

Metadata-Driven Approach in ADF / Synapse

15.02.2023

Microsoft Partner

Microsoft

Gold Data Platform Gold Datacenter Gold Cloud Platform Gold Cloud Productivity **Gold Application Development**

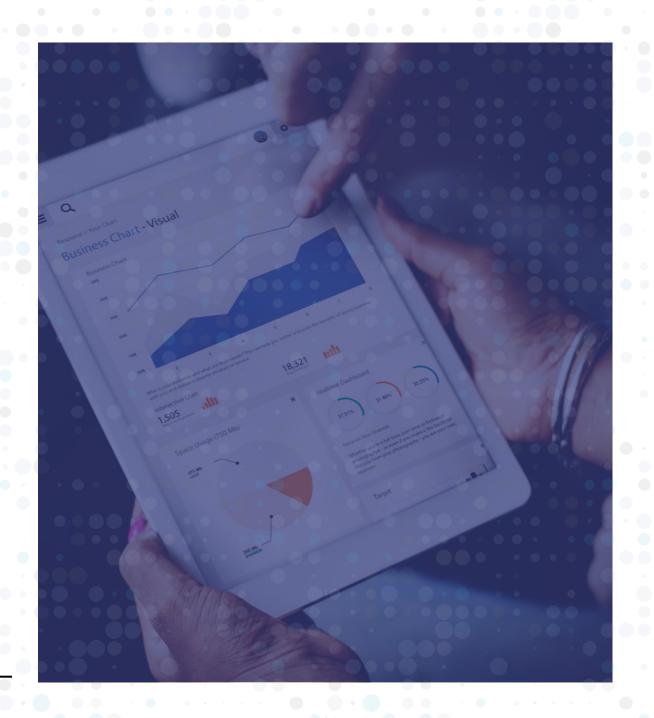
Gold Data Analytics





Agenda

- Introduction
- Metadata-Driven Pipelines
- Demo-Case "Adventure Works"
- Conclusion



Introduction

Who the hell is talking to me?

Robin Hübner Data & Analytics Consultant





- Education
 - Business & Engineering
 - Business Administration



- Work Experience
 - E-Commerce
 - Data & Analytics



- Favorite Tools
 - Synapse / ADF
 - Power Bl
 - Azure SQL

Who is this great employee OBUNGI?



Experts for:

Cloud based Data, Analytics & AI solutions



Location:

In Hamburg, Germany, City Center



Team:

More then 40 software developer und BI consultants



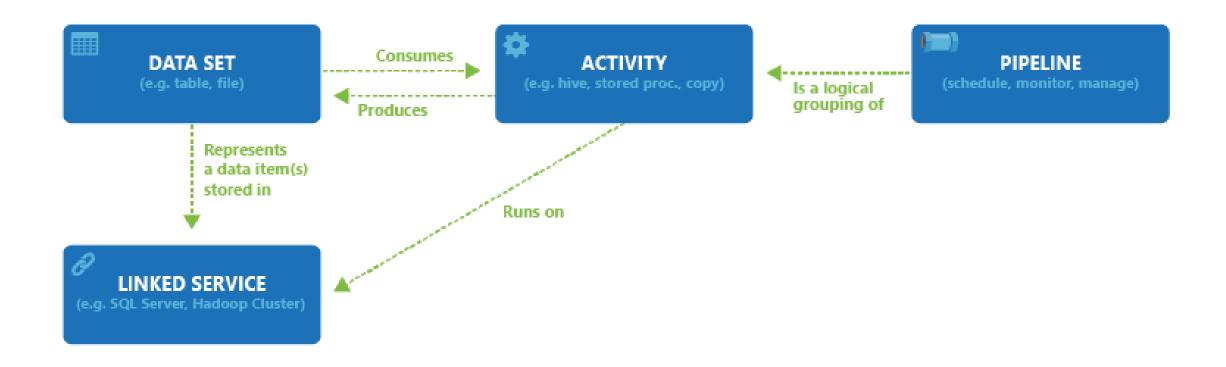
Deep Dive in:

