Data Migration from On-Premise AX to On-Cloud F&O using Azure Services

Overview

Dynamics 365 for Finance & Operations (F&O) connects all processes and departments including procurement, sales, logistics, productions, projects, financial, service and business administration in the cloud to empower customer to run business more efficiently, stimulate growth and achieve organizational agility. It can be easily integrated with existing systems and scaled up to include global operations as and when required, adapting to changing business needs at customer's pace

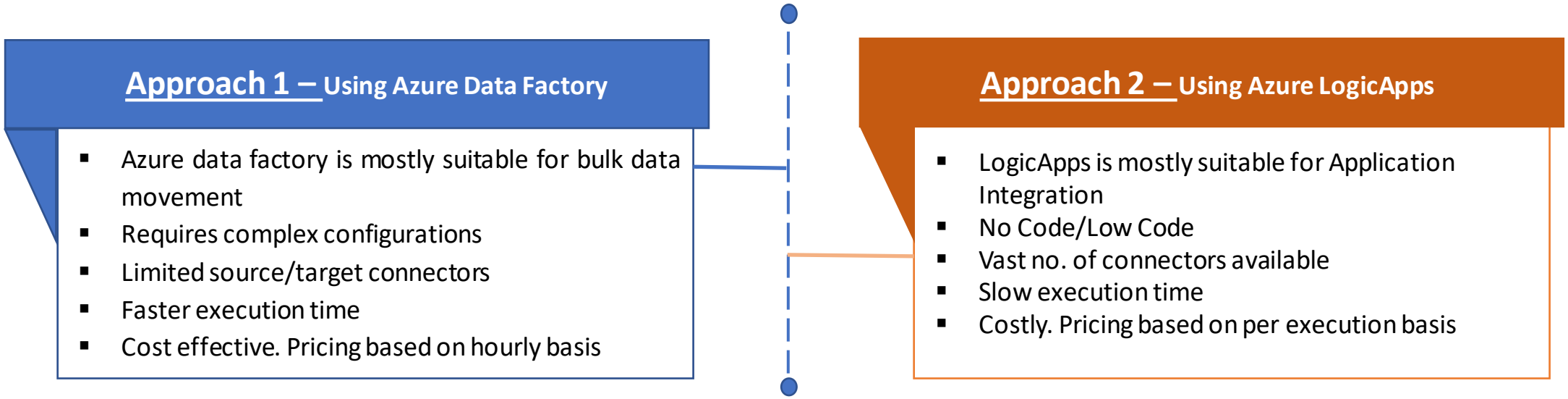
This solution document specifically focuses on the Azure services approach to perform the Data Migration of Dynamics ERP Application from on-premise (**Microsoft Dynamics AX 2009\2012**) to on-cloud (**Microsoft D365 F&O**).

Challenges with other available Data Migration Approach

- Monotonous process of migration from on- premise to cloud using data migration framework
- Traditional approach requires physical server availability for archive or historical data, leads to high maintenance
- Scalability issue
- Load on environment is high thus makes it slow and inefficient
- Environment setup for migration is a complex process

