

TABLE OF CONTENTS



🕕 Data Storage

04 Data Processing

D2 Data Security

05 Data Scalability

Data Ingestion

Data Analysis





This is a data management project that involves collecting, processing, and storing data from various sources in a centralized location for further analysis.

The Goal of this project is to make data readily available for analysis by extracting data from variety of sources and integrating it into a single repository, such as a data warehouse





STORAGE USED







AWS 53







MongoDB

A popular document-oriented NoSQL database that allows for flexible and scalable data management







SECURITY OF DATA



VPC

Virtual Private Cloud is a customizable and secure virtual network within AWS that allows users to launch AWS resources in a defined virtual network environment which is isolated





Authenticated Users

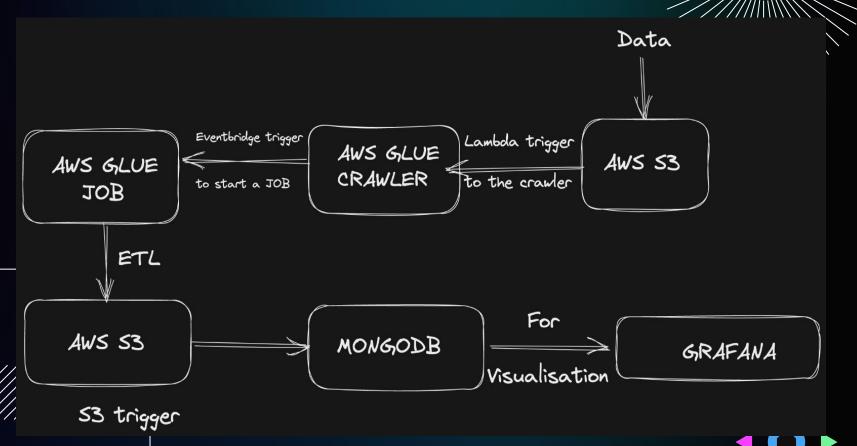
Authenticated users are individuals or entities who have successfully proven their identity and been granted access to a system or application with the appropriate permissions.







INGESTION FLOW



GET THE API KEY



API Key Copied



Customer Data Ingestion Pipeline

Email:
mayank@gmail.com

Name:
mayankjha

Organization:
India

User Authenticated

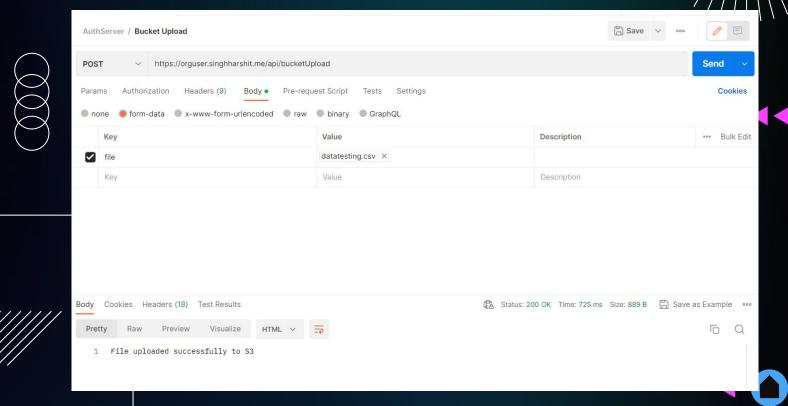
File upload status

- 1. S3 Status:
- 2. Glue Status:
- 3. Database Status:





UPLOAD FILE FROM POSTMAN







APACHE SPARK AS ETL FRAMEWORK

Apache Spark is a powerful ETL (Extract, Transform, Load) framework that can efficiently process large volumes of data from various sources and transform it into a desired format for analysis and reporting.



