

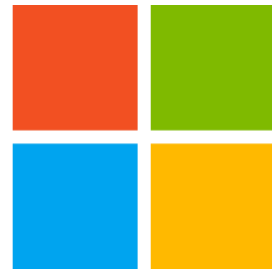


Sentiment Analysis using Azure Data Factory and Azure Cognitive service

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- Master in Computer Science
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- Microsoft Certified Trainer (MCT)
- Microsoft Certified Azure Developer(AZ-204)
- Microsoft Certified Data Engineer(DP-203)
- Microsoft Certified Data Scientist(DP-100)



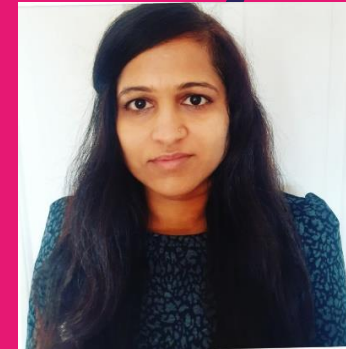
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Agenda

- 1. Azure Data Factory overview*
- 2. Azure Cognitive service for Language Overview*
- 3. Demo*
Sentiment Analysis using Azure Data Factory & Cognitive Services

1. Azure Data Factory Overview



What is Azure Data Factory(ADF)?



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

- ✓ 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 ADP?



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

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

What can you do in ADF?



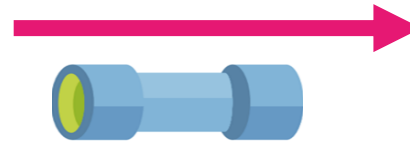
Data Movement



SQL server



COPY DATA



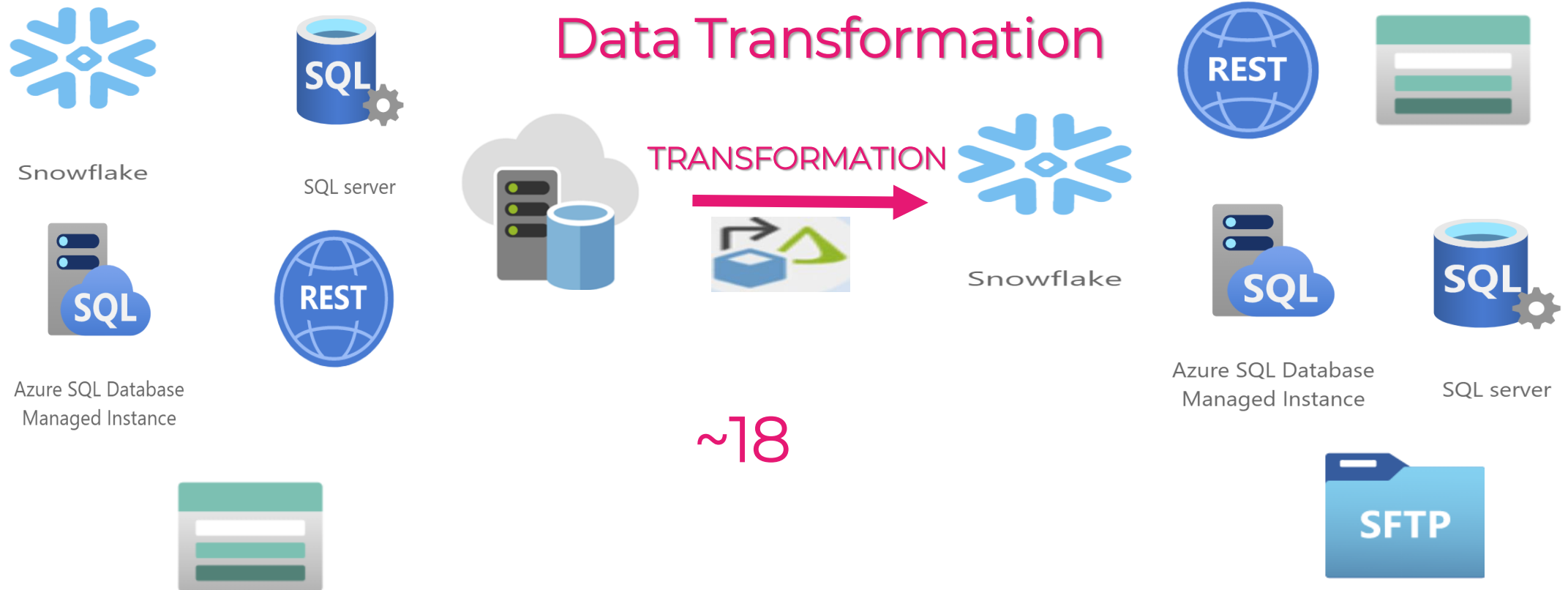
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[Copy activity - Azure Data Factory & Azure Synapse | Microsoft Docs](#)



