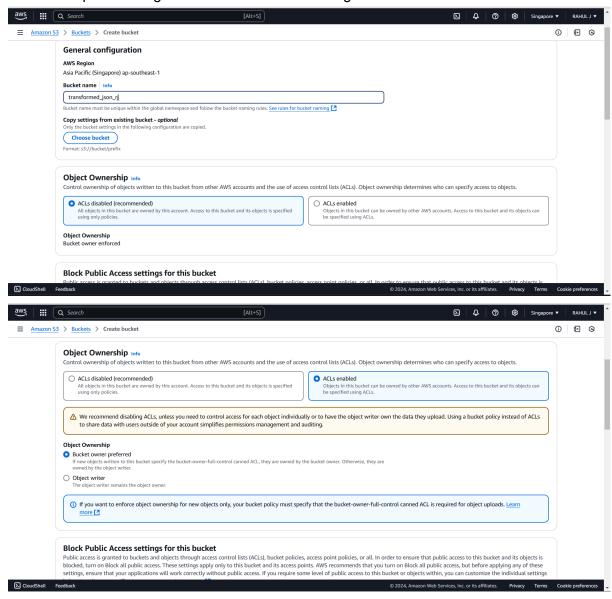
AWS Project-1 (Building the Data Pipeline on AWS)

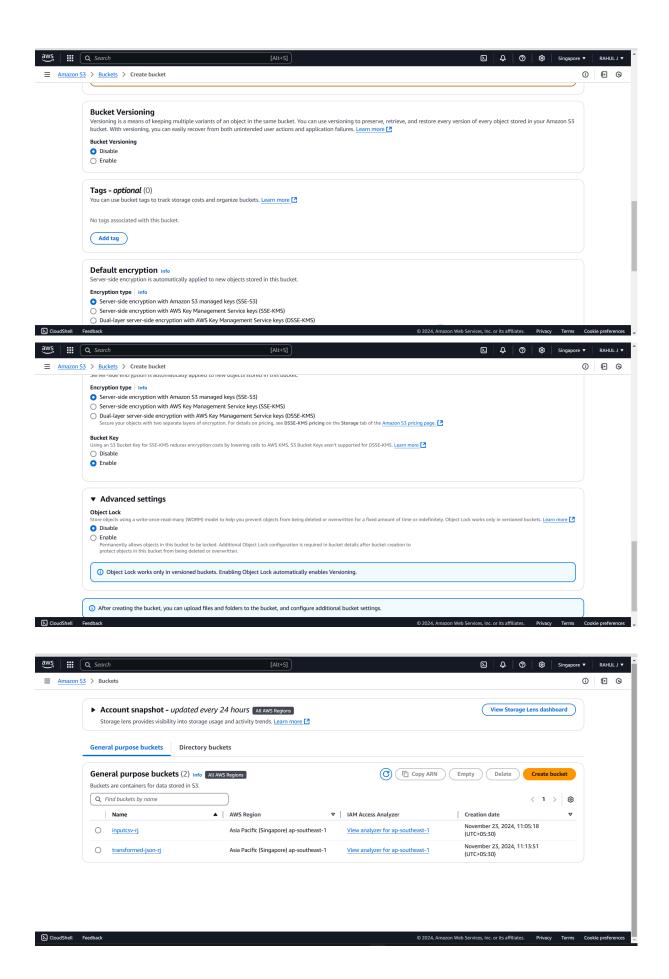
Summary

I have created a data pipeline. When any CSV file is stored in S3, through the pipeline, convert it and store it in another S3 bucket in the form of JSON. For this, I have used the AWS glue job to transfer it. To do this job automatically, I have used AWS Lambda with the trigger. So any file comes into the S3 bucket the glue job gets triggered to convert that file into JSON and store it.

Creating S3 bucket

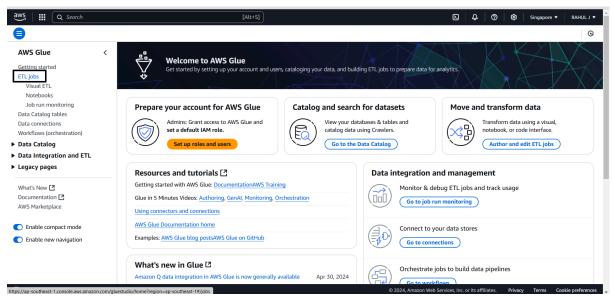
Give the required configurations as below in the image