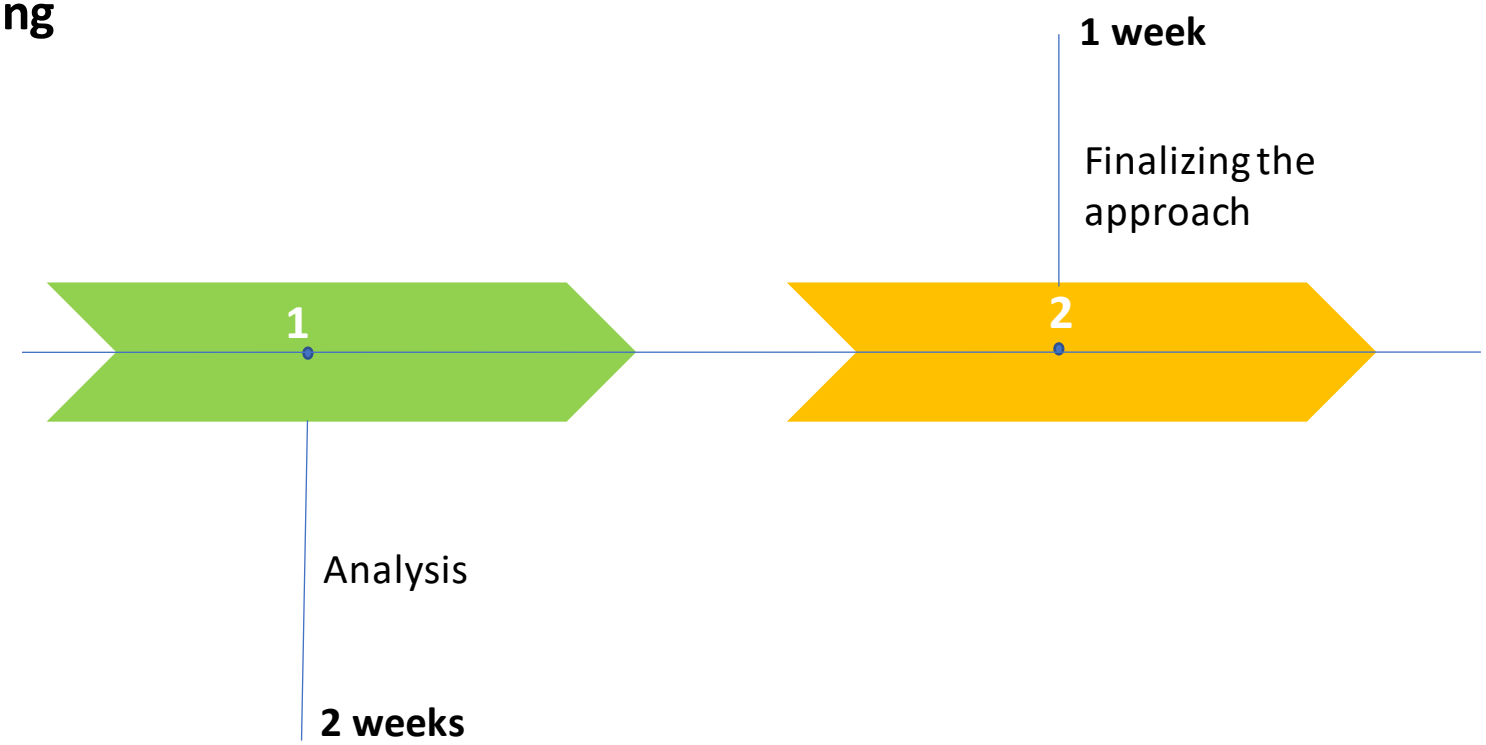
Solution Highlights

There are multiple ways to migrate data from on-premise to on-cloud using Azure Services. LTI with its deep domain expertise built two methodology to ease migration process and delight customer experience.



- LTI has assessment Tool for AX 2009 Data Migration
- Inbuilt assessment tool for AX 2012 Data migration
- Above mentioned assessment approach would provide customer total no of tables for data migration, bifurcation of standard and customized tables, how many objects customized in the layers etc.

Timeline and Pricing



Note: Actual timeline will depend on customer's current landscape

- Initial assessment would be free of cost
- Estimation would be given for detailed PoC activity