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
- ✓ Built in Git Integration
- ✓ Monitor
- ✓ Manage

{JSON}

 Azure DevOps Git

 GitHub



What can you do in ADF?

Trigger pipeline

- ✓ A Specific Time
- ✓ File created or deleted from Blob Storage
- ✓ Customer Activity such as



2. Azure Cognitive service for Language



Azure Cognitive
Services Text Analytics

Azure Cognitive service - Language

- ✓ Azure Cognitive service for Language
- ✓ Text Analytics (Text, Documents)
- ✓ Extract, Classify and Understand text within documents
- ✓ Sentiment labels (such as "negative", "neutral" and "positive")
- ✓ NLP - Natural Language processing technique
- ✓ No code or Low code
- ✓ Create an Azure Language resource
- ✓ The REST API or the client library for C#, Java, JavaScript, and Python

2. Azure Cognitive service for Language



Azure Cognitive
Services Text Analytics

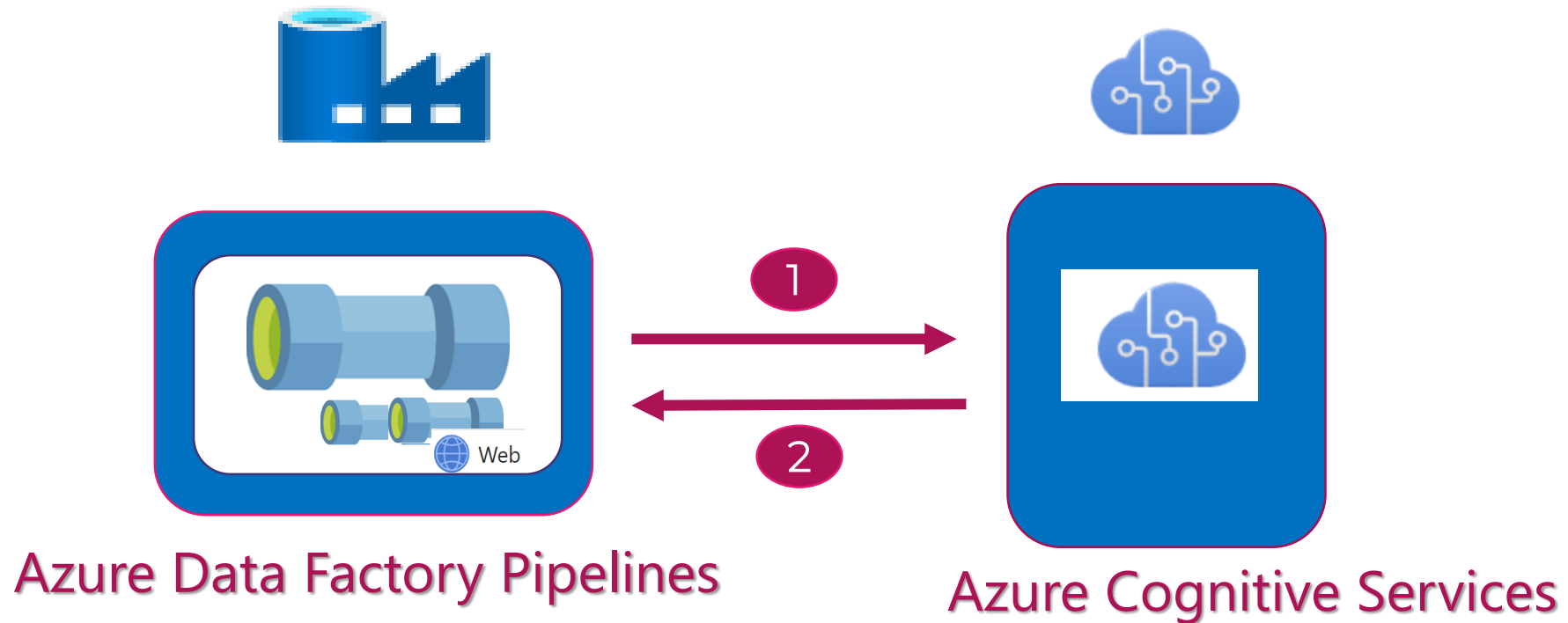
3. DEMO

Sentiment Analysis using ADF using Cognitive Services



Azure Cognitive Services Text
Analytics

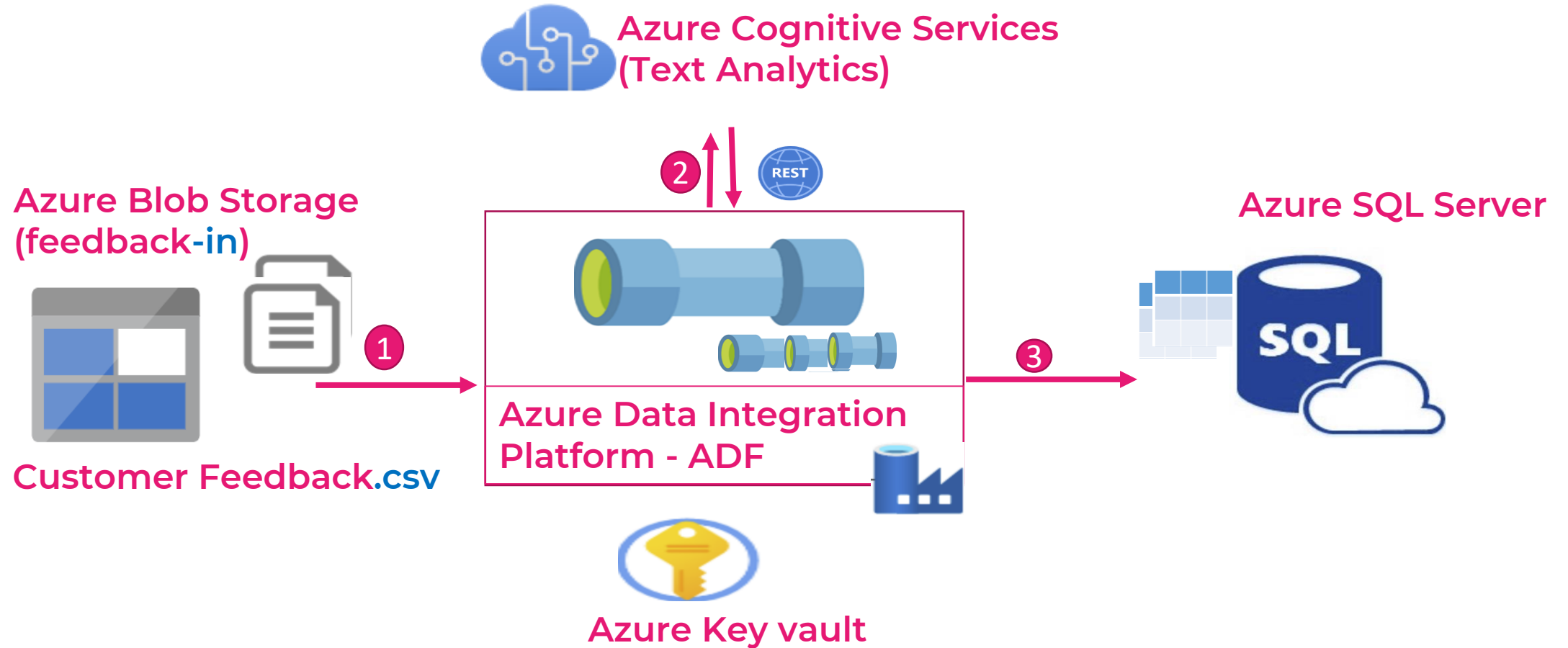
How Azure Cognitive Service integrate with ADF?



