



Chicago Data Professionals

Azure Data Factory for everyone



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[_alpabuddhabhatti/ChicagoDataProfessionals-AzureDataFactory \(github.com\)](#)



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Agenda

1. Azure Data Factory (ADF) Overview

1.1 What is Azure Data Factory?

1.2 What are Key Components of Azure Data Factory?

1.3 What can you do in ADF?

1.4 How Azure Data Factory Works?

2. DEMO –

2.1 - ADF Quick Tour !!!

2.2 – Data Movement & Data Transformation using ADF

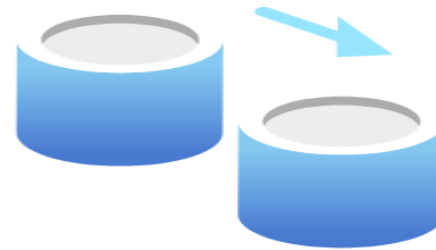


1. Azure Data Factory (ADF)



What is Azure Data Factory(ADF)?

A cloud-based data integration service that orchestrates and automates the movement and transformation of data.





What is Azure Data Factory(ADF)?

- ✓ Azure Platform as a Service (PaaS)
- ✓ It is Serverless
- ✓ Only pay for what you have use
- ✓ Low-code and no-code Solutions



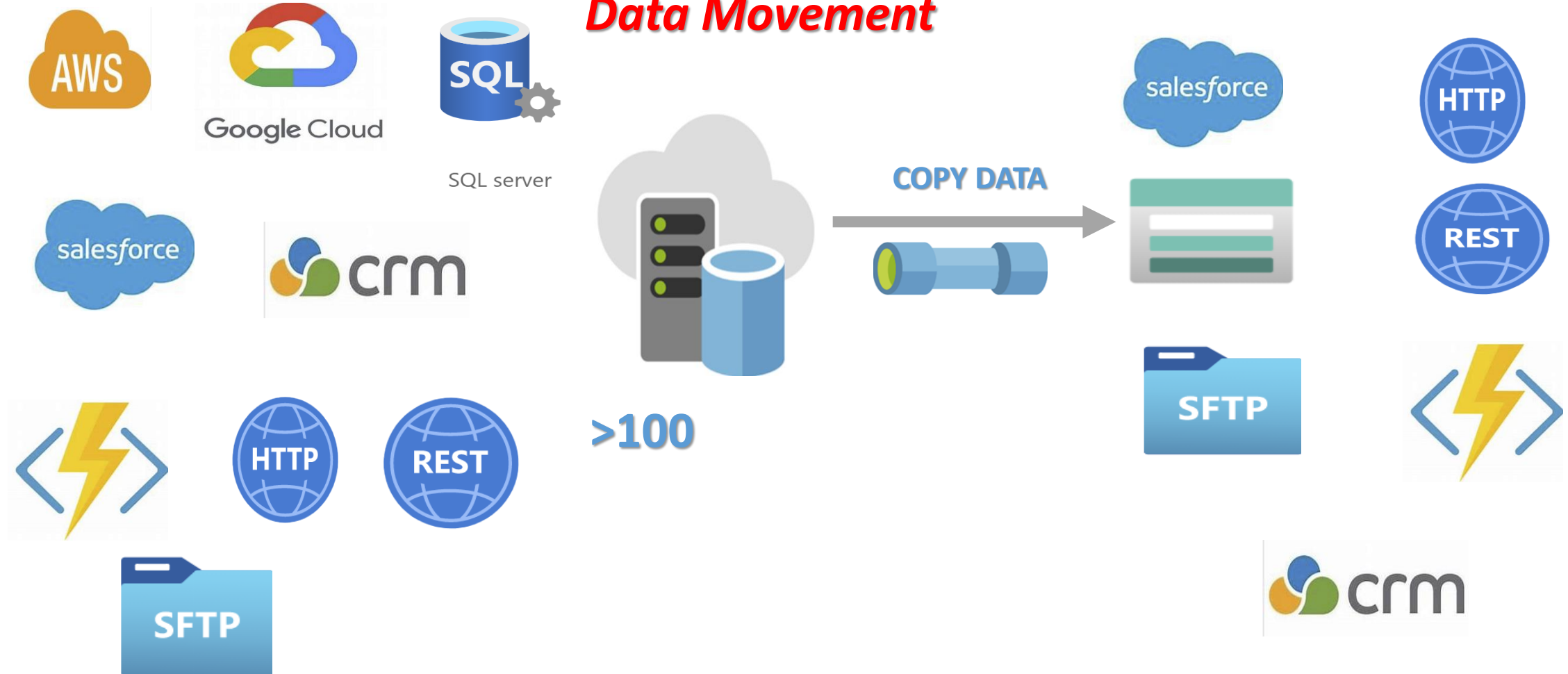
What are Key Components of ADF?