Technology Components

Microsoft Dynamics AX

Microsoft Dynamics F&O

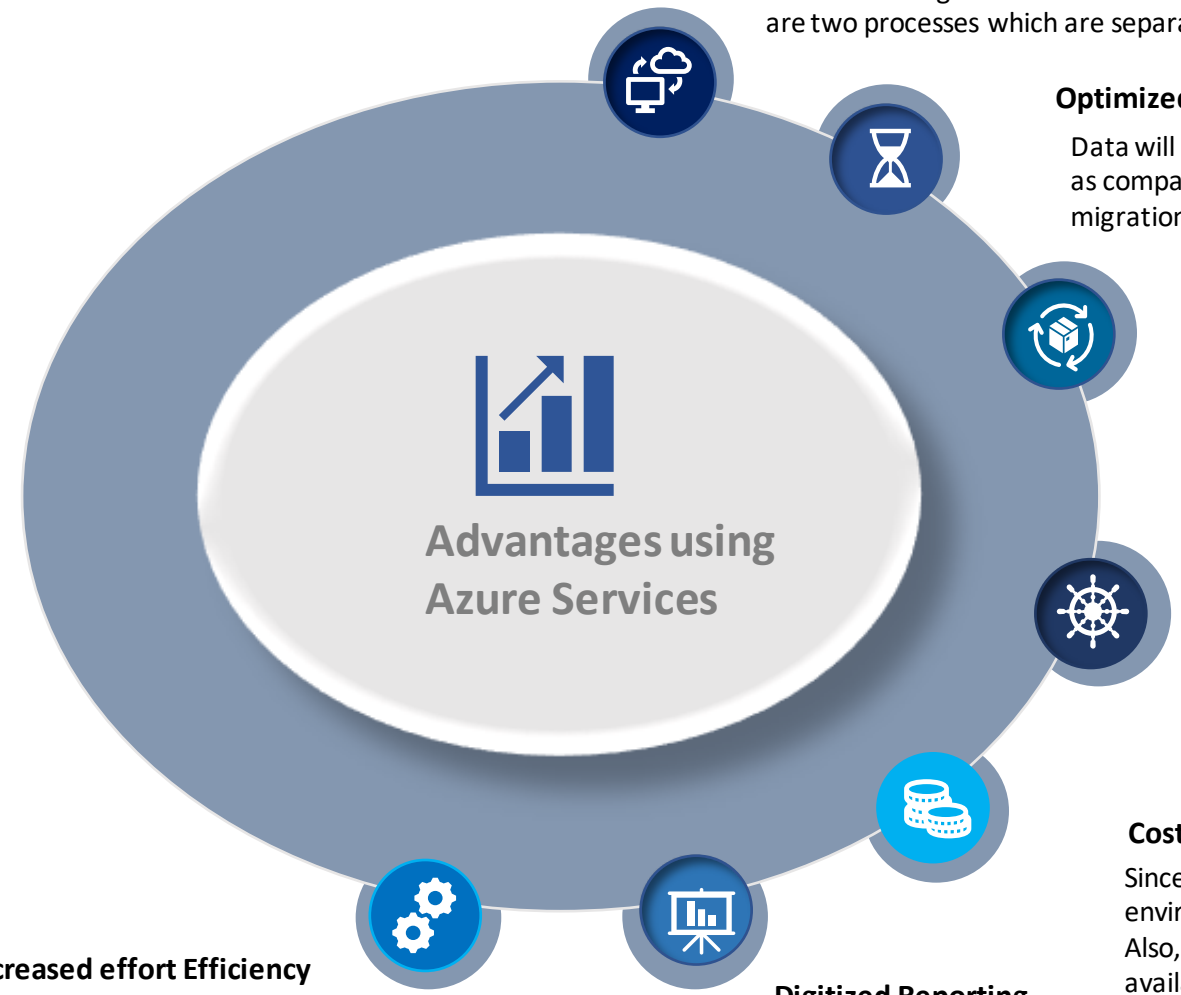
Azure

Power BI

Azure Services used:

- **Azure Data Factory** is the cloud-based ETL and data integration service that allows to create data-driven workflows for orchestrating data movement and transforming data at scale. Using Azure Data Factory, one can create and schedule data-driven workflows (called pipelines) that can ingest data from disparate data stores
- **Azure Data Lake Storage (ADLS)** has features which we can be used to connect databases to other reporting tools like Power BI or for other integrations
- **Azure Logic Apps** is an Azure service used for application integration, building workflows etc.
- **Serverless Azure SQL Database** that automatically scales compute based on workload demand and bills for compute used per second

