

D&A TRANSFORMATION TALES

Empowering a Big5 Consulting Giant with a Scalable Data Lake Solution



BACKGROUND

The client is one of the Big5 professional services firms, providing audit, tax, and advisory services globally. Their Australian operations faced challenges in consolidating and analyzing data from multiple sources and cloud tenants. They needed a centralized data repository and advanced analytics capabilities to gain insights and drive better decision-making. Here are the challenges for which the client teamed up with Aspire to implement a robust data management solution:

- **Data silos:** The client had data scattered across multiple cloud tenants, making it difficult to access and analyze data holistically.
- **Diverse data formats:** Data was stored in various formats, making it challenging to integrate and process.
- **Analytics requirements:** The client required both descriptive and predictive analytics to gain insights from their data.
- **Consolidated data view:** The client needed a single, consolidated version of data points for consistent reporting and analysis.
- **Data organization:** Establishing a regular schedule and proper data organization was crucial for efficient data management and analysis.



SOLUTION

Leveraging our extensive experience in designing and implementing robust data solutions for enterprises, our experts took a comprehensive approach to address the client's challenges. Our team of experts meticulously analyzed the client's requirements, carefully considering the complexities involved in consolidating data from multiple cloud tenants, enabling advanced analytics capabilities, and establishing a structured data organization.

With a deep understanding of the Azure cloud platform and its cutting-edge services, our experts architected a tailored solution that seamlessly integrated various components to create a cohesive and scalable data ecosystem. Our solution strategy was driven by industry best practices, proven methodologies, and a relentless pursuit of excellence, ensuring a reliable and future-proof implementation.

Below is our approach to resolve the client's presented challenges with our strategic approach:

- **Data Lake Store:** Our experts set up a centralized Data Lake Store to ingest and store structured, semi-structured, and unstructured data from multiple sources.
- **Data Pipelines:** Azure Data Factory was used to create multiple data pipelines for data orchestration, scheduling, and automated data ingestion into the Data Lake Store.
- **Analytics Engine:** The Cortana Analysis Suite (CAS) provided an integrated set of components, including U-SQL for combining SQL and C# programming, and Azure Machine Learning for advanced analytics and predictive modeling.
- **Data Visualization:** Power BI was integrated to create interactive dashboards and visualizations, enabling the client to gain insights from their data.



TECHNOLOGY SNAPSHOT

- Azure Data Factory
- Data Lake Store
- Data Lake Analytics
- Azure Machine Learning
- Blob storage
- Power BI for Visualization



BUSINESS BENEFITS

- From multiple cloud tenants into a single location
- Advanced analytics for deeper insights and make data-driven decisions
- Automated data ingestion
- Consistent reporting and analysis across the organization
- Ability to handle growing data volumes and the flexibility to integrate with other Azure services as needed



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