



# KevOps for analytics solutions within the Microsoft Intelligent Data Platform

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Mainzer Datenfabrik



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# Agenda

- Bio
- Intro to Azure DevOps
- Microsoft Intelligent Data Platform overview
- Native Git integration for various services
- Ways to perform CI/CD for various services
  - Database projects
- Yes, the session includes Microsoft Fabric

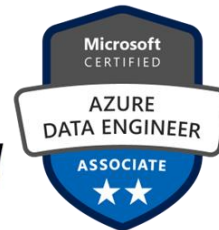


## Kevin Chant

- Data Engineering Manager in the Netherlands
- Worked in IT since Windows 95
- Experience in various sectors
- Various certifications, dual-category MVP

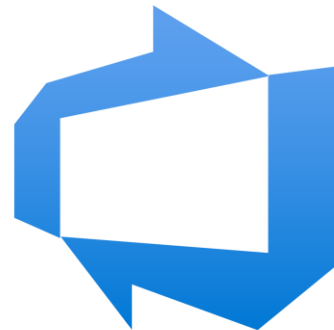


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- GitHub: <https://github.com/kevchant>



## Azure DevOps

- Manages Application Lifecycle Management
- Collection of services
- Two main versions



# Microsoft Intelligent Data Platform

- Announced at Build 2022
- Collection of database, analytics and governance services
- Website demo

# Analytics Services that contain native Git integration

- Azure Databricks
- Azure Synapse Analytics
- Microsoft Fabric (Azure DevOps only)



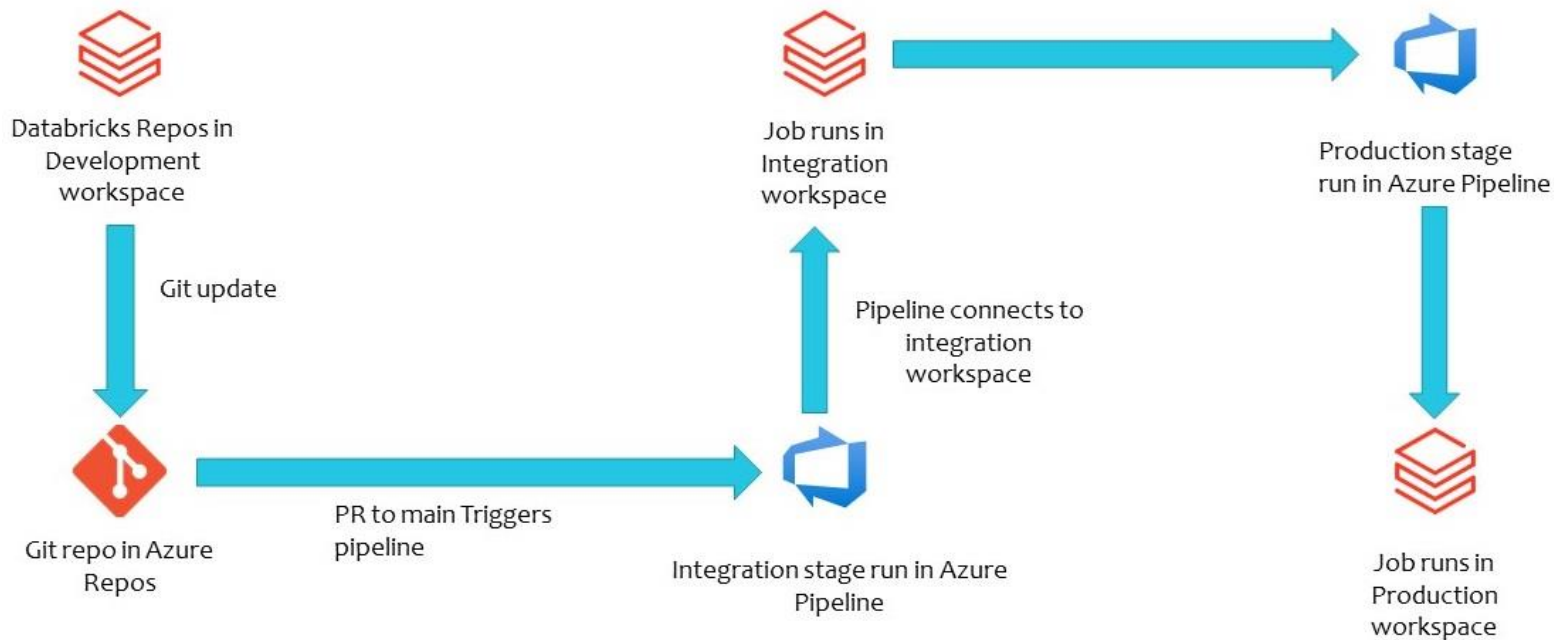
# Performing CI/CD for Azure Databricks

- Two main methods:
- Copy repository across workspaces
- Create a whl file to be deployed

