

Optional.) Assume you are asked to get your code running in the cloud using AWS. What tools and AWS services would you use to deploy the API, database, and a scheduled version of your data ingestion code? Write up a description of your approach.

Ingest data to postgres from .txt files

1. Store all files in S3
2. Get Instance of postgres (Aurora) and run create_table.sql
3. Run aws glue Job to clean , transform the Files stored in S3 AND store them in postgres (Configure IAM roles to provide access permission to S3 and connection to postgres, run glue job etc).

Create event bridge trigger to invoke glue job in case a new files is dropped into s3 Bucket. That files will also be processed and results will be added to postgres

Fetch data via Api

1. Create new Lambda function to fetch data from postgres (Aurora). (provide all necessary permission to lambda IAM role).
2. Create new API Endpoint in AWS API gateway. In method, select lambda integration and provide the ARN value of previously created Lambda
3. Test Endpoints (postman)