

# Practical Azure DevOps for Data Platform Professionals

Kevin Chant & Sander Stad





# 16 edycja konferencji SQLDay

13-15 maja 2024, WROCŁAW + ONLINE



partner platynowy



partner złoty



partner srebrny

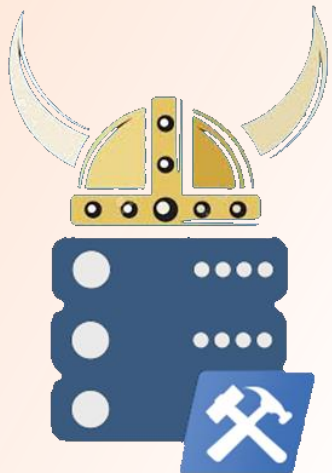


# For the next 60 minutes...





# Sander Stad



@sqlstad



sqlstad.nl



sander@sqlstad.nl



github.com/sanderstad



# Kevin Chant



- Data Engineering Manager in the Netherlands
  - Worked in IT since Windows 95
  - Experience in various sectors
  - Various certifications, dual-category MVP
- 
- Twitter/bluesky: @kevchant
  - LI: <https://www.linkedin.com/in/kevin-chant/>
  - Blog: <https://www.KevinRChant.com>
  - GitHub: <https://github.com/kevchant>



