ETL Jobs

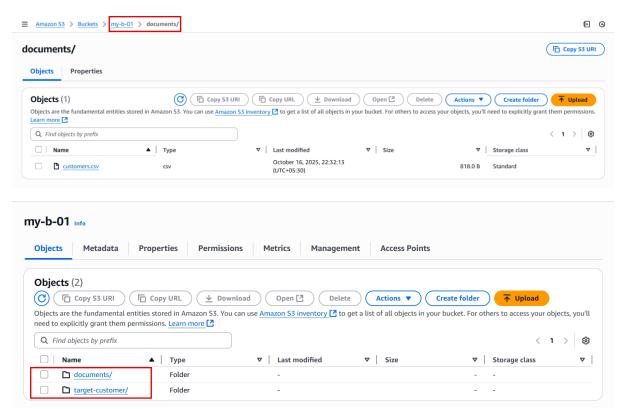
To Begin with the Lab

Summary of the Lab.

In this lab, an ETL job is created in AWS Glue to move data from one S3 folder to another. The source folder "documents" contains CSV files, and the target folder "target-customer" stores the transformed data. Using Visual ETL, an S3 Source and S3 Target are configured, with Parquet as the output format. The Data Catalog is updated to create and maintain table schemas. An IAM role with S3FullAccess is assigned to allow read/write access. After saving and running the job, permissions are verified if needed. Finally, the Parquet file appears in S3, and the table is added to the Data Catalog.

Prerequisite for the Lab:

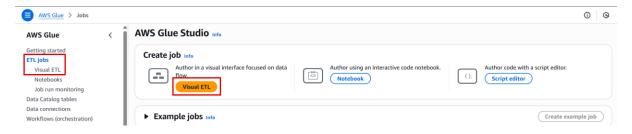
- o Folder created with the name "documents" inside the S3 Buckets with the files inside the folder.
- Create another folder in the same S3 bucket directory with the name targetcustomer.



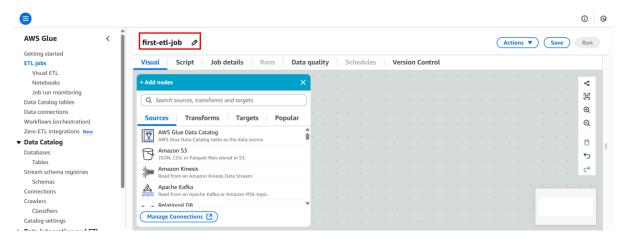
Go to AWS Console → Glue Service (ensure you're in the same region as your S3 bucket).



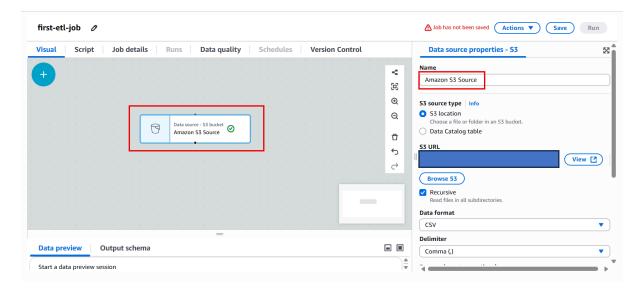
 In the AWS Glue Console, navigate to ETL Jobs and create a new job using Visual ETL.



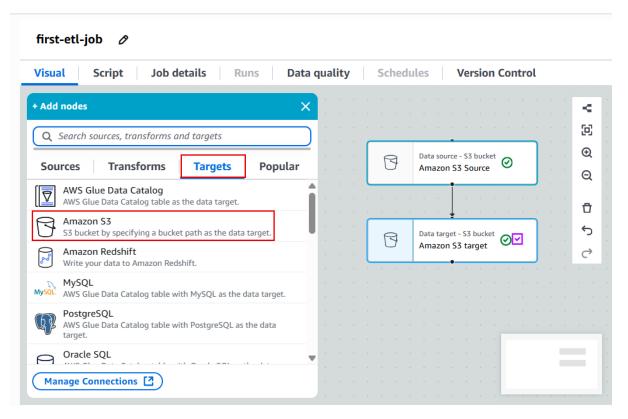
• Name the job



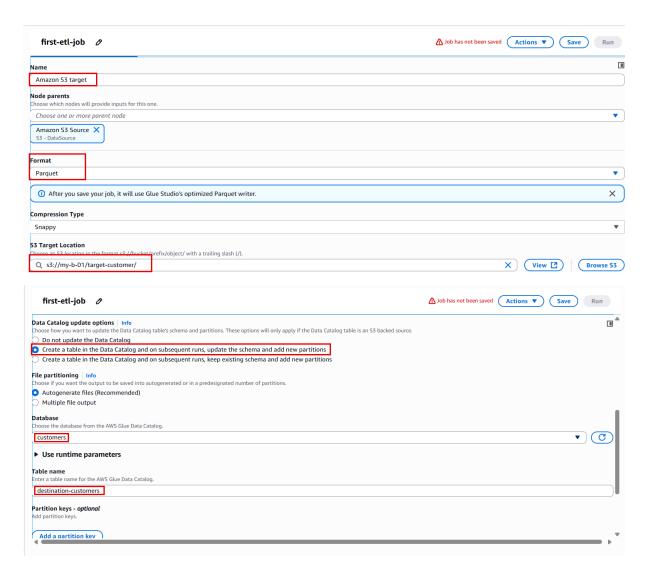
- In the **Visual ETL editor**, add an **S3 Source** node and connect it to the folder containing the CSV file.
- Click on the Add node button and choose Amazon S3.
- We can rename the node and choose the path of the folder from the S3 bucket.
- Click Infer Schema



