



Azure Data Factory, Azure Logic Apps and Power BI for everyone



DATA SATURDAY #20
Pordenone, Feb 26th, 2022



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Your contacts

- LinkedIn: <https://www.linkedin.com/in/alpabuddhabhatti/>

Your sites

- Slideshare: [alpaBuddhabhatti/DATA-SATURDAY-20 \(github.com\)](https://www.slideshare.net/alpaBuddhabhatti/DATA-SATURDAY-20)
- GitHub: <https://github.com/alpaBuddhabhatti?tab=repositories>



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Agenda

**1. Azure Data Factory (ADF)
Overview**

Demo - ADF Quick Tour !!!

2. Power BI Overview

Demo - Power BI Quick Tour!!!

3. Azure Logic Apps Overview

Demo – Azure Logic Apps Tour!!!

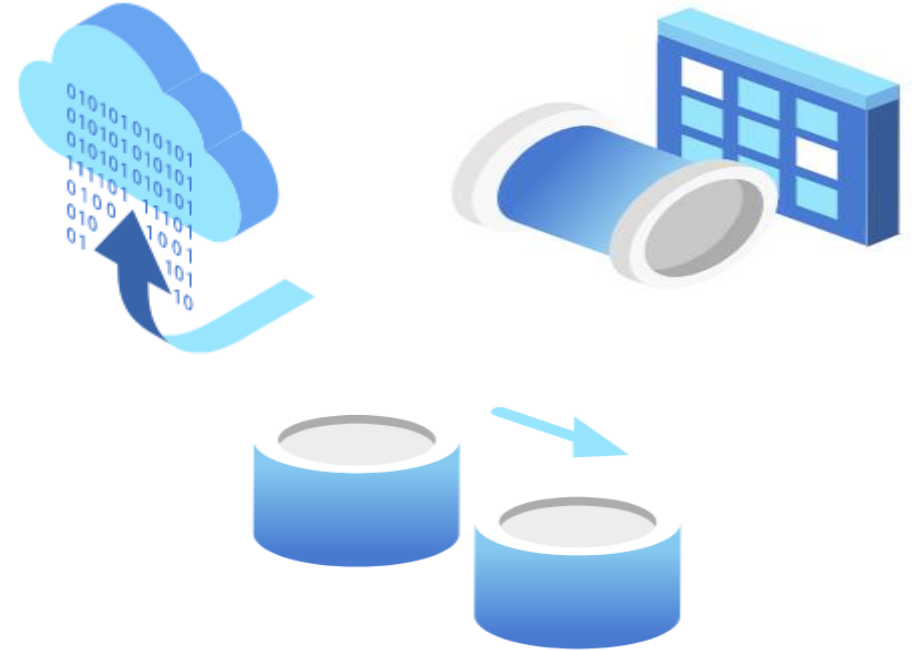
4. DEMO –

**Refresh Power BI Dataset using
Azure Data Factory & Logic Apps**

5. Tools

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)?