- 1 **Linked services**
- 2 **Datasets**
- 3 **Activities**
- 4 **Pipelines**
- 5 **Triggers**



What can you do in ADF?

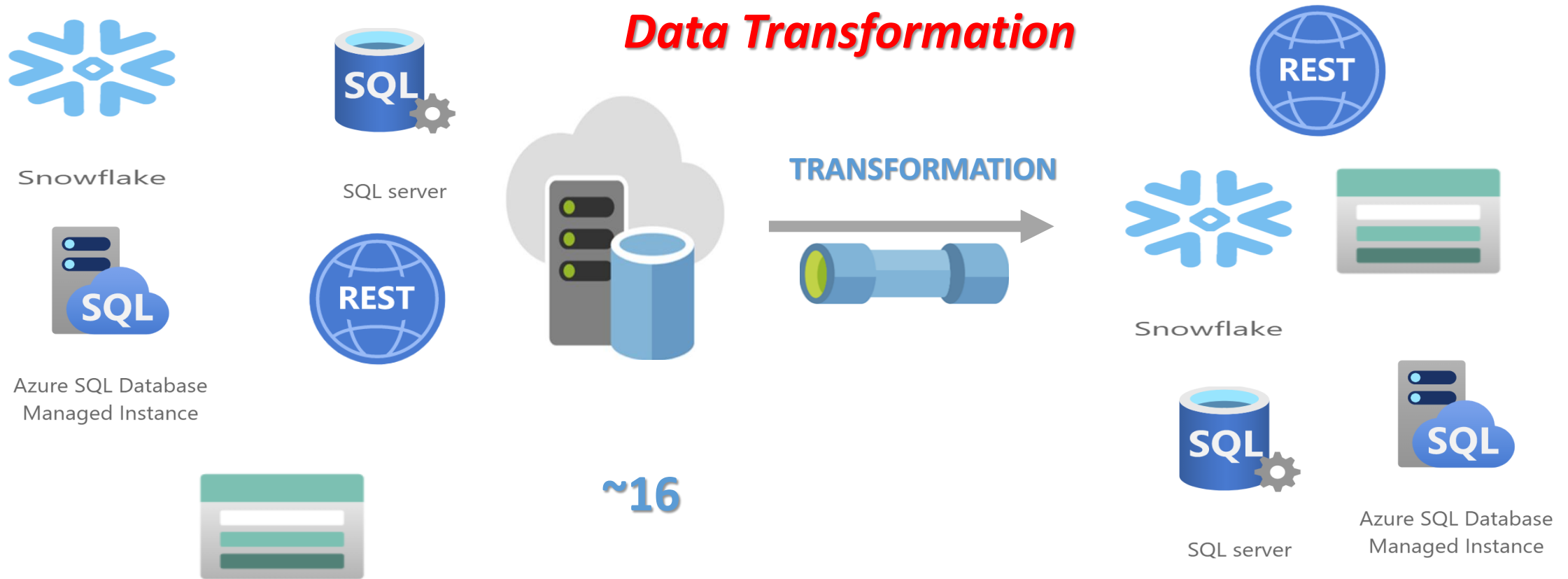
Data Movement



[Copy activity - Azure Data Factory & Azure Synapse | Microsoft Docs](#)



What can you do in ADF?



Source transformation in mapping data flow - Azure Data Factory & Azure Synapse | Microsoft Docs



What can you do in ADF?

✓ Pipelines are JSON, ready for Source Control

{ JSON }

✓ Git Integration built in

 Azure DevOps

 GitHub

✓ Monitor



✓ Manage





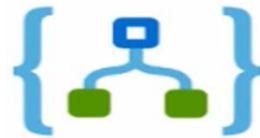
What can you do in ADF?