Problem Statement

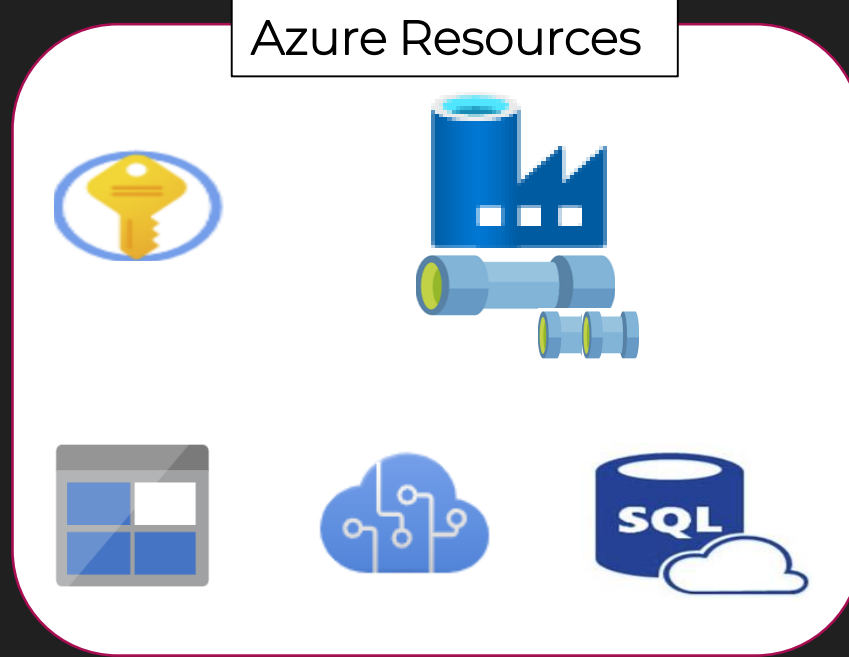
- ✓ Existence - ADF, Azure SQL Server and Azure Blob Storage
- ✓ Sentiment Analysis
- ✓ Without Data Science Expert
- ✓ No Code Low Code
- ✓ ASAP

Solution



Azure Resources

Azure Resources



Key Takeaway



Azure Data Factory

- ✓ Data Movements
- ✓ Data Transformation
- ✓ Orchestration
- ✓ Automation
- ✓ Easy to Build Data Integration solution
- ✓ Serverless and Azure PaaS
- ✓ Easy to integrate

Azure Cognitive Services

- ✓ It summarized big documents and provide sentiments
- ✓ Understand common topics and trends
- ✓ A wide range of languages
- ✓ A Gain deeper understanding about your customer sentiments

DEMO



- ✓ Read Feedbacks from Blob storage
- ✓ Apply sentiment analysis on each feedback
- ✓ Apply transformation and store data to Azure SQL Table
- ✓ Store result to Azure SQL Server

Thank you



Alpa Buddhhabhatti



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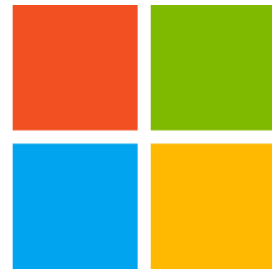
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