# Practical Azure DevOps introduction



# Azure Boards



# Track work items in Power BI



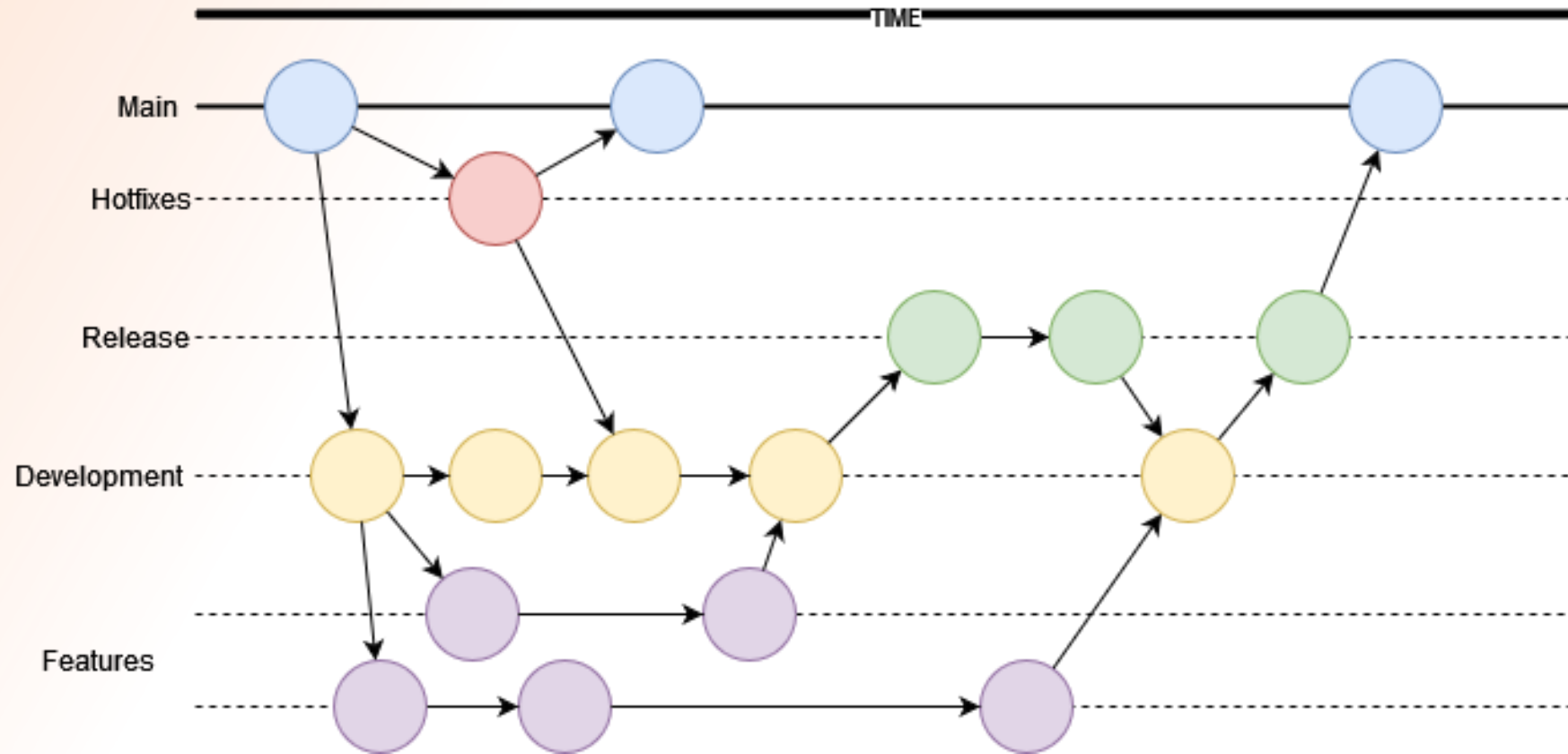


