

ETL MIGRATION TO AZURE CLOUD

Data Analytics on Azure Cloud

Overview

This is a case study of one of the clients of Pyramid Solutions who migrated from their existing EDW Ecosystem to Hadoop. This case study describes the benefits of migrating to Hadoop, Challenges with existing Ecosystem, Solution for the problem, Migration Methodology, and the security on Hadoop.

Business Objective

- ▶ To identify all sources of data required for a centralized BI solution.
- ▶ To import transactional data from multiple sources to the cloud through a robust service.
- ▶ To reduce the daily manual work in Data changes, synchronization, and maintenance.

Business Solution

- ▶ Evaluated a few solutions and selected Microsoft Azure for end-to-end data analytics solution.
- ▶ Azure Data Factory to orchestrate data collection from various sources, Azure Data Lake Store/ Azure storage.
- ▶ Use Azure HDInsight or Azure Data Lake analytics to crunch the data.
- ▶ Use Azure SQL Data Warehouse as the data hub for reporting.
- ▶ Azure Analysis Services is the presentation layer that serves data to Power BI or Tableau for Data Visualization.

Conclusion

- ▶ Processed a large volume of data.
- ▶ Reduced storage cost.
- ▶ Met the compliances around online data access.

Business Benefits

- ▶ Low maintenance overhead and drag-and-drop feature to move data seamlessly from over 60 sources without writing code.
- ▶ Moving to the cloud helps Reduce Capex and Opex costs.
- ▶ Ability to auto scale according to the demands of usage.
- ▶ Machine learning and data mining features for Business decision.
- ▶ Hybrid deployment flexibility is also integrated with SSIS package, SSAS models etc.
- ▶ Azure Solution is certified by HIPAA/HITECH, ISO/IEC 27001, ISO/IEC 27018 and CSA STAR.

Key Solution Provided

- ▶ Created and modified mappings as per business requirements.
- ▶ Combine data, bring data together, Data Integration - Azure data factory.
- ▶ Create an Azure Data Pipeline and invoke an existing package as the client requested to reuse.
- ▶ Define schema/warehouse - Azure SQL database or data warehouse.
- ▶ Data Transformation- Azure Datalake analytics/HDInsight.
- ▶ Analyze Data - Azure analysis service.
- ▶ Transport Data/ Data Migration - Azure data factory.
- ▶ Stream real-time data / Real-time Data ingestion.
- ▶ Data Visualization - Tableau & SSRS.

About Pyramid

Pyramid Consulting Inc. is a global technology and process driven software solutions company offering customer centric solutions. With knowledge and experience of the entire IT lifecycle, we help enterprises streamline core IT processes and augment their competitive advantage. Pyramid's global delivery model harnesses productive tools, agile methodologies, iterative processes and expert frameworks to provide innovative and cost-effective solutions.

Our domain and industry experts engineer robust technology solutions for clients in a wide range of industries including retail, logistics, healthcare, insurance, software development, financial services, media, publishing and telecommunications.

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