



## Establish a Data Management Platform with Azure Synapse Analytics



### THE CHALLENGE

Since mid-2020, the customer has been faced with the task of developing a uniform, central and open data platform in accordance with the group's operating specifications.

A large number of group-wide projects with requirements for high data throughput should be able to benefit from the advantages of a modern data platform through automated provision within a very short time. The in-house specified configurations meet all corporate requirements in terms of security and compatibility in a future-proof manner and offer cost savings, reliable performance and high reliability in addition to quick and easy integration into existing systems.

### THE CONTRIBUTION BY PROTOS

As a certified HashiCorp & Microsoft Partner (Silver - Data Analytics), PROTOS Technologie GmbH has been supporting the customer since the beginning of 2020 in setting up the Azure reference architecture for the Data Management Platform, which can be self-provisioned via a service portal. In addition to the consulting services, PROTOS implements the highly automated provisioning of the platform based on HashiCorp Terraform.

### THE SOLUTION

The aim of the project is to offer a Group-wide and uniform Data Management Platform (DMP) for IT projects within the Group. In the process, the entire infrastructure will be set up according to Group-wide operating specifications. The connections run mainly via the Microsoft backbone and not publicly via the Internet. The DMP can be ordered via a group portal for all IT teams and is provided on it in an automated way. Synapse Analytics enables operation for users without programming knowledge.

Microsoft Azure Cloud was chosen as the provider for building a data management platform. This option offers intelligent solutions for storing, managing and analyzing growing volumes of complex customer data.

For data storage, a Data Lake Gen2 architecture is deployed which, in combination with Synapse Analytics, provides a simple interface for data scientists. Processing is performed on the underlying Apache Spark pools and SQL pools. In the future, integration with the data catalogue will be ensured with Synapse Analytics.

### THE BENEFITS



#### Deployment and Operation

The DMP provides fast, accessible and cost-effective access to the Group's collected data.



#### Compliance Compliant Set Up

The in-house specified configurations meet all group specifications regarding security and compatibility.



#### Reliability

The modern data platform offers reliable performance and high reliability.

### ABOUT PROTOS TECHNOLOGIE GMBH

As an interface between IT and management, we work hand in hand with you. We support your team as consultants in your current cloud topics such as migration, re-design, security and technical project management. To learn more about how PROTOS Technologie GmbH can benefit your company, visit [www.protos-technologie.de](http://www.protos-technologie.de).

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