Architected and Implemented a Data Lake for a Big5 Consulting Firm

The Customer

Our customer is a part of global network of professional services firm providing audit tax and advisory services where part of their operations are carried out in Australia.

Needs

Our customer was looking to digitize their business operations. As a part of that, they were in need of a partner to do a technical proof of concept on Cortana analysis suite (CAS's) data lake set of offerings. Some of the needs were:

→ Bring in data from multiple cloud tenants into a single location

→ Run Descriptive and Predictive Analytics on those data

→ Establish a regular schedule as well as data organization for the above

→ Need for one consolidated version of data points

The Solution

Aspire did a detailed analysis and brought in the data from different sources into Data Lake Store using Data Factory

→ Used U-SQL for Descriptive, and Azure Machine Learning (ML) for Predictive Analytics. It combines the power of Declarative(SQL) as well as Imperative(C#) programming.

→ Used Azure Data Factory to create multiple Data pipelines for data orchestration and scheduling.

→ Cortana analysis suite (CAS) provided an integrated set of components.

→ Azure ML provided an extensive and extensible set of algorithms, reducing the need to look for an external source.

The Result

→ Now the customer have a Data Lake where they can bring in data from multiple sources, irrespective of the size of the data.

→ Able to run both Descriptive and Predictive analytics on the data.

→ Seamless to and fro data flow into the data lake.

→ Improved data security and scalability.

→ Better integration with BI tools.

→ Data orchestration brings on more agility in handling data.

→ Readiness to handle challenges in the future in terms of data & analytics.

→ Overall, the solution became a natural extension of the customer's existing investments.

Technology Snapshot

→ Azure Data Factory

→ Data Lake Store

→ Data Lake Analytics

→ Machine Learning

→ Blob storage

ABOUT ASPIRE

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