# Azure Repos



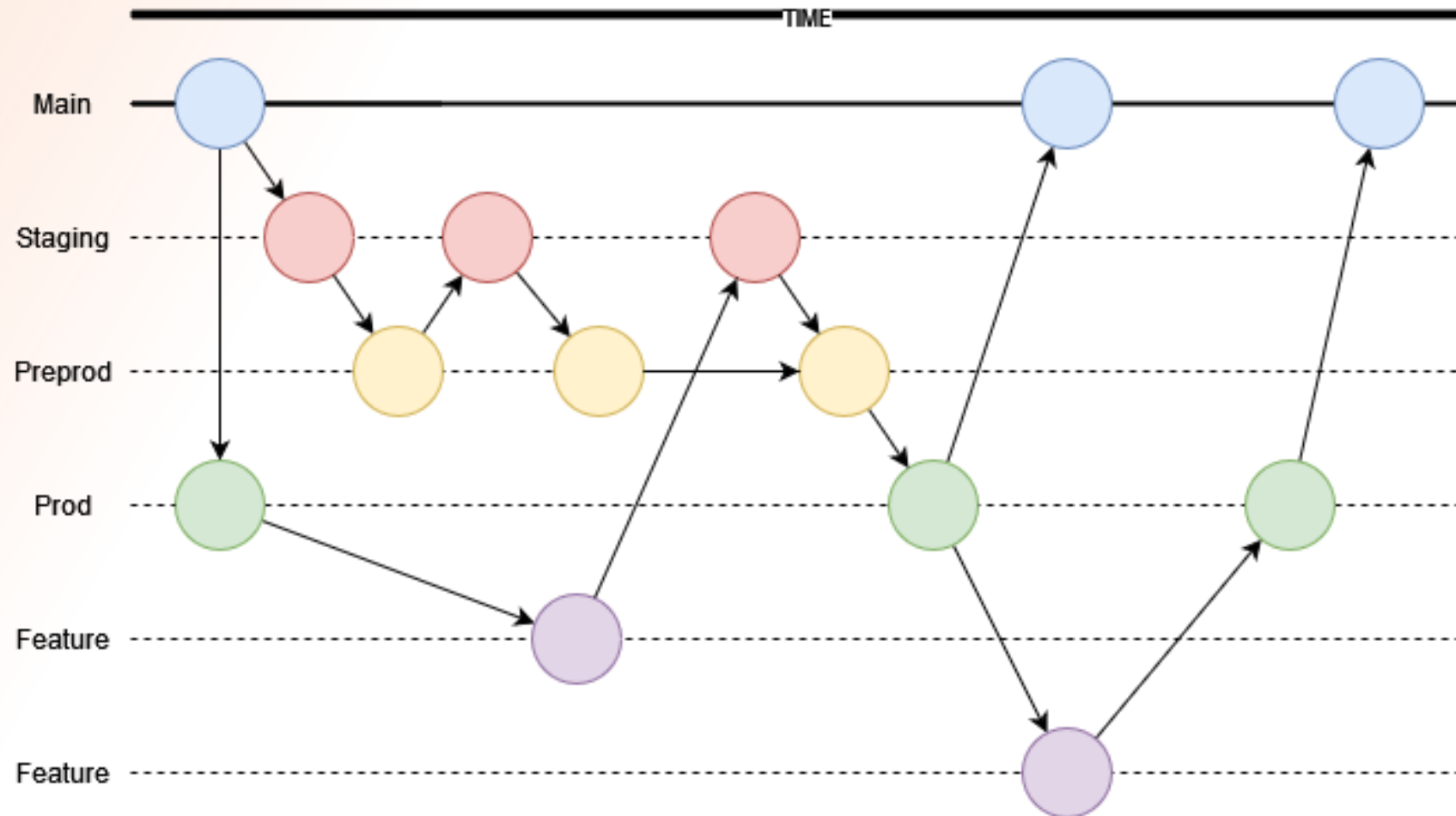
# Branch models

## Git Flow



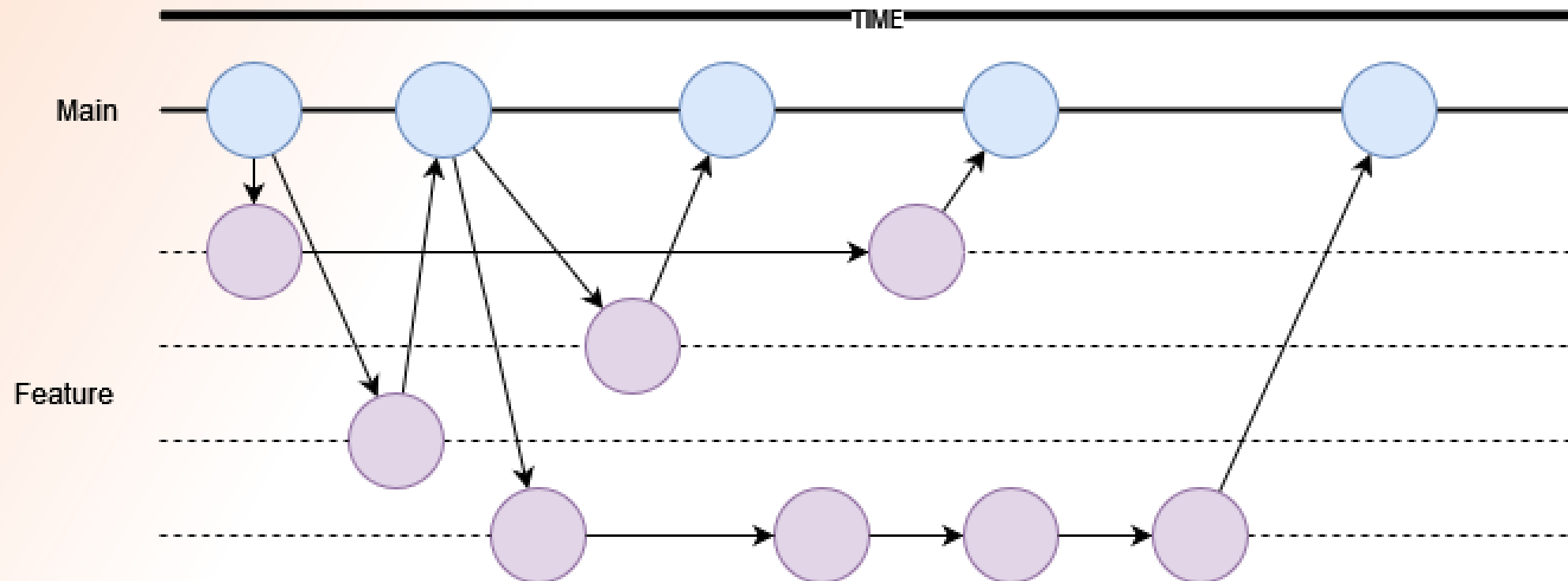
# Branch models

## Gitlab Flow



# Branch models

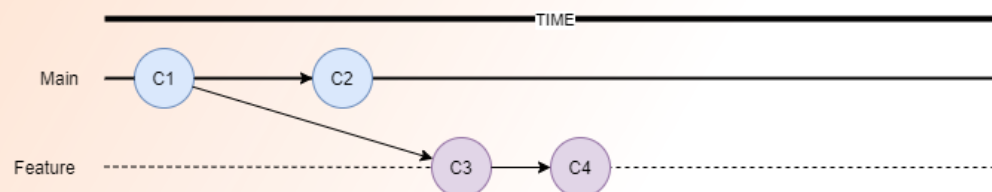
## Trunk-based Development (GitHub Flow, Microsoft Release Flow)