Benefits using Azure Services



Split Migration Approach

Historic DB Migration and PROD Data migration are two processes which are separated

Optimized Time

Data will be migrated to cloud much faster as compared to traditional way of migration

Simplified Migration Process

Historic database is directly migrated to cloud and stored in ADLSwhich has taken less time and low storage cost also made migration simple

Optimized Performance

PROD database is only having opening balances and masters, this reduces the database size considerably which leads to optimal performance for day-to-day usage and low downtime

Cost Effective

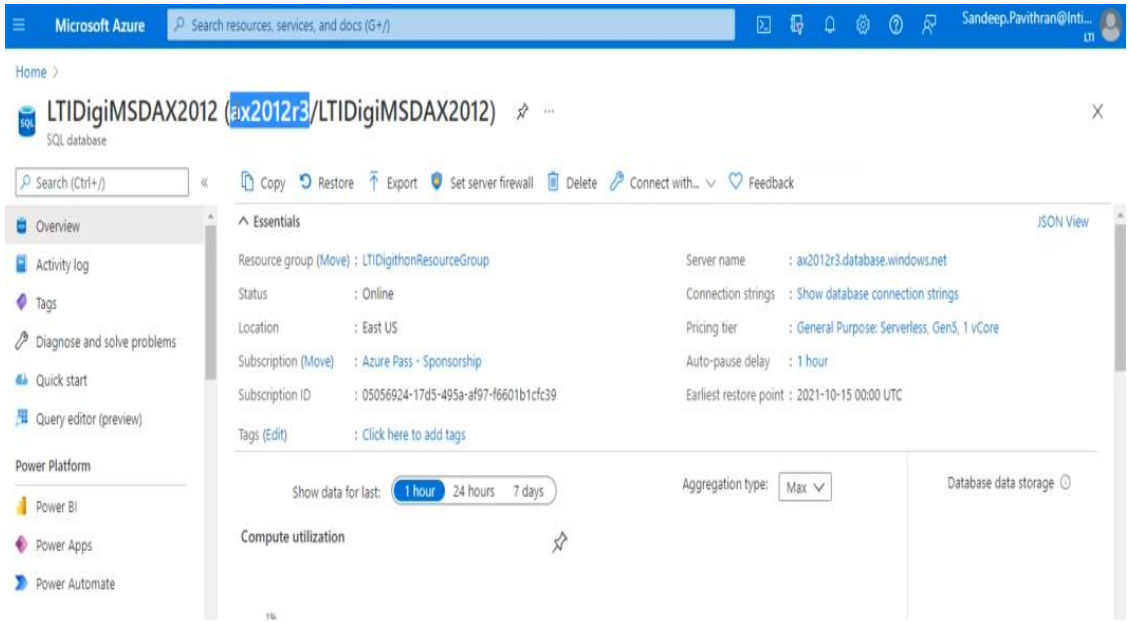
Since data has been segregated there is reduced load on environment which leads to cost effectiveness of solution . Also, additional feature of pay as you go subscription is available