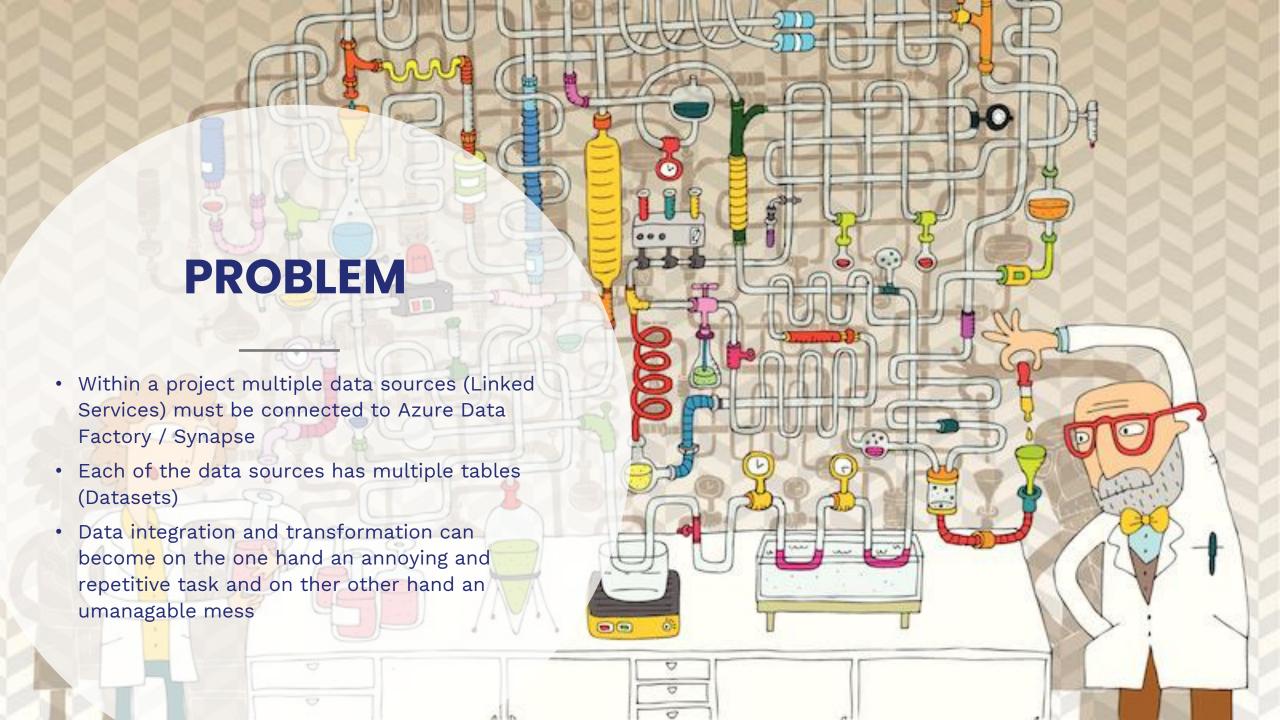
- Banking & insurances
- Energy supplier
- wholesale & consumer goods
- Transportation & logistics

2.

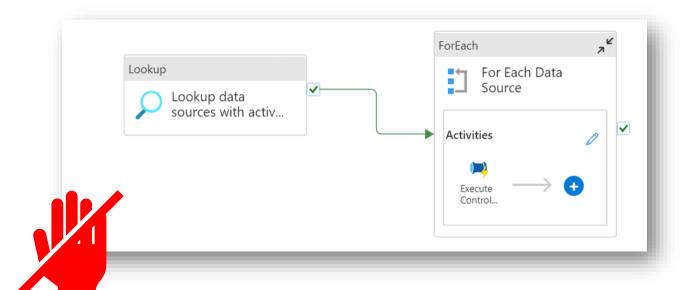
Metadata-Driven Pipelines

Azure Data Factory Structure





Metadata-Driven Pipelines (Concept)



```
SELECT TOP (1000) [Id]

,[DataSourceName]
,[LinkedServiceName]
,[SourceSchemaName]
,[SourceTableName]
,[SinkFileDirectoryName]
,[SourceQueryDefinition]
,[LoadBatchGroup]
,[IsActive]

FROM [ctrl].[SourceToBronze]
```

Individual Solution vs. ADF Integrated Solution



- No conceptual work is required
- SQL code for metadata-database is automatically generated (table and data)
- Pipeline and Datasets in ADF are created and configured automatically

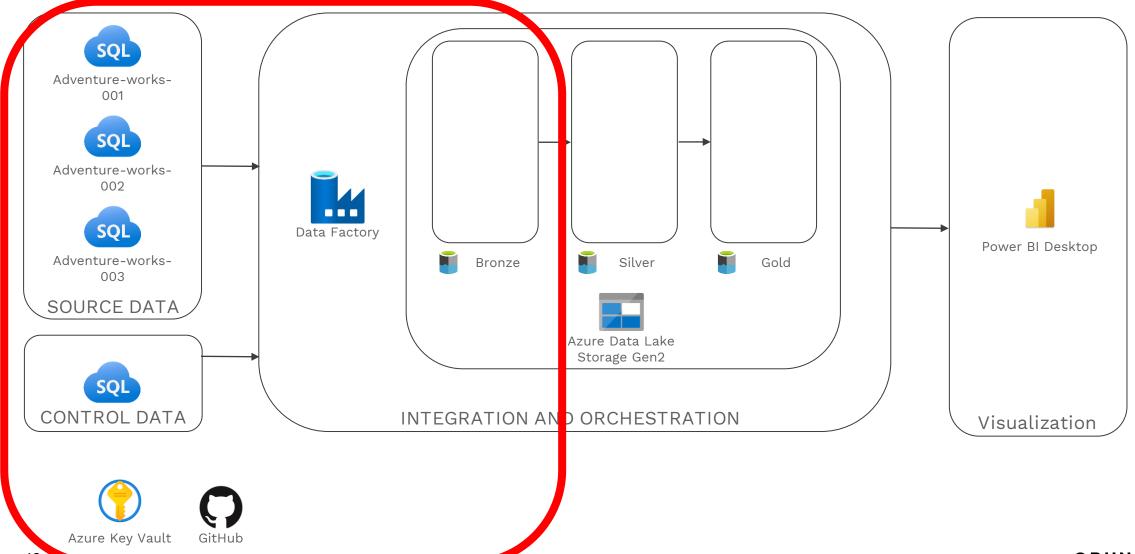


- A concept must be elaborated
- SQL code for metadata-database must be created manually
- Pipelines and Datasets in ADF must be created and configured manually

3.

Demo-Case "Adventure Works"

Architecture of the Demo Case



4.

Conclusion

Conclusion

- Metadata-driven pipelines are a must have in an ADF analytics solution
- Build-in metadata-driven pipelines are a good starting point
- Self-created and defined concepts are a powerful tool to build up large and scalable solutions in an easy manageable way



Let's keep in touch & thank you for the attention



www.linkedin.com/in/robinhuebner