✓ Trigger pipeline

A Specific Time

File created or deleted from Blob Storage

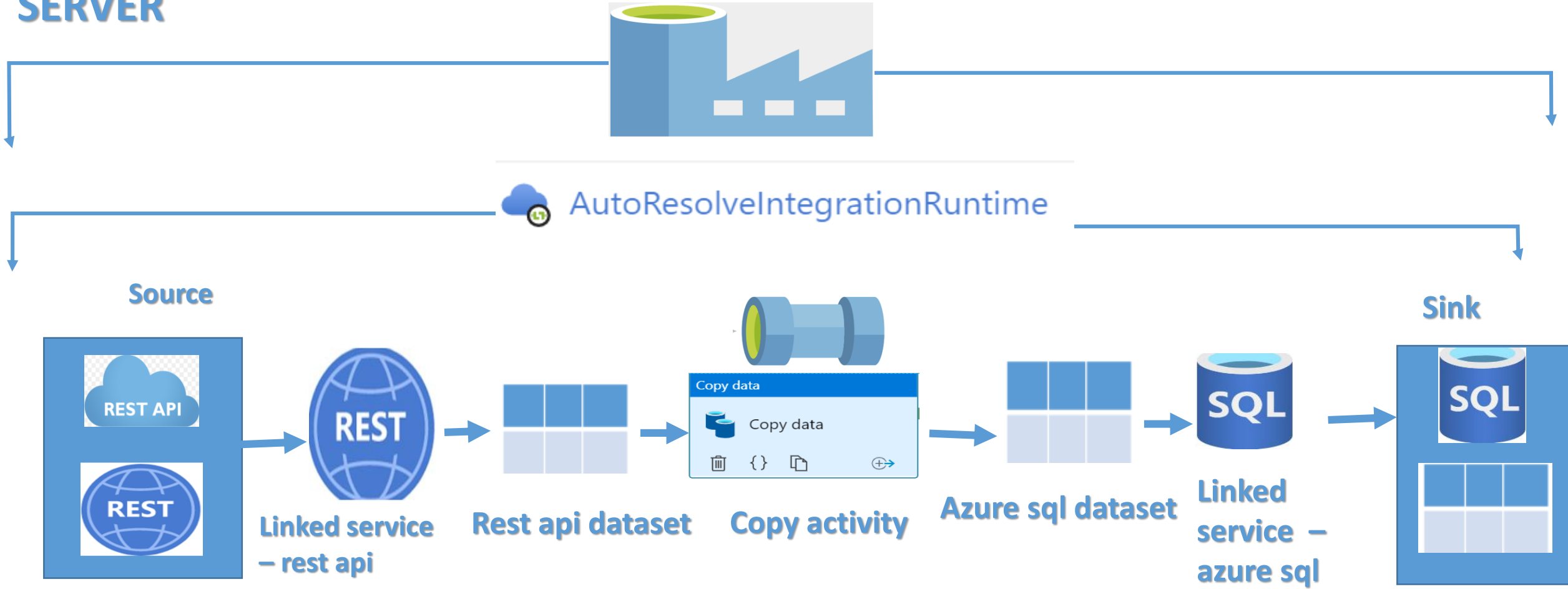
Customer Activity such as





How Data Factory Works?

Let's Imagine we have scenarios to move Data from REST API to Azure SQL SERVER

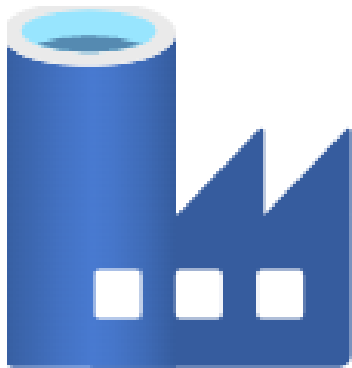




2.DEMO



DEMO



Lets have a Quick ADF Tour!!!

[ChicagoDataProfessionals-AzureDataFactory/Azure Data Factory.docx at main · alpaBuddhabhatti/ChicagoDataProfessionals-AzureDataFactory \(github.com\)](#)

