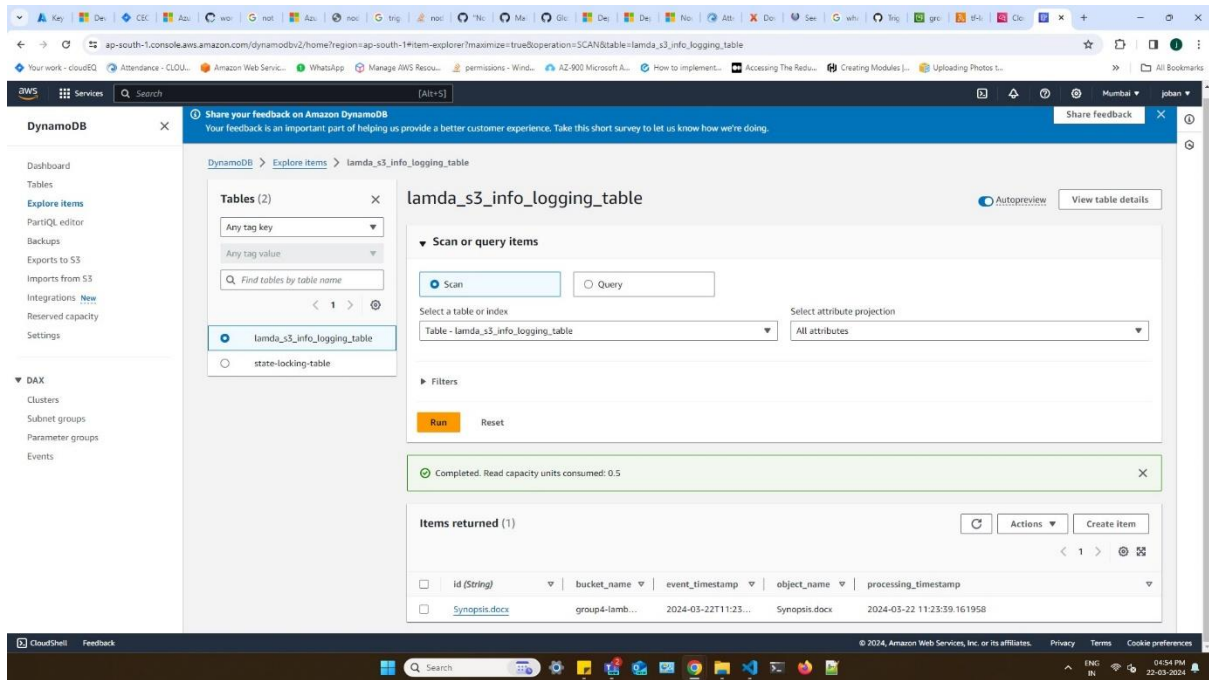
- Lets upload a object to s3 bucket



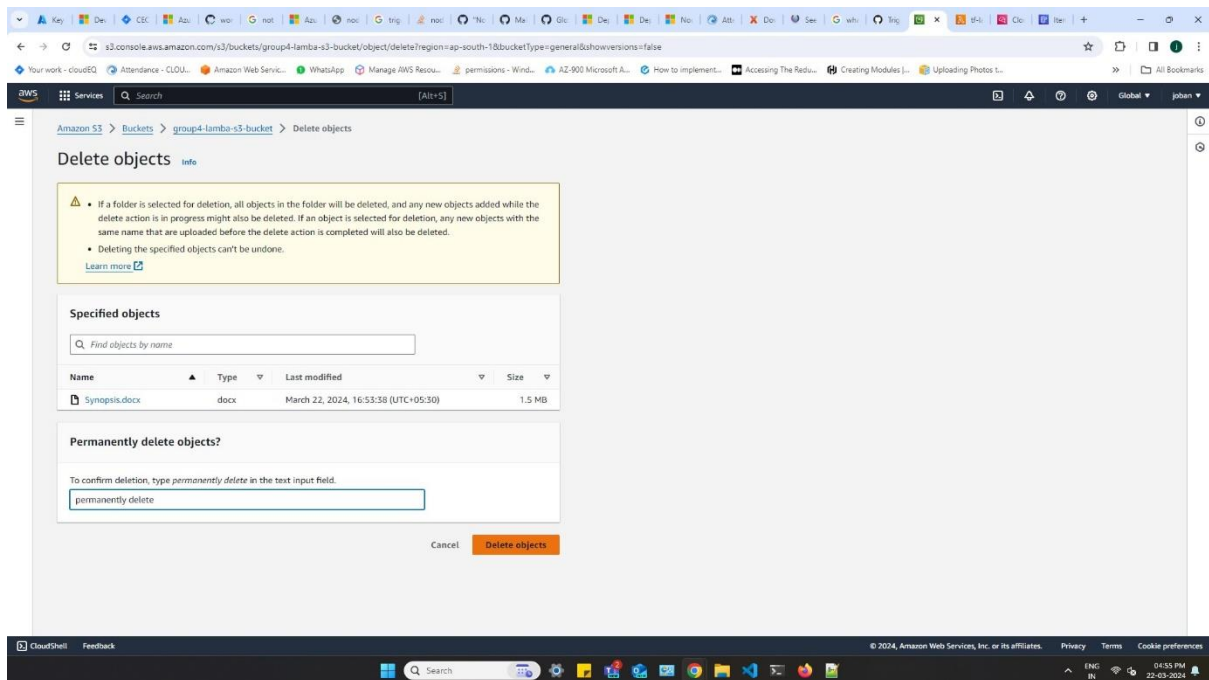
- Check the cloudwatch logs for lambda to check if lambda was fired



