



CASE STUDY

Improved Search Performance and Data Accuracy Through a Multi-Source Ingestion Tool

About the client

The client is a British publishing, business intelligence, and exhibitions group. Headquartered in London, it has its presence in 43 countries.



Challenge

The client faced a slew of challenges that have been highlighted below:



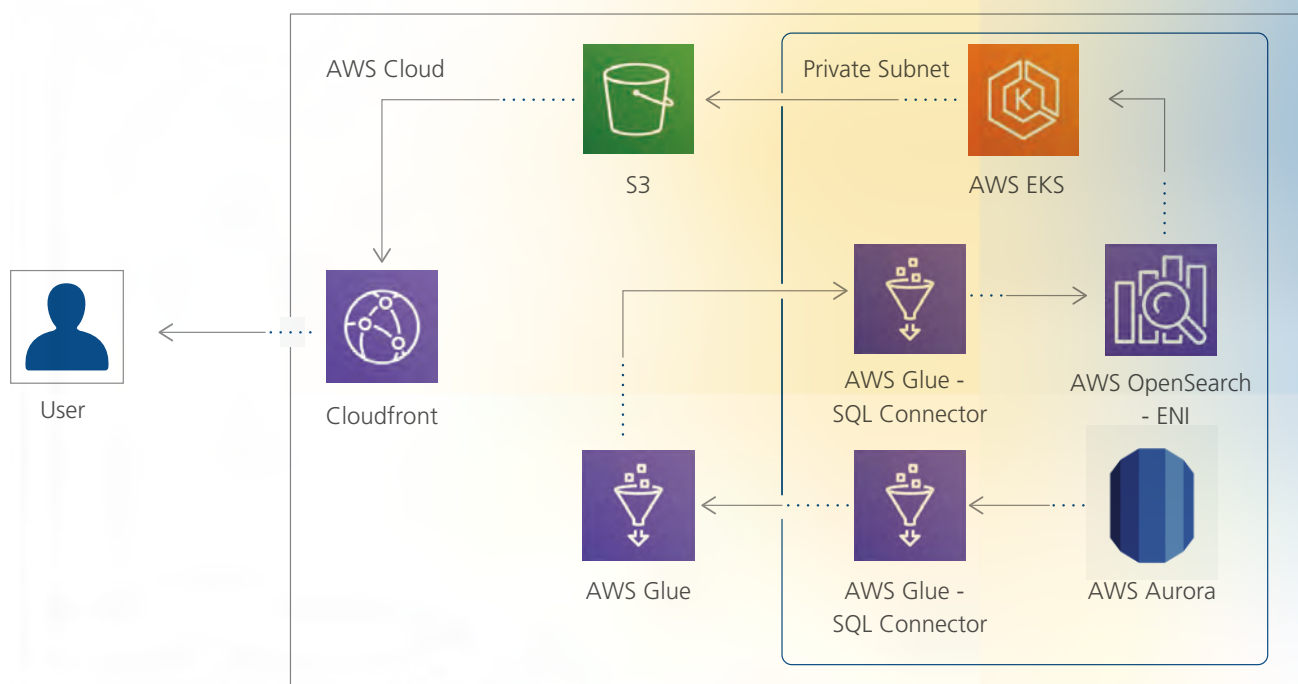
- Given that the existing windows-based content authoring tool was developed 20 years ago, scalability was an issue.
- The issue of the tool's poor performance impacted productivity.
- There was a lot of manual dependency, leading to errors.
- The client was not able to cover the existing public domain comprising:
 - 45,000 identified sources.
 - Structured and unstructured data coverage.
 - 310,000+ clinical trials, 440,000 investigators, 77,000+ drugs, 165,000+ sites, and 255+ diseases in eight major therapeutic areas across 166 countries.

LTIMindtree's Solution



- LTIMindtree's team worked with the client and executed a comprehensive solution to address their needs. Here are the solution highlights:
- It is an AWS native solution with best practices incorporated.
- The solution involves a multi-source data ingestion tool to automatically source and ingest structured and unstructured data from various sources.
- The ingested data is curated processed and stored in the Central Data Repository.
- Availability of AWS OpenSearch to increase search efficiency.
- Uses microservices on AWS EKS and ReactJS to create, edit and, view structured data and provides the functionality for workflow management.
- Task and queue workflows incorporated to simplify their business process.

PICTORIAL REPRESENTATION OF OPENSEARCH SOLUTIONS



Business Benefits



LTIMindtree's solution led to several benefits for the client, including:

- Timely availability of data in almost real-time. The lag in searched data reduced by six times.
- Average performance of complex search improved by 5-10 times. In some cases, it has improved by 24 times.
- Highly available, scalable, and easy to maintain.
- The auto ingestion design allows large scale coverage with more than 80 data sources/registries.
- Highly responsive content authoring tool and user-friendly workflow for the content team.
- Easy to onboard new products.

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