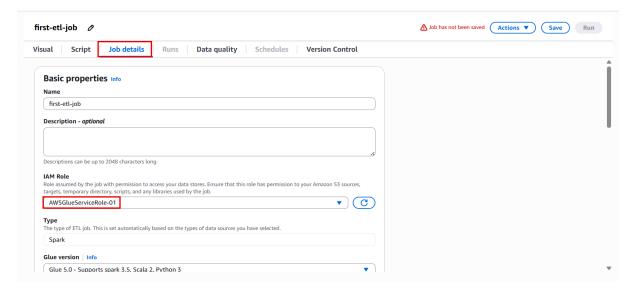
Click on the Targets and again select the Amazon S3 bucket.

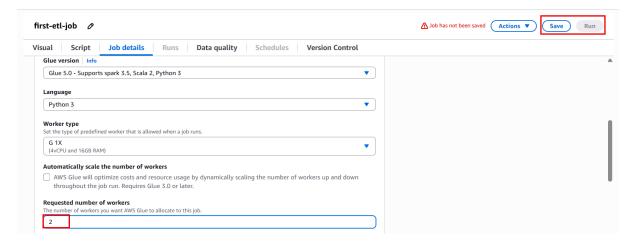


- Rename it.
- Choose the format as Parquet.
- Choose the S3 Target Location
- In Data Catalog update options, choose the "Create a table in the Data Catalog and on subsequent runs, update the schema and add new partitions"
- Choose the Database and give the table name.

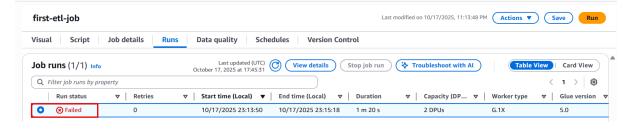


- Now go to Job details, Assign an **IAM role** with permissions to read and write from S3 (e.g., attach AmazonS3FullAccess for this lab).
- Change the Requested number of workers.
- Then Click Save and Run.

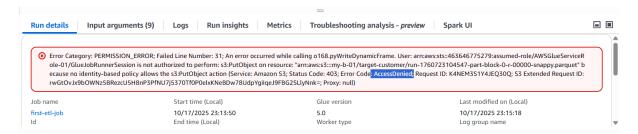




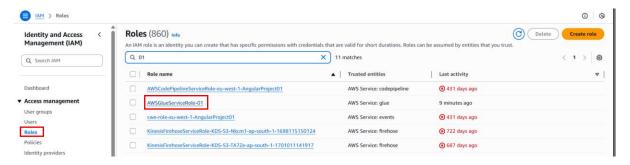
• Now we can go to Run details to check the status of the job.



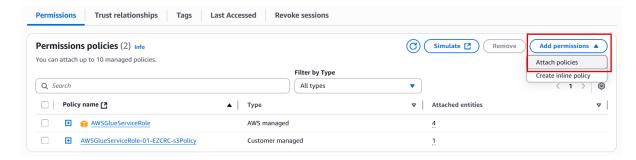
• If the job fails with "Access Denied," update the IAM role to include proper S3 permissions and rerun.



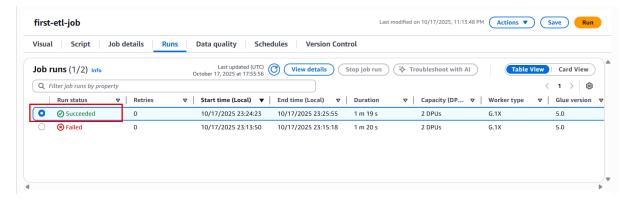
Now Go to IAM role and give the permissions



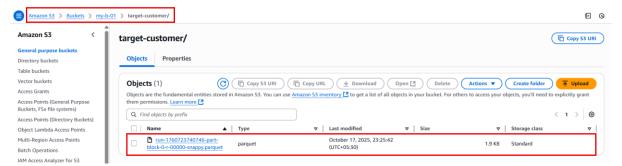
• Under Permissions, we have to attach policies for the S3 full access.



• Go back to the Job and Rerun it.



• Go back to your target-customer folder and check for the file created.



• Also, we can go the Data Catalog and in database, under tables we can see the table.