- Check the dynamo db table to see whether the item was logged in it or not

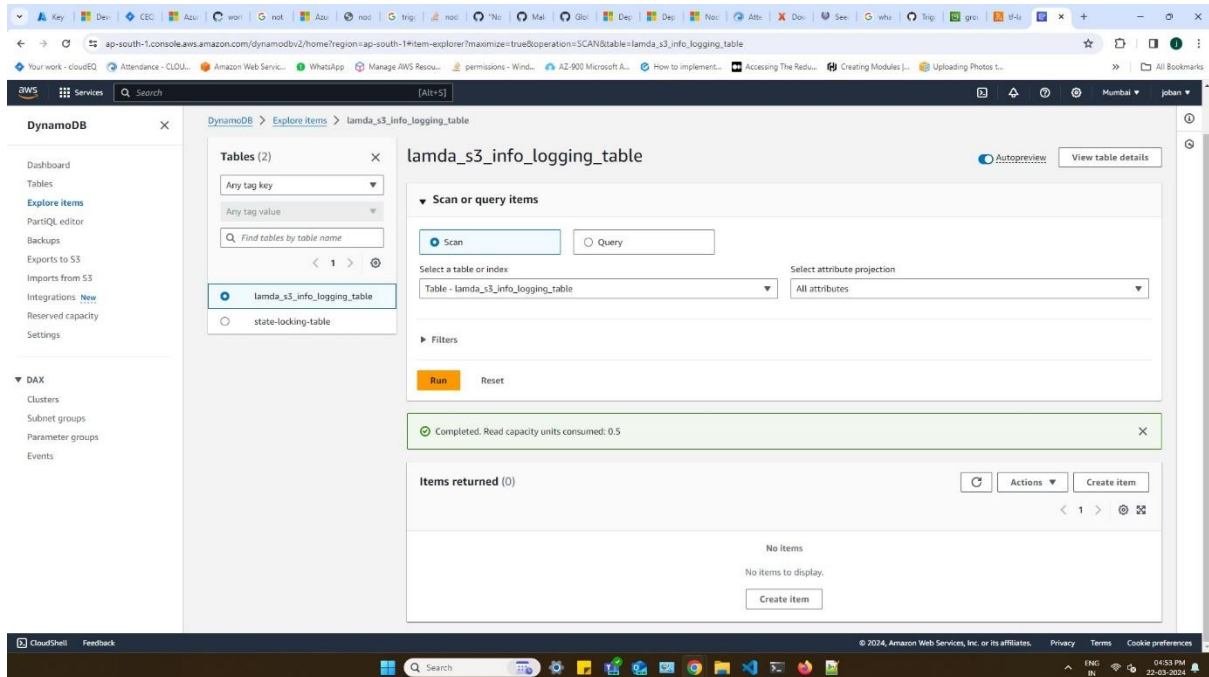


- Lets remove the item from the bucket to test the lambda functionality





- Lets remove the item from the bucket to test the lambda functionality



Since all the resources are working as intended, let run the destroy workflow