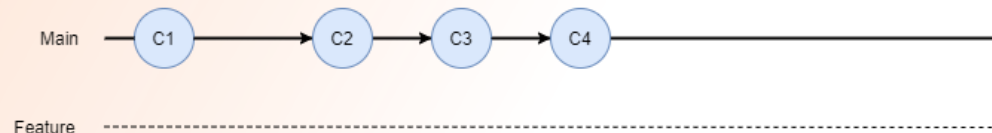
# Branch strategies

## Rebase

Before rebase

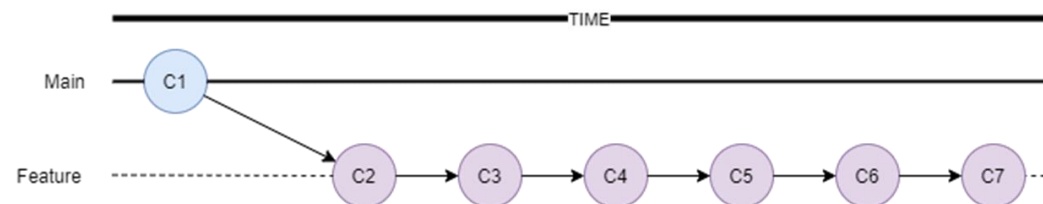


After rebase

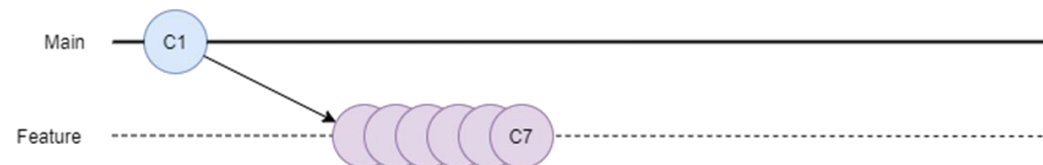


## Squash

Before squash



During squash



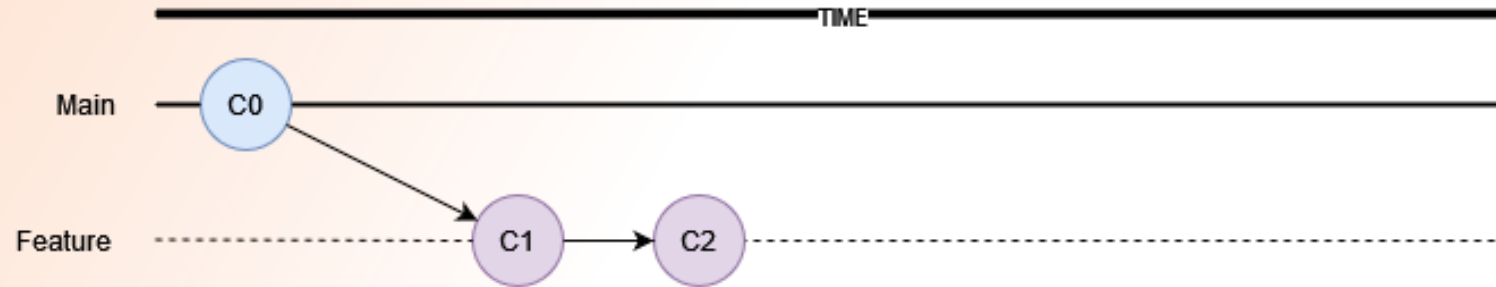
After squash



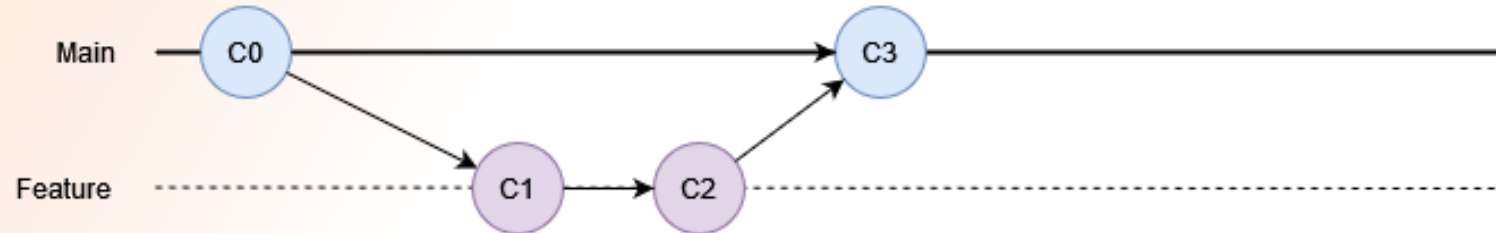
# Branch strategies Merge (fast forward and no fast forward)



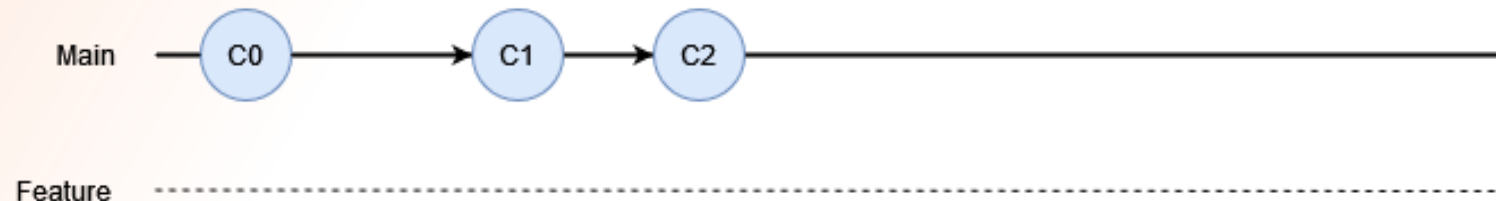
Before merge



After merge no fast forward



After merge fast forward



# Azure Pipelines



# List of Data Platform examples

- Azure services
- Database Projects
  - SQL Server, Azure Synapse SQL Pools, Fabric Data Warehouses
- Azure Data Factory & Azure Synapse pipelines
- Azure Synapse Workspaces
- Azure Databricks notebooks
- Microsoft Fabric
  - Git integration, Power BI Projects



