



Mindtree

A Larsen & Toubro Group Company



Building a Data Lake Platform in AWS for Dashboard and Critical Reporting



Client overview:

InfraHedge is a subsidiary of State Street Corporation that is headquartered in London and specializes in building and operating industrial strength infrastructure solutions for institutional investors in hedge funds. They are experienced in building efficient financial operations infrastructure that delivers accuracy and completeness. Mindtree combined this experience with a deep understanding of operational issues faced by institutions seeking to make hedge fund investments.



Challenges:

- InfraHedge aims to provide institutional independent governance including service provider oversight and independent monitoring against pre-established investment guidelines and risk reporting.
- As an end to meeting this objective, client provides a service within the agreed SLA timeframes to the investor in the form of dashboard (performance, guidelines, and risk) with a breakdown by investor and fund or any other level of granularity.



Solution:

Mindtree developed a v platform leveraging on-demand scalability and massive parallel processing capabilities. This involved re-platforming and redesigning the entire process, from data gathering to analytics and insights generation.

The solution comprises:

- An ETL structure that can process data after application of business rules from various sources like fund admin, prime broker, and custodian.
- The ETL is built for various services that the client offers to its investors i.e., risk/guideline monitoring, and accounting operations.
- The GUI File upload utility that can be used to insert/validate data directly by the operations team.
- A rules engine that can assist in maintaining investments below thresholds due to regulatory directives or when client-driven.
- ETL deployed on AWS cloud that can enable end users to access information from anywhere.

Technologies used:

- Database: SQL Server 2008 R2 Standard Edition in **AWS EC2 instances**
- ETL: SQL Server Integration Services 2008 R2 in **AWS EC2 instances**
- Reporting tool installed in **AWS EC2 instances**
- Web Portal: **ASP.Net File Upload utility**
- **AWS CloudWatch, AWS VPC, subnets, NACLs**



Business benefits:

Reduced information latency

Productivity gain because of automated data collation and reporting

Increased accessibility of data for the business team

Robust data maintainability and archival

Reduced data quality issues

About Mindtree

Mindtree [NSE: MINDTREE] is a global technology consulting and 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 260 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 31,900 talented and entrepreneurial professionals across 24 countries, Mindtree — a Larsen & Toubro Group company — is consistently recognized among the best places to work.

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