



Mindtree

A Larsen & Toubro Group Company



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.



Challenges

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.
- Accuracy and timely availability of the data was a necessity, given that more than one million records had to be searched

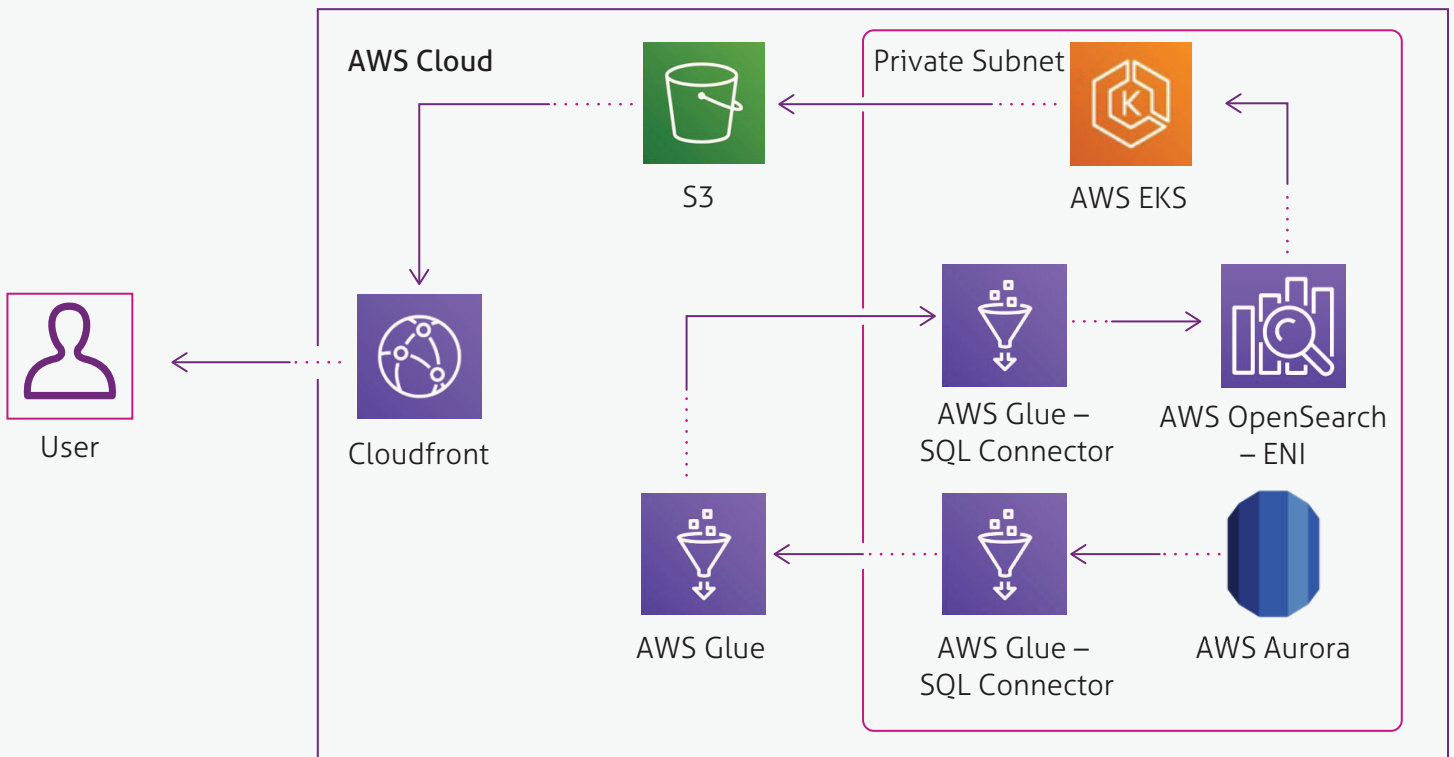


Mindtree's solution

Mindtree'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**

Mindtree'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

About Mindtree

Mindtree [NSE: MINDTREE] is a global technology consulting and IT services company that enables enterprises across industries to drive superior competitive advantage, customer experiences and business outcomes by harnessing digital and cloud technologies. A digital transformation partner to more than 275 of the world's most pioneering enterprises, Mindtree brings extensive domain, technology and consulting expertise to help reimagine business models, accelerate innovation and maximize growth. As a socially and environmentally responsible business, Mindtree is focused on growth as well as sustainability in building long-term stakeholder value. Powered by more than 35,000 talented and entrepreneurial professionals across 24 countries, Mindtree — a Larsen & Toubro Group company — is consistently recognized among the best places to work.