



Local Council

Case Study

Migrating a major solution for this client into the cloud



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PROBLEM

Our client, a large local council processes hundreds of thousands of parking tickets each week. The current reporting solution takes parking payments from multiple solutions and using tariff information, calculates details on how the end fee is formed.

This information is then used by the solution owner to determine aspects such as how many customers paid on the second charge, how many early bird customers there were, etc.

Their current solution used old services such as an on-premise analysis services which was quite costly.

The client engaged Exposé to design, develop and implement a scalable, cost effective and future proof solution which would set the pathway for other solutions to follow the same pattern.

SOLUTION

Exposé developed a new target reference architecture for this solution which would allow for scalability, whilst meeting all security requirements.

Once finalised, all of the on-premise data was moved out of the existing expensive SQL databases and converted to Parquet files and stored in a more cost effective Azure data lake. This was all done using Azure data factory.

Once the data was stored within the DataLake, all the payment processing was undertaken using a mixture of SQL vCore and SQL Synapse Serverless.

Finally for reporting, analysis services was eliminated, and all the reporting (leveraging Power BI) was completed by connecting to the Synapse SQL Service.

BUSINESS BENEFITS

By moving the solution to the new targeted reference architecture, it has created a base for our client moving forward with their digital data strategy. Other solutions can leverage this architecture as it is modular and scalable.

By eliminating SQL Analysis services and deploying all their processing to SQL vCore and SQL Synapse serverless, they were able to cut costs by approximately 200% per month.

By migrating their solution to a cloud environment, they were able to move their security from Public End Points to Private End Points, which creates a more secure environment.