





# Canvas Sunshine

Accelerating Data-driven cloud transformation on Azure Synapse Analytics



### Overview

Data modernization is a critical aspect of digital transformation initiatives that organizations are embarking upon. Today, more than ever, organizations are producing and consuming diverse datasets and data volumes at a rate that current legacy data warehouse and on-premise systems simply cannot scale to handle. Organizations are upgrading to modern data warehouse platform like Azure Synapse.

However, migrating to cloud is a huge task. Data migration, schema migration and all other business logics built in would need lot of efforts, time and high risk.

To mitigate this, we designed an Accelerated Migration from On-Premise Appliances to Synapse, which addresses all the issues and risk involved in migration.

## Why Canvas Sunshine?



**Faster Migration** 



Cost Saving



Controlled Risk



**Reduced Efforts** 

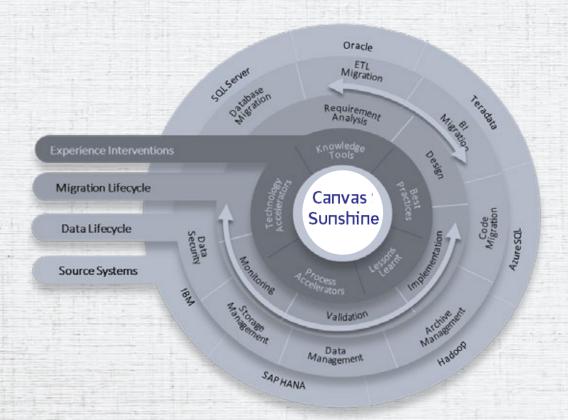


### Canvas Sunshine

The goal of Canvas Sunshine is to reduce the overall manual efforts required to move from on-premises to the cloud, by making your data migration journey timely, predictable and cost-effective

### Canvas Sunshine Advice

Our sunshine technology and consulting framework for data migration to cloud ensures our consultants to work with you to understand the business vision, current data, infrastructure, architecture and process landscape by having workshops and interviews with executive stakeholders, business, and technical SMEs to develop a data modernization strategy customized and aligned with your organization's strategy, vision and business goals.





### Value

- Support for Object, Data and scripts migration leveraging best practices of Synapse.
- Option to use native methods or automated ADF pipelines for data upload.
- Automated Validation Toolkit.

Analyze

3+ On-Premise Appliance conversion supported.



- Describe current challenges
- Understand future ambitions
- Study current landscape & systems



#### **Business Case & TCO Calculation**

Develop business case for Data modernization with Synapse data platform with cost estimation across Azure products consumption



### **Target Architecture Definition**

Define and develop end stage architecture using cloud native Azure smart analytics solutions & native services



- Learnings from our experience of data modernization programs
- Industry best practices



### **Execution Strategy**

Formulate data modernization execution approach and develop roadmap and plan to migrate Azure Synapse and native services



### Canvas Sunshine

Sunshine automates the process of conversion of scripts from one database to another, provides reports by analyzing the source database such that we get a better understanding of the source and make decisions on what needs to be migrated and what can't be handled. Also, it provides a feature to audit the objects in source and target to ensure the integrity and correctness of data.

### Source Examiner

- Capture existing application landscape details.
- Capture inventory of Data Migration in scope including Tables, Views from Source.
- Summary of Findings

### Synapse Convert

- Auto Migrate DB Objects like tables, views from Source DB to Synapse
- Smart conversion leveraging the best practices of Synapse.
- Smart table creation with appropriate distribution type based on the Table type
- Data Processing logic migration (Stored Procedures and UDF)
- Unit & Integration testing

## Synapse Upload

- Trigger historical data migration of each Application.
- Parallel run of Source and cloud DWH (Synapse)
- Identify and fix the errors during migration.
- Monitor performance, optimization if needed.

### Smart Data Auditor

- Reconciliation between Source and Synapse migrated application to compare
  - Record counts, Sum of values of numeric fields
  - Distinct keys for dimension and fact tables
  - Compare string lengths, full row-by-row and column-by-column match
- Fix issues if any

### 80% Automation

#### **60% Automation**

### 80% Automation

#### 80% Automation

#### Note

- $\cdot \ \, \text{Accelerators are available from Teradata/SAP HANA/Vertica to Azure Synapse and also from Teradata/SAP HANA/SQL server to Snowflake.}$
- · Additional accelerators from other DBS cab be built as needed.





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