

Synapse to Fabric Migration

The client, is an American video game publisher based in Redmond, Washington. Established in March 2000, it focuses on developing and publishing video games for gaming consoles

Impact



Performance improvement of ~24% for Data Refresh



90% improvement in Direct Query



50% better performance in import mode

BUSINESS CONTEXT

A gaming studio in Xbox division relied on Azure Synapse for data processing and analytics. However, they recognized the need for a more flexible and scalable solution.



OBJECTIVE

The primary objective is to migrate from Azure Synapse to Microsoft Fabric while minimizing disruption to ongoing operations. The Xbox gaming studio aims to achieve the following:

- Improve performance and scalability.
- Simplify management and reduce operational overhead.
- Leverage Fabric's features for lakehouse architecture, notebooks, and data pipelines.



SOLUTION HIGHLIGHTS

Assessment:

- Conducted a detailed assessment of existing Synapse pipelines and Power BI reports.
- Identified dependencies, workload characteristics, and system architecture.
- Customized a migration plan for the specific workloads.

Synapse Pipelines Migration:

- Transferred Synapse pipelines to Fabric.
- Ensured compatibility between Synapse and Fabric features.
- Migrated pipeline activities, configurations, and dependencies..

Power BI Reports Migration:

- Replicated Power BI reports in Fabric.
- Adjusted data connections to point to Fabric data sources.
- Validated report functionality and performance.



CHALLENGES

- ✓ Ensuring seamless transition for Power BI users.
- ✓ Handling any differences in data schema between Synapse and Fabric.
- ✓ Coordinating user access and permissions during the workspace transition.

Reporting Observability using Microsoft Fabric

The client, is a cloud-based software provider with focus on people management and payroll solutions.

Impact



Reporting observability of ~24% for Data Refresh



90% improvement in Direct Query



30% optimization leading to cost efficiencies

BUSINESS CONTEXT

The client had a diverse reports and visualization landscape and wanted assistance on BI modernization along with traceability of reporting usage and governance.



OBJECTIVE

The primary objective is to migrate existing Synapse workloads to Fabric while enabling reports transformation and observability.

- Reporting usage, workspace and capacity metrics
- Simplify management and reduce operational overhead.
- Leverage Fabric's features for lakehouse architecture, notebooks, and data pipelines.



SOLUTION HIGHLIGHTS

Reports Readiness for Fabric:

- Assess feasibility of Synapse pipelines to Fabric.
- Assess feasibility of existing PowerBI reports migration to Fabric OneLake
- Assess pipeline activities, configurations, and dependencies..

Power BI Reports Observability:

- Dataflow / Dataset Time of Refresh Start
- Dataflow / Dataset Time of Refresh End
- Type of Refresh, Type of Data Sources(environment) used in different report, dataset and dataflow.(Not True Source)
- Tables Details/
- Tenant View
- User Activity performed on Report



CHALLENGES

- ✓ Ensuring seamless observability for Power BI users.
- ✓ Coordinating user access and permissions during the workspace transition.