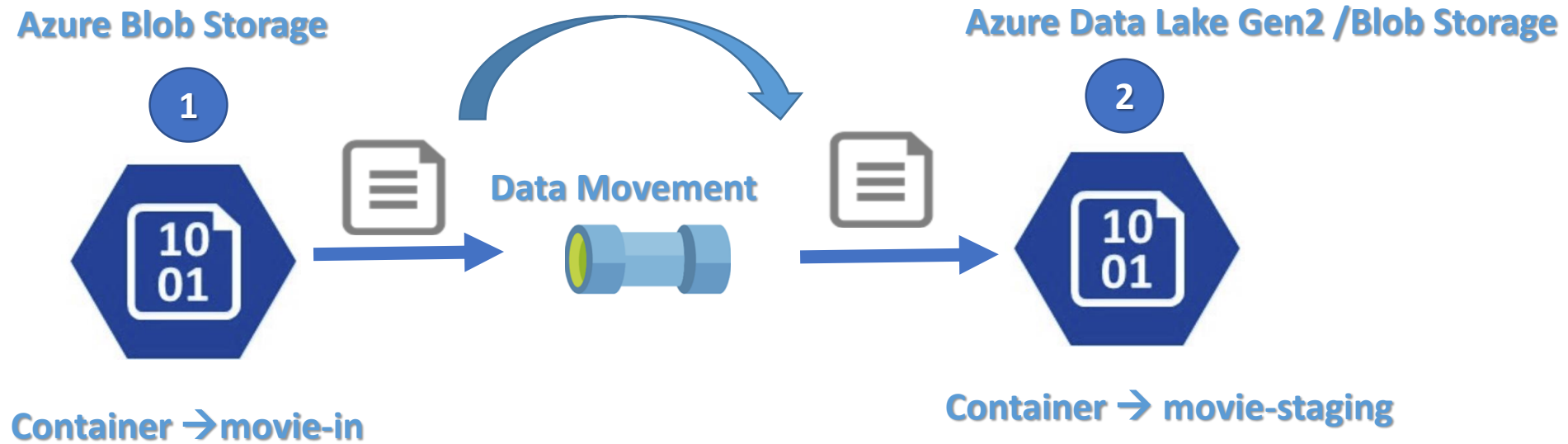


DEMO

Data Movement & Data Transformation using ADF

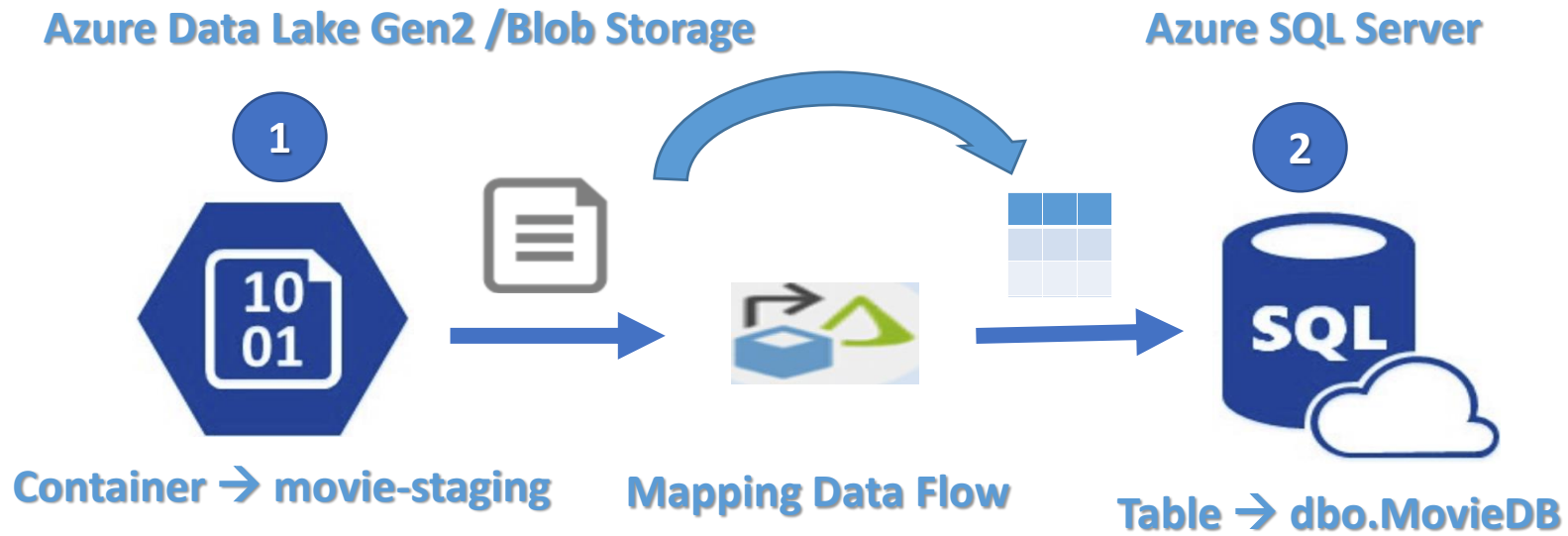


Pipeline 1





Pipeline 2





DEMO

Scenarios :

Moving data from Azure Blob storage to Azure Data Lake Gen2.

Apply Transforming on data using Azure data flow and store to Azure SQL Server.

Following Azure resources needed per environment

- ✓ ***Azure Resource group***
- ✓ ***Azure Data factory***
- ✓ ***Azure Data Lake***
- ✓ ***Azure Blob Storage***
- ✓ ***Azure SQL Server***
- ✓ ***Azure Key Vault***



Conclusion

1. **Quick Overview of Azure Data Factory**
2. **Key Component of Azure Data Factory**
3. **Azure Data Factory Quick Tour!!!**
4. **Data Movement & Data Transformation solution**



Thank you!!!!



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Questions !!!



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