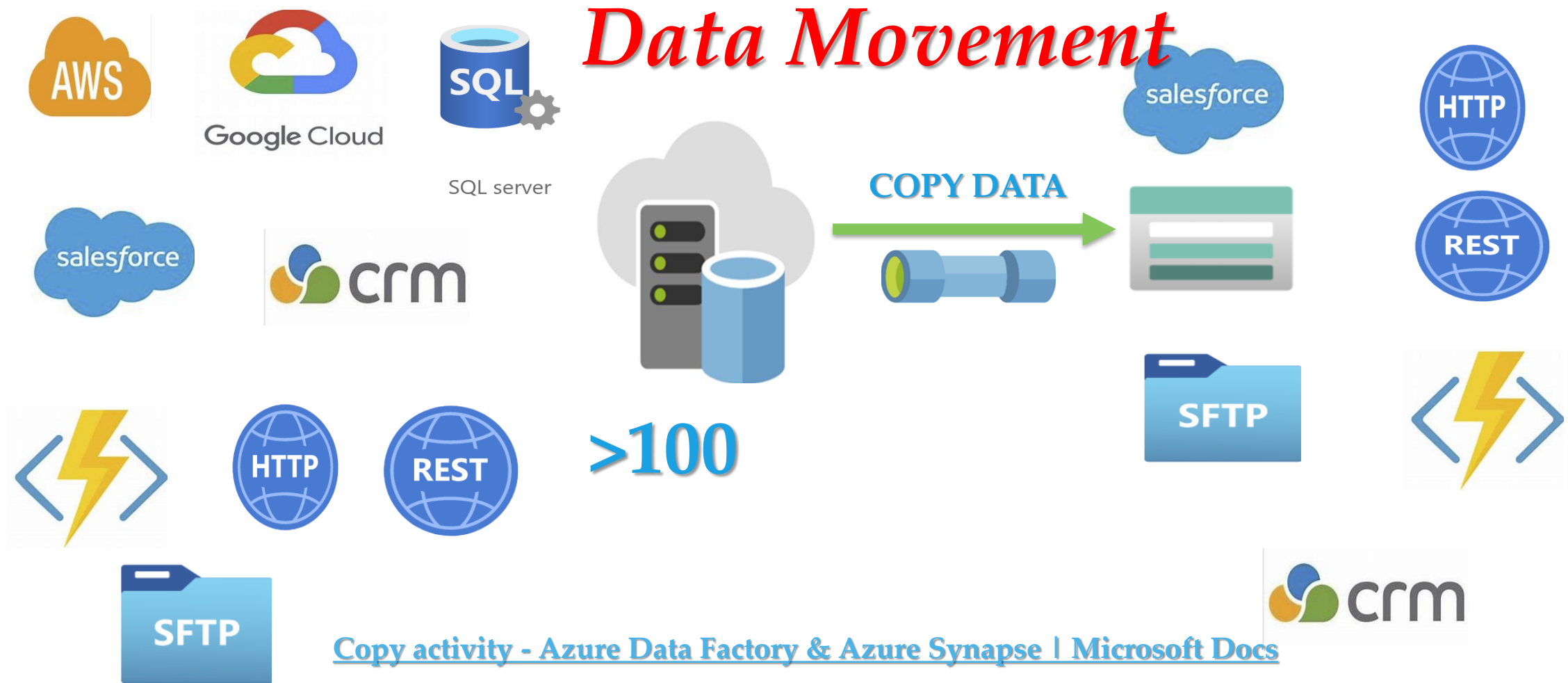
- ✓ **Azure PaaS Service**
- ✓ **It is Serverless**
- ✓ **Only pay for what you have use**
- ✓ **Low-code and no-code Solutions**

What are Key Components of ADF?

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

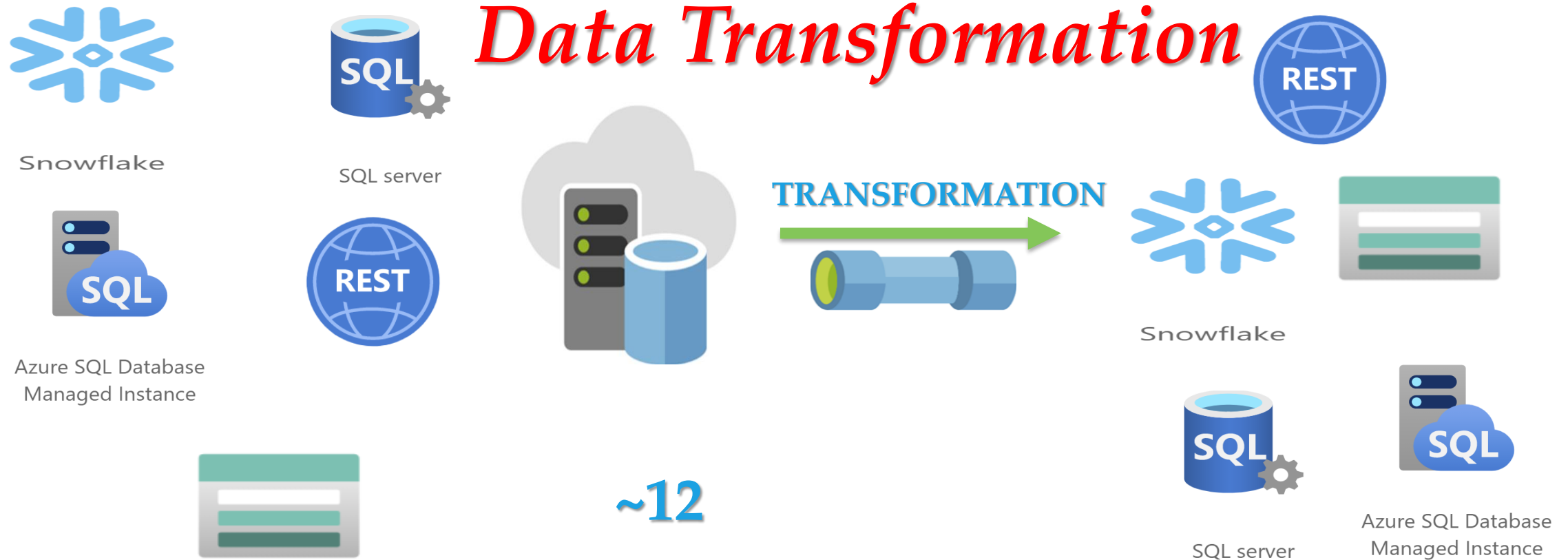


What can you do in ADF?