# Azure Services example

## Development Resource Group



Azure Analysis  
Services



Azure Cosmos DB

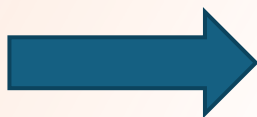


Azure Data Lake  
Storage



Azure Synapse  
Analytics

Deployed  
automatically



## Integration Resource Group



Azure Analysis  
Services



Azure Cosmos DB



Azure Data Lake  
Storage



Azure Synapse  
Analytics

Deployed  
automatically



## UAT Resource Group



Azure Analysis  
Services



Azure Cosmos DB



Azure Data Lake  
Storage



Azure Synapse  
Analytics

Approval  
required



## Production Resource Group



Azure Analysis  
Services



Azure Cosmos DB

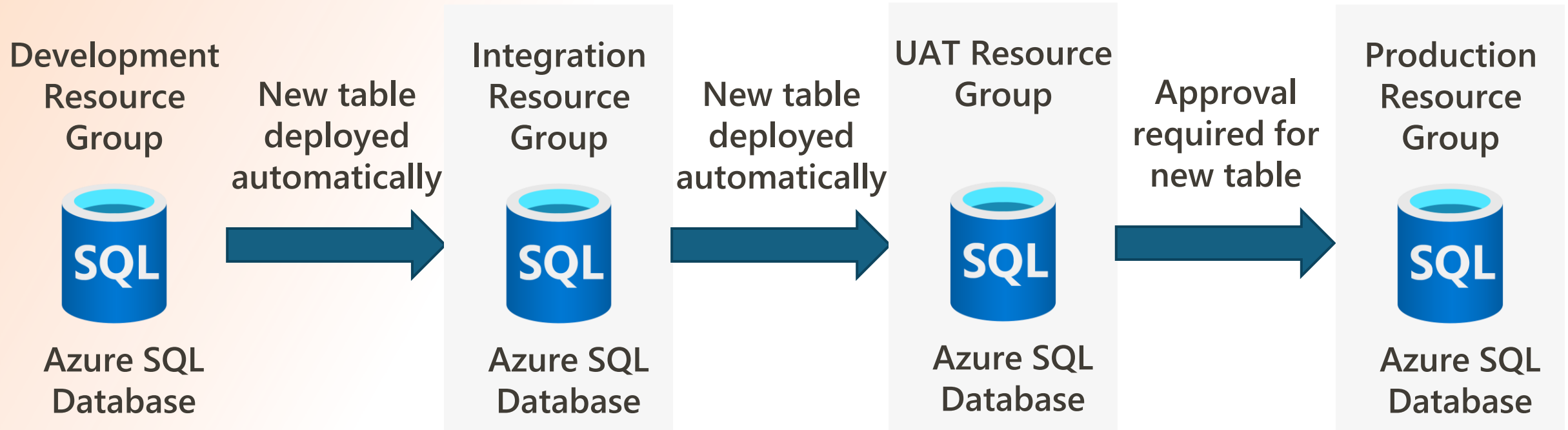


Azure Data Lake  
Storage

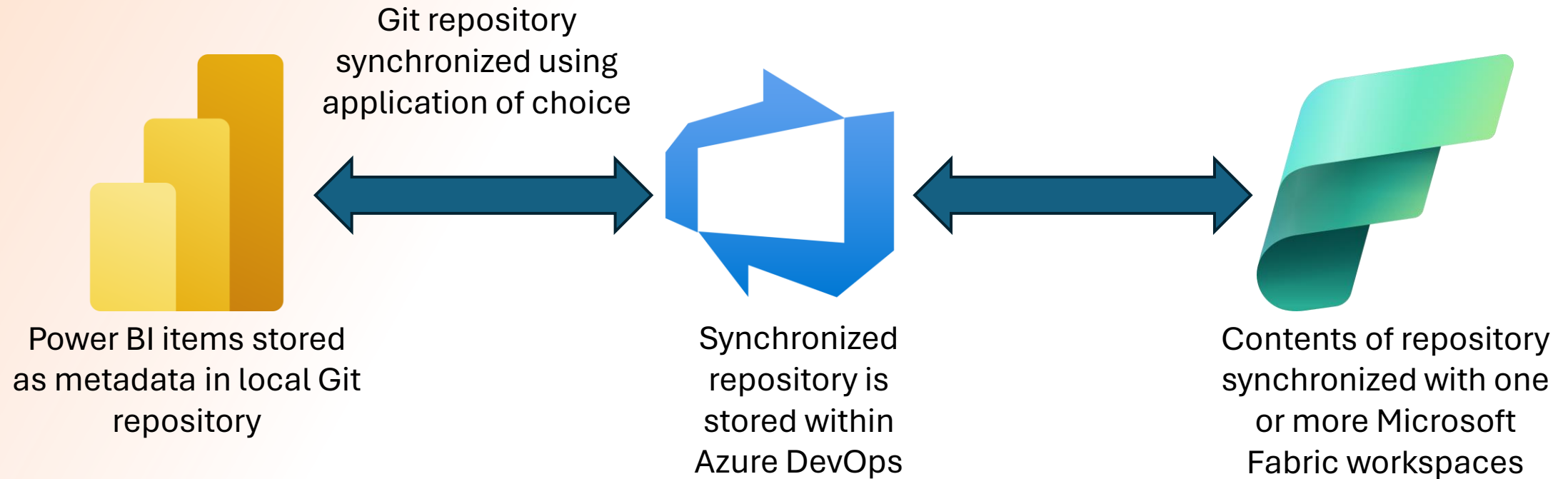


Azure Synapse  
Analytics