Digitized Reporting

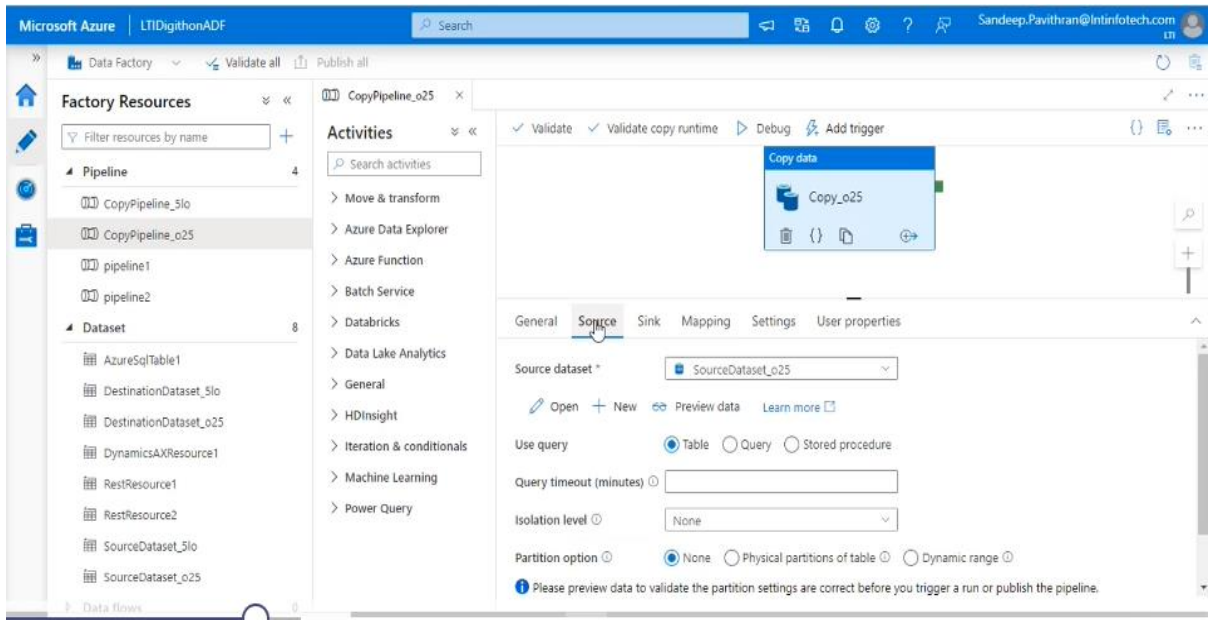
Since Historic database is stored in ADLS which can be connected to Power BI for digitization of reports

Increased effort Efficiency

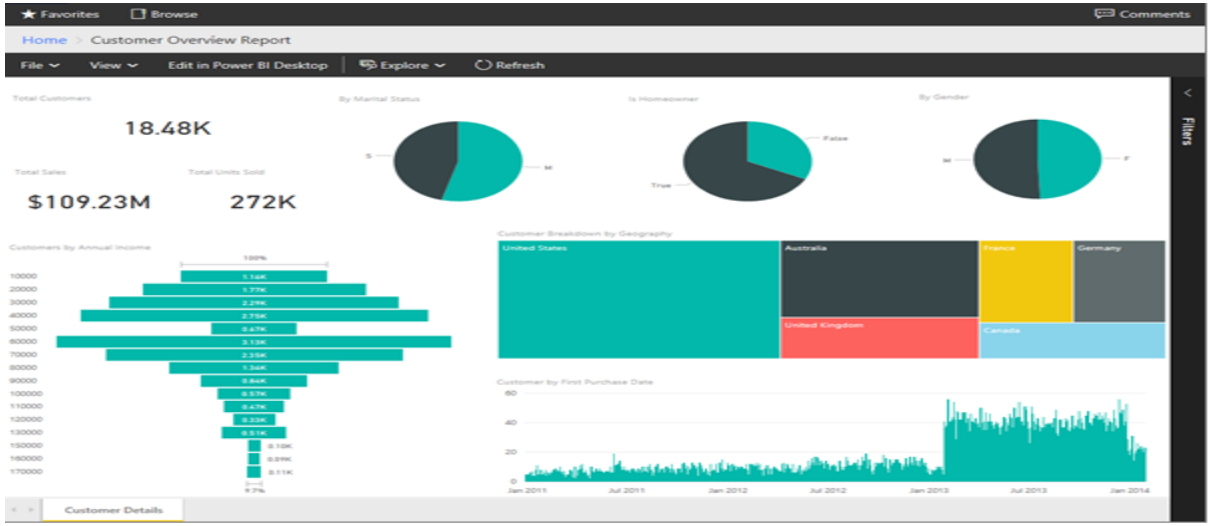
Setting cloud azure server requires minimum effort and is much more reliable



Copy from on-premise SQL to Serverless Azure SQL Database



Migrate from Serverless Azure SQL Database D365 F&O using Azure Data Factory



Data visualization in Power BI