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**
- ✓ **Git Integration built in**
- ✓ **Monitor**
- ✓ **Manage**

{ JSON }

 Azure DevOps Git

 GitHub





What can you do in ADF?

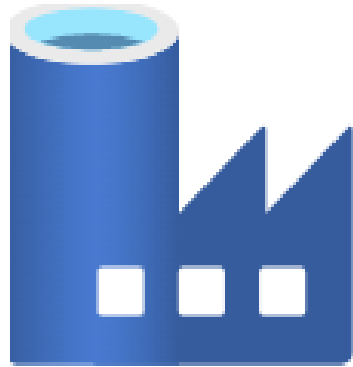
Trigger pipeline

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





DEMO



Lets have a Quick ADF Tour!!!



What is Power BI?

- ✓ It is a collection of software services, apps, and connectors
- ✓ Data can be in
 - Excel spreadsheet
 - Collection of cloud-based
 - On-premises hybrid.
- ✓ Power BI lets you easily connect to your data sources, visualize and discover what's important, and share that with anyone or everyone you want.

[What is Power BI? - Power BI | Microsoft Docs](#)



Power BI Component

① Power BI Desktop

✓ **Window Desktop Application**

✓ **For use data sources to build models**

② Power BI Service

✓ **Create Reports (Pull Data, Apply Transformation, Generating new columns, Join them to form a data model)**

✓ **Build and managed content that can be shared**

③ Power BI mobile apps

✓ **It for Windows, iOS, and Android devices**

DEMO



Lets have a Quick Power BI Tour!!!



What is Azure Logic Apps?

It is a cloud-based platform for creating and running automated workflows that integrate your apps, data, services, and systems.

Few example:

- ✓ Schedule and send email notifications
- ✓ Move uploaded files from an SFTP or FTP server to Azure Storage



What is Azure Logic Apps?

- ✓ It provides a cloud based serverless engine (It fully managed by Microsoft which frees you from worrying about hosting, Scaling, Managing, Monitoring, and Maintaining solution)
- ✓ Pay for what it has used for
- ✓ No code or Low code Solution
- ✓ 200+ connectors for expansion
- ✓ Create your Custom connectors

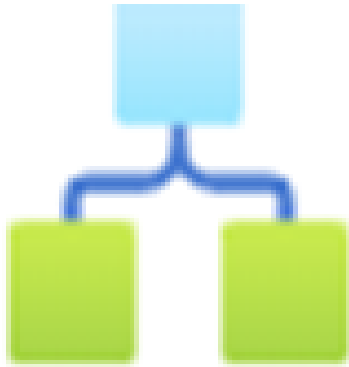


What is Azure Logic Apps?

- ✓ Monitoring and Logging out of the box
- ✓ Seamless integration with other Azure Services (Azure Function, ADF...)
- ✓ Provides scalability & security

<https://docs.microsoft.com/en-us/azure/logic-apps/quickstart-create-first-logic-app-workflow>

DEMO



Azure Logic Apps Quick Tour!!

DEMO



*Refresh Power BI Dataset using ADF
Pipeline & Azure Logic Apps*

Tools

1. Azure Data Factory & Azure Logic Apps

Azure Subscription

✓ [Create your Azure free account today | Microsoft Azure](#)

2. Power BI Desktop

✓ [powerbi.microsoft.com](#)

✓ Windows OS Power BI Service

3. Power BI Service

✓ [App.powerbi.com](#)

✓ Available with a free license

✓ Pro license only required for some more advanced scenarios

Conclusion

1. Quick Overview of Azure Data Factory
2. Key Component of Azure Data Factory
3. Azure Data Factory Quick Tour!!!
4. Power BI Overview
5. Power BI Quick Tour!!!
6. Azure Logic Apps Overview
7. Azure Logic Apps Tour!!!
8. Refresh Power BI dataset

Thank you !!!



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Questions !!!



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