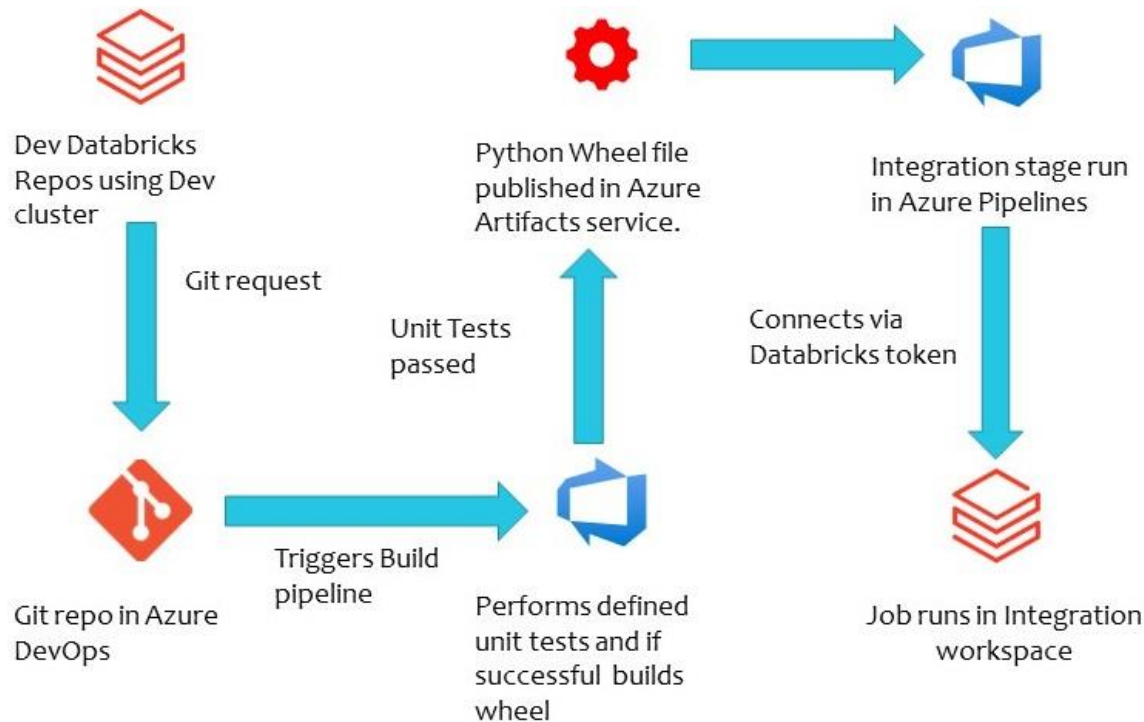




# Copy repository method



## Create a whl file method



# Performing CI/CD for Azure Synapse Analytics

- Git integration for workspace similar to ADF
- Excludes Analytics Pools (SQL & Spark)
- For SQL Pools can use Database Projects



# CI/CD using Database Projects

- SQL Family (Server, Azure DB, etc)
- Dedicated SQL Pools
- Serverless SQL Pools (with limitations)
- Microsoft Fabric Data Warehouse - Demo



## CI/CD using DBUp

- SQL Family (Server, Azure DB, etc)
- Dedicated SQL Pools
- Serverless SQL Pools



## Microsoft Fabric Git integration

- Allows synchronize supported items with a Git repository.
- Supports Azure DevOps repositories
- Requires Fabric or Power BI premium license

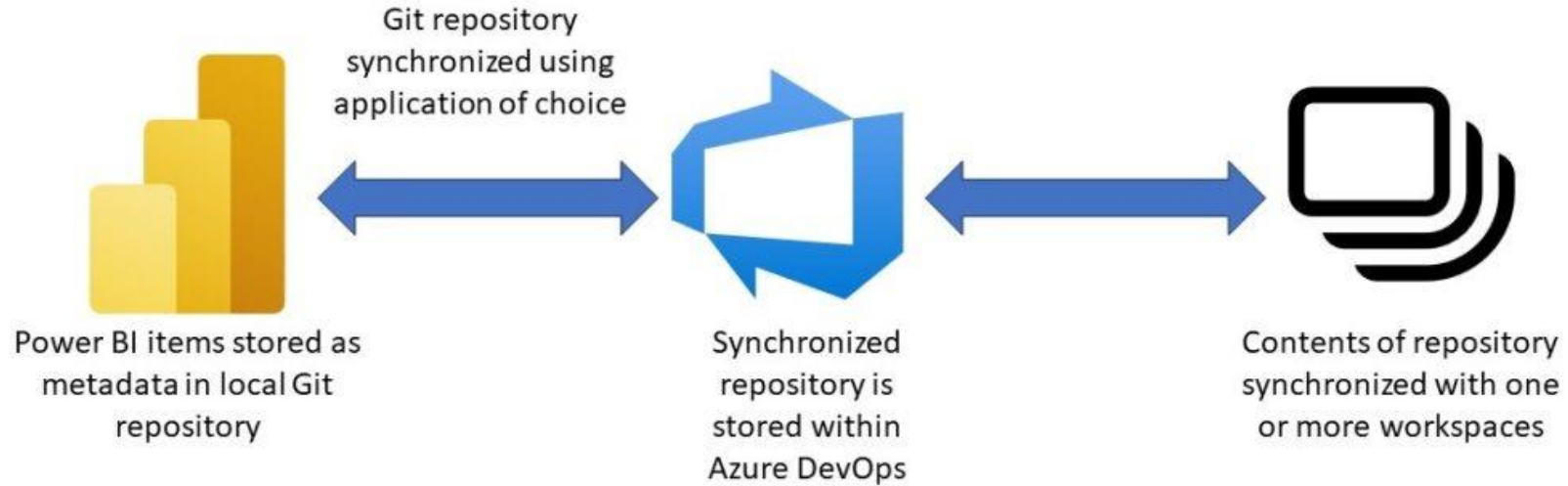


# Working with Power BI Projects

- Power BI Projects in Preview
- Stores metadata in various files
- Can be used with Microsoft Fabric Git integration
- Multiple workspaces demo alert



# Using Power BI projects and Microsoft Fabric Git integration together





# Deployment pipelines



# Questions



## Feedback



<https://sqlkonferenzeval.azurewebsites.net/227042630095293>



# Thank you

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Thank you very much for your attention.  
Vielen Dank für Eure Aufmerksamkeit.