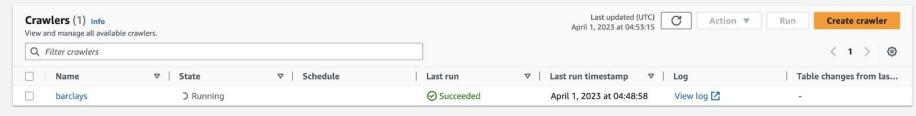


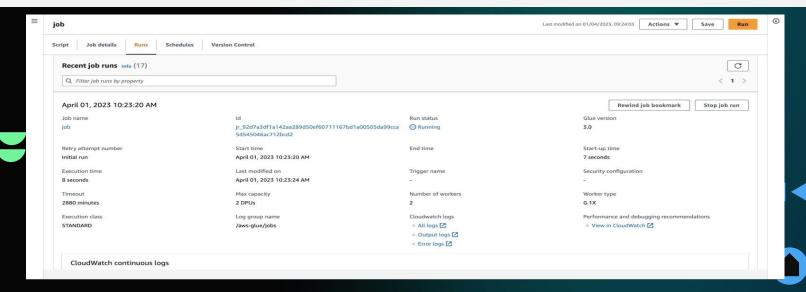


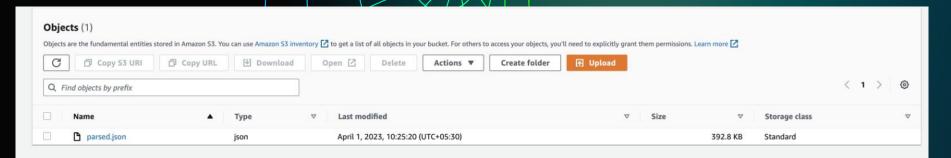


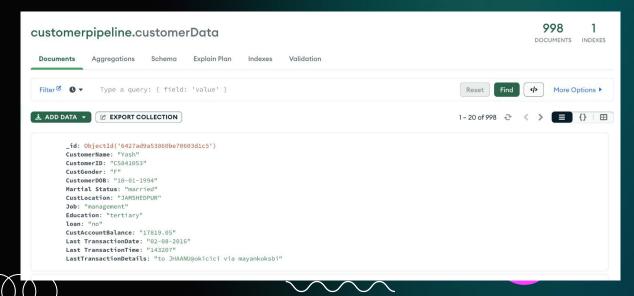
CRAWLER RUNS

A crawler connects to a data store, progresses through a prioritized list of classifiers to determine the schema for your data, and then creates metadata tables in your data catalog.



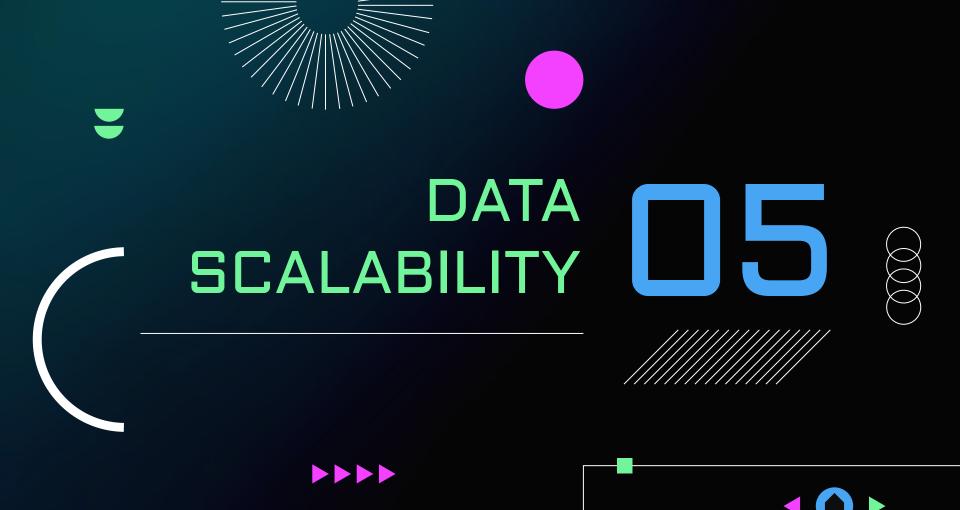












PROPERTIES FOR SCALABILITY



Serverless



Event Driven





Big Data
Processing



Resilient







GRAFANA TO BE IMPLEMENTED

3





DUR TEAM





Anupama Jha

Harshit Singh



Mayank Jha

Shashank Kumar



