Tiger Analytics

Data and Analytics Platform Leveraging Amazon Glue & Redshift for a Global Pharmaceutical Major

A leading US pharmaceutical firm aimed to shift from on-premises infrastructure to a centralized cloud data ecosystem. They faced long infrastructure setup times, lacked data standardization, and had disjointed model development. We established a strong data foundation, automated provisioning with AWS Redshift, and modernized their data environment. Reduced provisioning time to a day, enabled data asset reuse, standardized structures for quicker projects, and achieved cost savings with AWS Redshift's serverless model.

The Background

Our client, a prominent global pharmaceutical firm headquartered in the United States, specializes in pioneering research, development, and the commercialization of innovative medicines, vaccines, and animal health products. Currently relying on an on-premises infrastructure, the client faces a prolonged process, often spanning weeks, for infrastructure setup. As part of their strategic vision, the client aspired to establish a centralized, resilient, and standardized cloud data ecosystem

Key Challenges

The infrastructure enablement process is inconsistent and time-consuming, often spanning several weeks. There is a lack of standardization in data and machine learning operations, resulting in fragmented processes. Additionally, there is no unified approach to model development, leading to a disjointed experience.

Our Solution

\ Established Robust Data Foundation: We assessed fundamental needs, examined the current data and analytics ecosystem encompassing tools, frameworks, and use cases, and made informed tool and service selections.

\ Utilized Automated DataOps Framework with AWS Redshift: We designed an automated solution for provisioning, established a Unified Control Environment, and rigorously validated and tested the solution.

\ Operationalized and Modernized: We migrated two local models to the cloud, following industry best practices. We fostered collaboration among data science tools and facilitated insights using a visualization tool, QuickSight, ensuring a modernized and efficient data environment.

Tech Stack

/ AWS   **/ AWS Redshift**   **/ AWS Glue**

Value Delivered

/ We slashed the provisioning time for environments, services, and roles across multiple regions, markets, and verticals, reducing it from one month to just one day.

/ We established a resilient framework featuring a centralized data lake, leveraging Amazon S3 and AWS Redshift. This empowered us to repurpose existing data assets for various projects effectively.

/ Through the standardization of data structures and role-based access, we accelerated onboarding and decreased turnaround time for new projects.

/ Embracing the serverless architecture of AWS Redshift, we achieved significant cost savings by capitalizing on the "Pay as You Go" model for infrastructure provisioning.

About Us

Tiger Analytics is a global leader in AI and analytics, helping Fortune 1000 companies solve their toughest challenges. We offer full-stack AI and analytics services & solutions to help businesses achieve real outcomes and value at scale. We are on a mission to push the boundaries of what AI and analytics can do to help enterprises navigate uncertainty and move forward decisively. Our purpose is to provide certainty to shape a better tomorrow.

Being a recipient of multiple industry awards and recognitions, we have 4000+ technologists and consultants, working from multiple cities in 5 continents.

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