# Test Scenario. Migrate Datawarehouse from On Premise setup to Cloud.

**Prerequisites**:

* SQL Server 2016+ installed
* Azure Subscription. If you do not have Azure Subscription, Resource Group with resources (Azure SQL, Azure Blob Storage, Azure Data Factory) they will be created for your user by us (This case should be discussed in advance).
* Visual Studio 2017+ installed

**Approximate time for accomplishing:** 1-2 hours

**Goal**: migrate part of already existing data from On Premise to Cloud storage using:

* [Azure Data Factory](https://docs.microsoft.com/en-us/azure/data-factory/)
* [Azure Blob Storage](https://docs.microsoft.com/en-us/azure/storage/blobs/)

**Scenario**. Let say you are working as a BI Developer. Your task is to migrate data for 2 tables from legacy On Premise DB to new Cloud Solution using Microsoft Azure stack.

**Results in a nutshell:**

Create process for copying data from database WideWorldImportersDW for tables Dimension.Customer, Fact.Sale from On Premise database to Azure SQL database using Azure data Factory. As an intermediate step load data into Azure Blob Storage. Everything else depends on your imagination.

**Possible steps how to achieve it.**

1. Restore On Premise database WideWorldImportersDW on local SQL Server.

Links where to get .bak file:

* <https://docs.microsoft.com/en-us/sql/samples/wide-world-importers-dw-install-configure?view=sql-server-ver15>
* <https://github.com/Microsoft/sql-server-samples/releases/tag/wide-world-importers-v1.0>

1. Deploy WideWorldImportersDW to Azure SQL DB (Publishing to Azure SQL Database).

Link where to get source code:

<https://github.com/microsoft/sql-server-samples/tree/master/samples/databases/wide-world-importers/wwi-dw-ssdt#publishing-to-azure-sql-database>

1. Create 2 (for 2 tables) Azure Data Factory Pipelines with at least two activities:

* Copy data activity for exporting data from On Premise DB to Blob Storage
* Copy data activity for loading data from blob storage to Azure SQl DB

1. Copy data from On premise to Cloud
2. Submit results, present work and relax 😊

P.S.: In case some part of the scenario is not implemented due to a time limit, it is fine to explain how it could be done during the presentation session