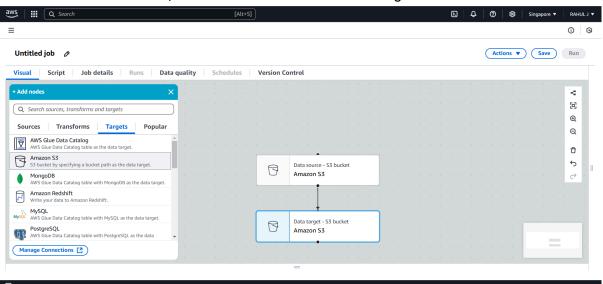


Creating AWS Glue Data Pipeline

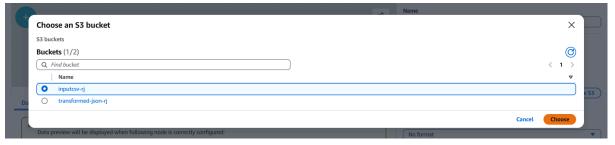
In the search bar search for AWS Glue and on the side search for ETL Jobs



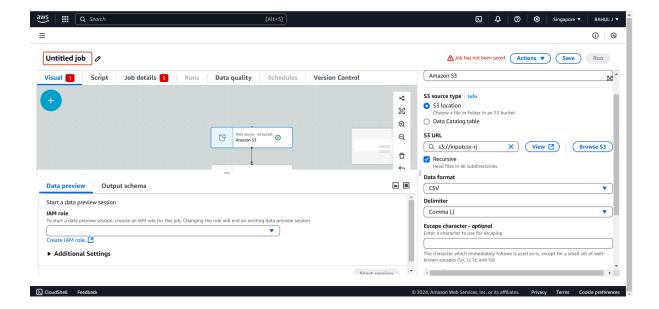
In that click on visual ETL, then select the source and the target as the S3



Then configure those buckets, first choose the bucket for input one

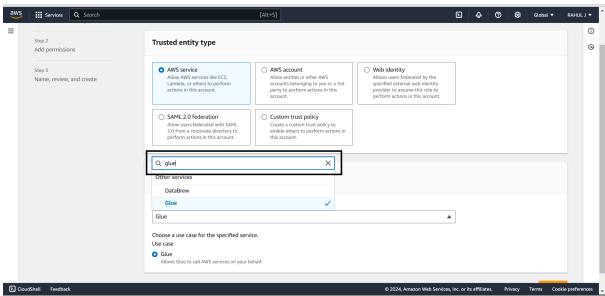


Add the configuration for the bucket and click on save

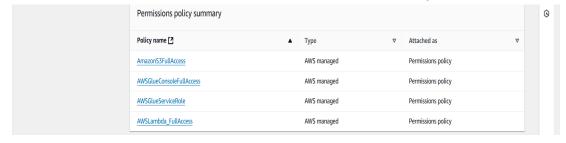


Create an IAM Role

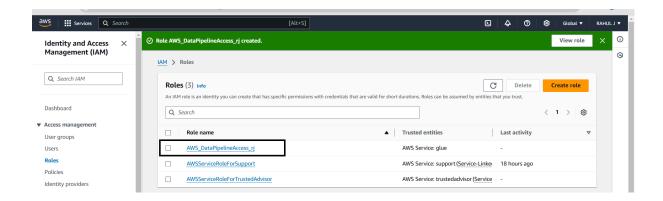
Go to the IAM service, in that go to Create Role and select the USE Case as GLUE



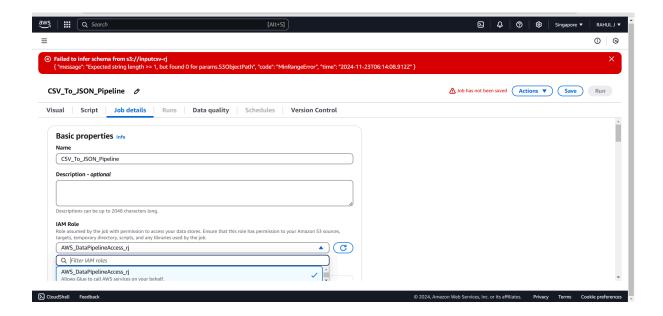
Then click **Next** now choose the policies for the role below in the image

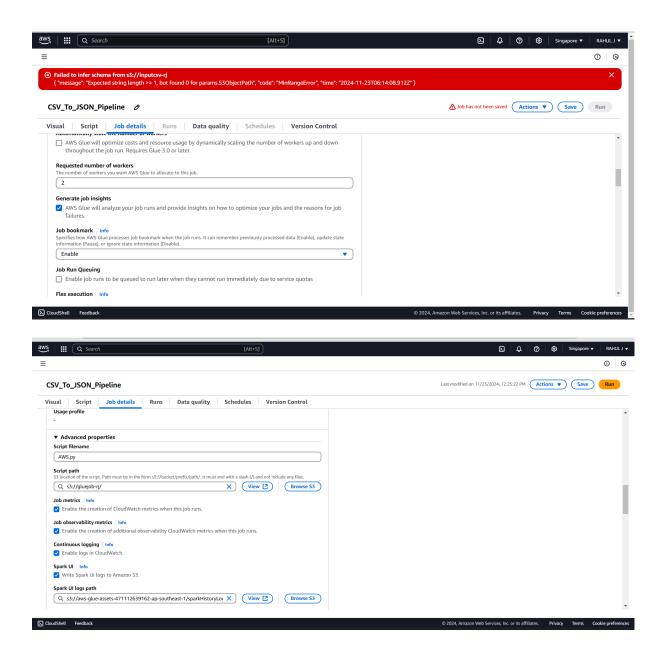


Then Click next to give the proper name for the role and click on **Create the role**.