# SQL Server database example



# Microsoft Fabric example



# Demos



SQL database demos

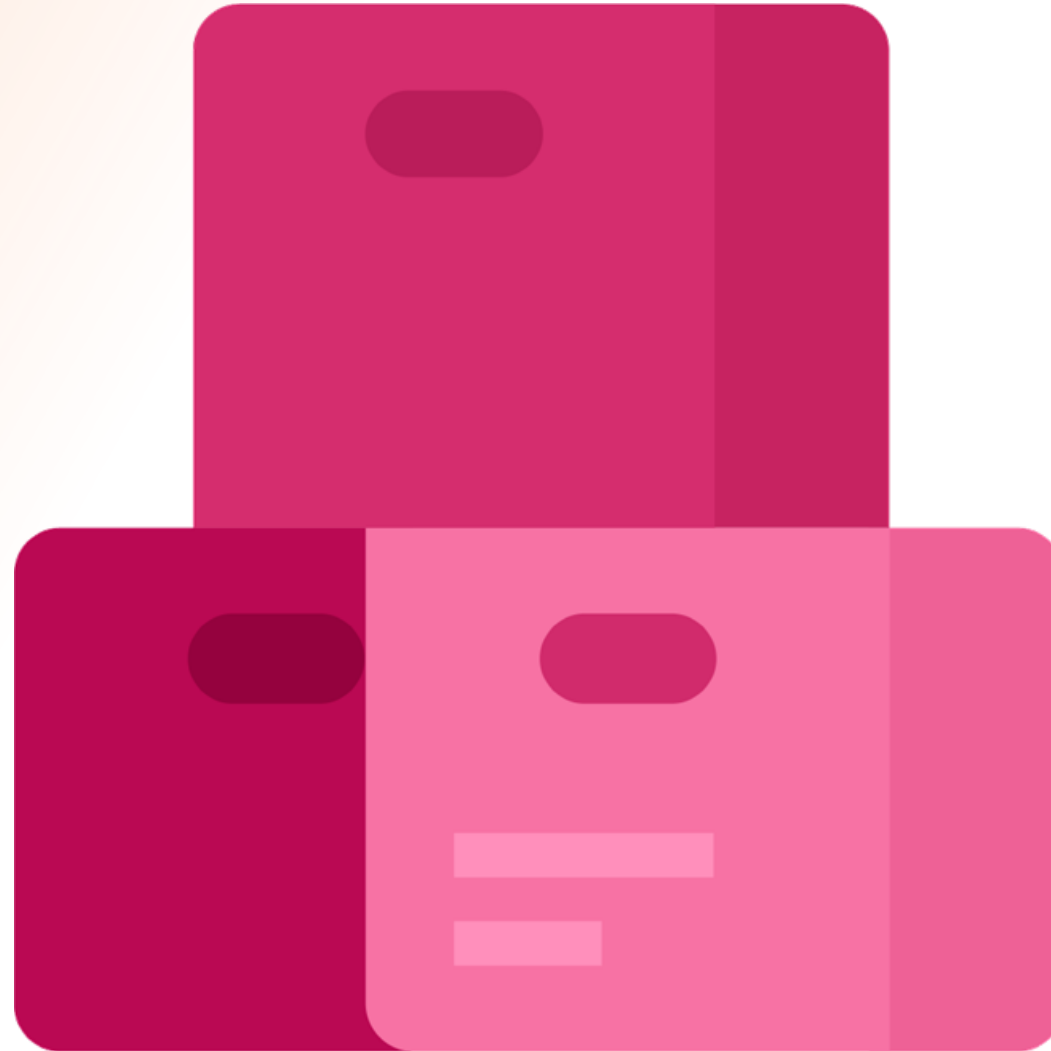


Fabric demo

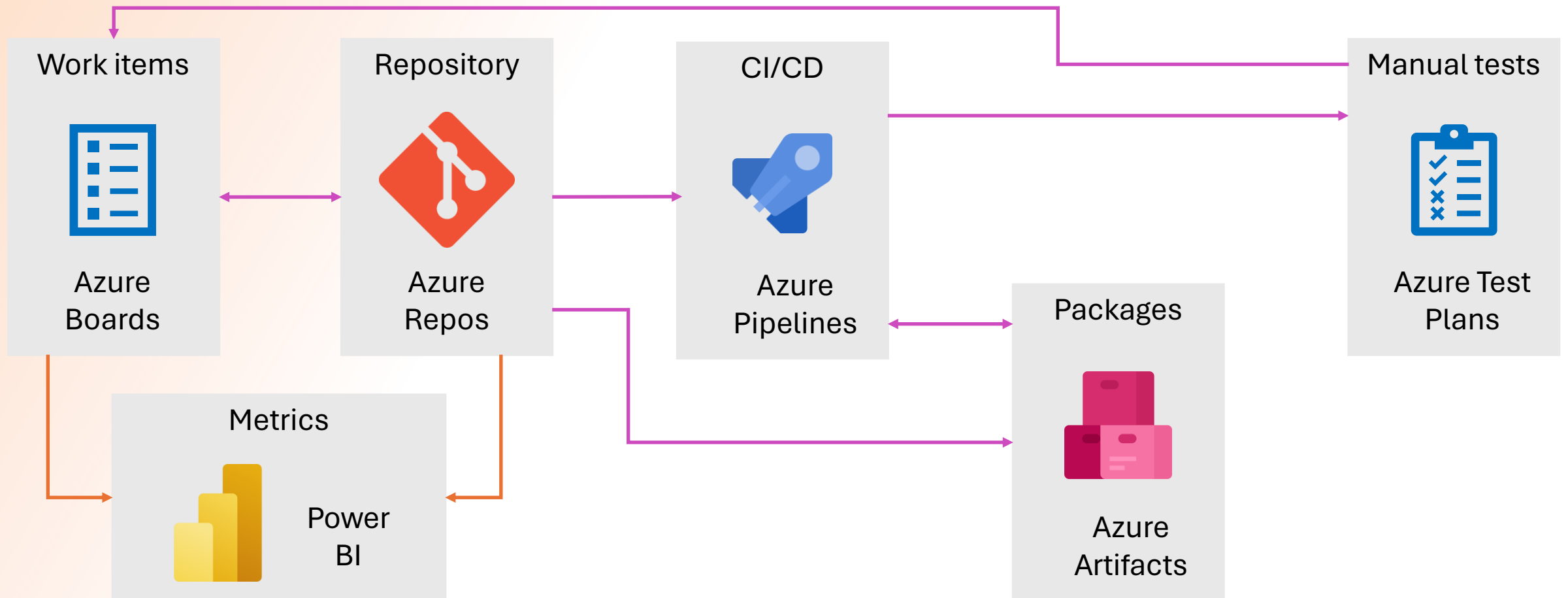
# Azure Test Plans



# Azure Artifacts



# To recap



# Questions?







# Thank You



Sander Stad



@sqlstad



Sqlstad.nl



sanderstad



Kevin Chant



@kevchant



KevinRChant.com



kevchant

