



SQL Server Transition

SQL Server Trends & Challenges

SQL Server has been improving itself on each new version. Although it is traditionally known as a Relational Database, latest versions also include platform capabilities like integration with Apache Spark and also HDFS. Beside those, as an underlying platform, SQL Server now supports also Linux and Docker. Another important news for SQL Server 2008, whose is approaching to its End-of-Life during 2019, which means that customers will not be able to get vendor support.

kloia solution: SQL Server Transition

SQL Server Transition can improve your current platform together with its new features.

Initially, kloia runs a session for the purpose of understanding your objectives and priorities for this transition. This helps to provide you the optimal solution for your transition.

Some of the possible transition objectives can be:

- Performance Optimization
- Cost Optimization
- End-of-life / Support

Based on your objective(s), there can be various solution alternatives. In order to determine appropriate scenarios for your transition, kloia runs an assessment session on your current Software and Database structure. This helps to understand the constraints of the software architecture which effects the proposed solution. This assessment includes deep-dive sessions about your approach to Database from Software perspective. By the end of this session, the dependency between the current Database structure and your software is identified. Based on this assessment, one of the following options is offered:

- SQL Server 2017 on Linux
- AWS RDS SQL
- AWS Aurora

The next phase includes to identify your custom requirements which will affect the implementation phase. Those may include:

- I/O requirements
- Backup Policy
- Monitoring and Alarm

The last phase includes the implementation which includes two steps:

- Installation/Configuration: Based on the requirements, we develop “as-code” using Terraform
- Migration: The main responsible of this phase is determined based on the resources on customer

As a summary, the steps for the solution are:

- 1- Objectives & Priorities:** Identifying your underlying motivation for this transition
- 2- Assessment:** Deep assessment of the dependency between the current Database structure and your Software
- 3- Solution Offering:** Based on your constraints and software architecture, offer a Database alternative
- 4- Installation/Configuration:** Development of your solution with “as-code”
- 5- Migration:** Migration of the Data and switch-over