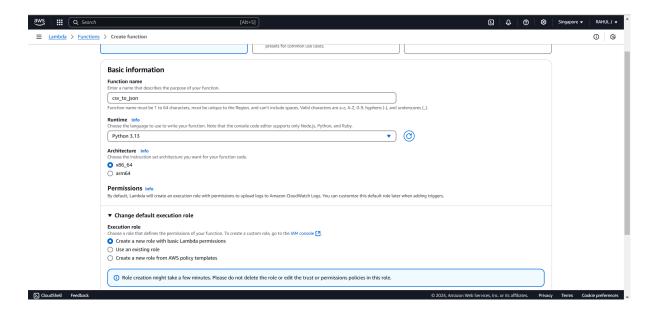
Configuring the Visual ETL



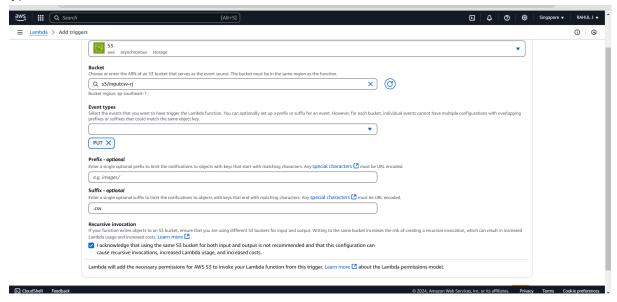


Create a Lambda Function

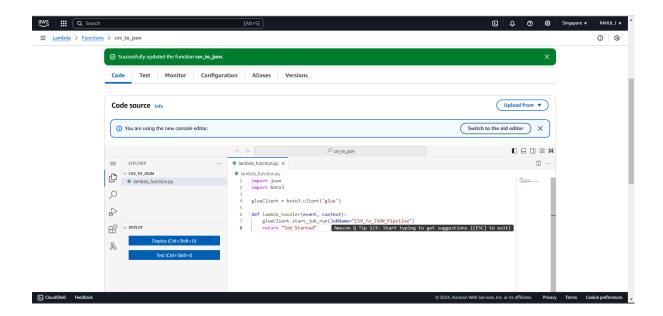
Go to **Lambda service** click on Create **Lambda Function** add the basic configuration to it and click on **Create function**



Now click on **Add Trigger** and add the required configuration here we are going to trigger the lambda function when any file is uploading in the **S3 bucket** so we need to choose Event types as **PUT**.

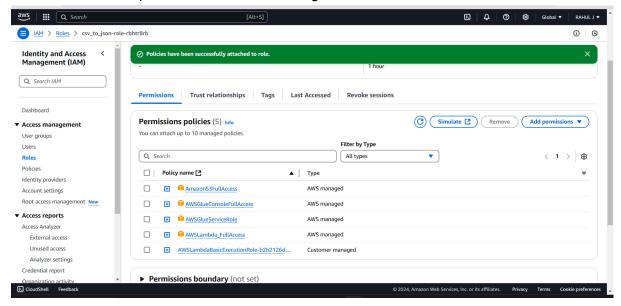


Now, we need to add code to trigger the execution of the ETL Jobs after adding the code we need to **deploy the code**



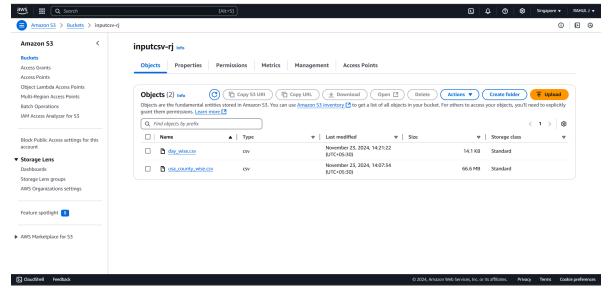
Attach policies to the IAM Role

We must attach the policies to the IAM role to give access.

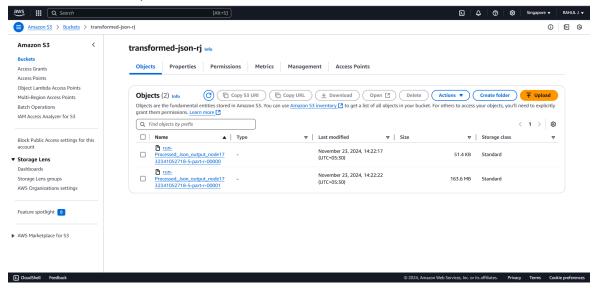


Checking our services

Uploading the CSV files in the input S3 and checking for the output in the target bucket



Now check for the output in the destinated bucket.



To view the file we can download it and see it

