

FinLake on AWS

Enhance financial reporting and compliance with advanced analytics & artificial intelligence

Financial service companies must maintain strict compliance with regulatory bodies to ensure liquidity and other standards are maintained, support high-volume and inconsistent data flows, and build complex economic models while protecting vast amounts of sensitive data. By modernizing legacy infrastructure with AWS, companies can significantly improve the quality of reporting by centralizing and standardizing their data ingestion process and leveraging advanced AWS data services to enable the implementation of domain models, while aligning to upstream reporting requirements.

Caylent's proven AWS Financial Services Consulting Competency and experience with modernizing infrastructure, migrating data platforms, and implementing generative AI address these challenges with an agile, data-centric strategy.

Caylent's data experts will partner with you to build a modern data platform that enables standardizing data for reporting agencies, aggregating upstream data feeds into a unified data model, ingesting third-party data sets to augment risk modeling, and implementing data quality checks across the organization. Our FinLake solution will shorten your time to value and set you up to easily grow your data platform by scaling ingest sources through low-code solutions.

Engagement Details

Highlights

- Replace vendors with AWS serverless services such as AWS Lake Formation, Amazon S3, AWS Glue, and AWS Glue workflows
- Easily scale your business, data sources, and pipelines through prebuilt IaC automation
- Run no-code data analysis leveraging Amazon Athena and AWS Glue DataBrew
- Establish a future-proof platform that's ready for next-generation AI and analytics

Deliverables

- Data landscape educational workshop and requirements documentation
- Architecture diagram of data lake and data workflow designs
- MVP Serverless Data Lake
- EDA lab on data wrangling and data stewardship
- Diagrams and documentation developed during the engagement (i.e. source code, scripts, templates, and other artifacts)

Key Activities

Discovery

A workshop examining the current data lake foundation, establishing data exploration needs, and documenting requirements for data import, access patterns, and reporting compliance.

Implementation

Delivering a well-architected baseline infrastructure, data ingestion routines, and security model supporting a data lake within a production account with up to 3 single schema sources imported.

Enablement

An EDA lab providing hands-on experience using AWS Glue DataBrew and Lake Formation, performing CRUD and search operations via API, SQL queries via Athena, and data analysis with QuickSight.