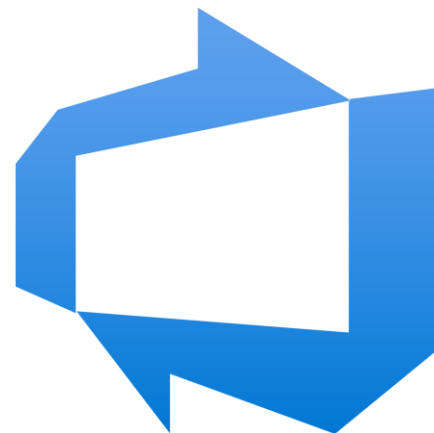


Prepare Azure DevOps for your Microsoft Fabric needs



Microsoft Fabric



Azure DevOps

Kevin Chant



Partners

Data Point Prague 2024



**Data
Brothers**



OKškolení
Powered by OKsystem



Tabular Editor

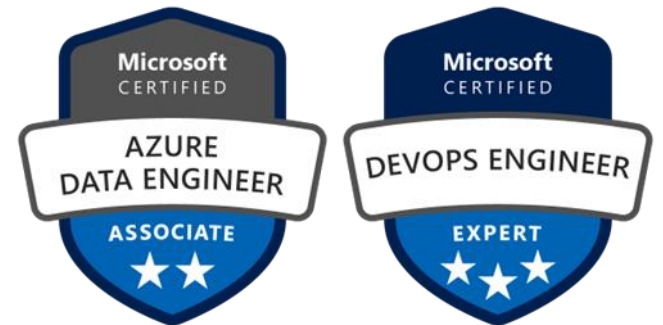


Agenda

- Bio
- Overview of Microsoft Fabric
- Intro to Azure DevOps
- Azure Repos
- Azure Pipelines
- Demos

Kevin Chant

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





Microsoft Fabric

Comp
analytics
platform

Lake
centric
and open

Empower
every
Business
user

AI Powered



Data
Factory



Synapse Data
Engineering



Synapse Data
Warehouse



Synapse Data
Science



Synapse Real
Time Intelligence



Power BI



Data Activator

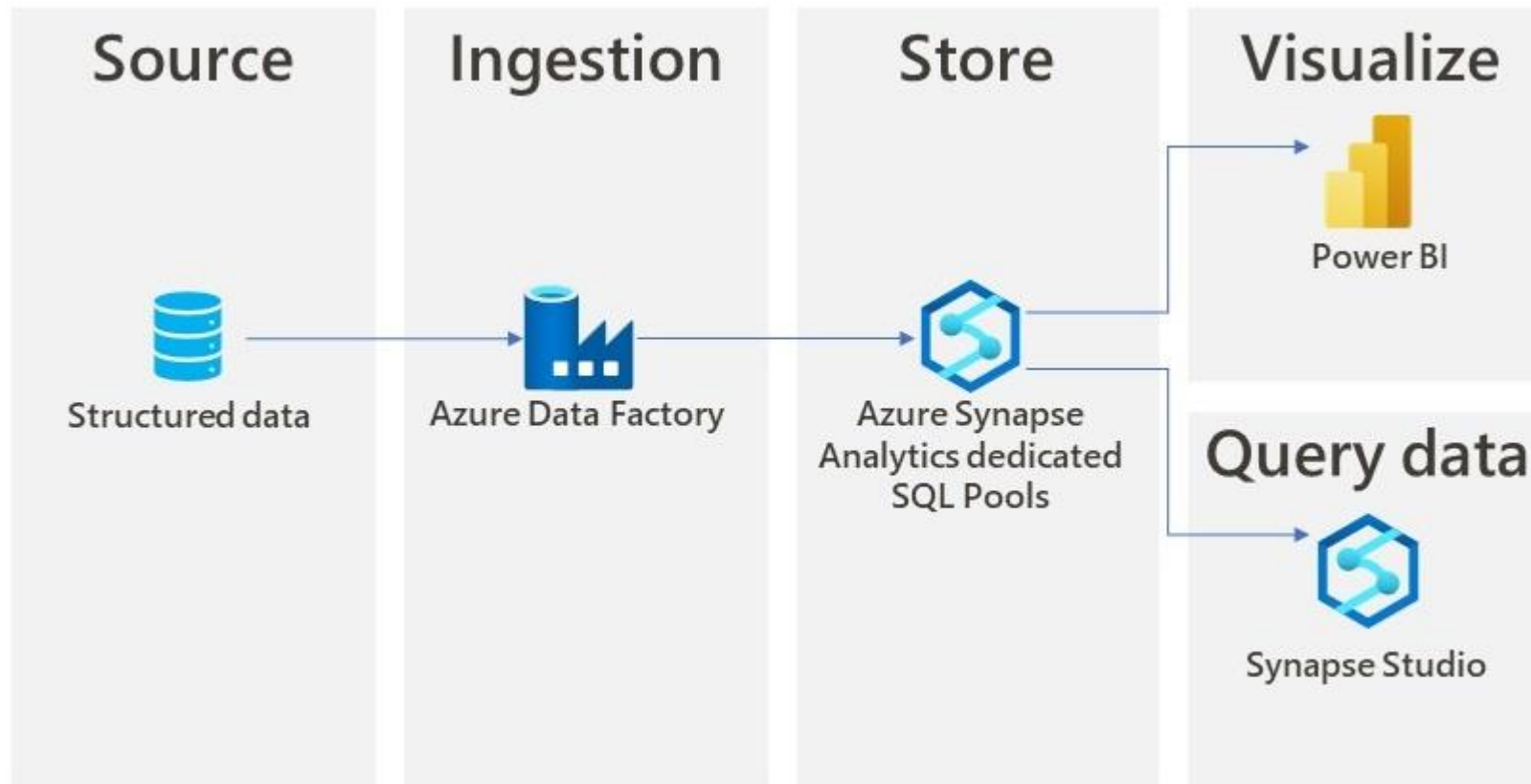


OneLake

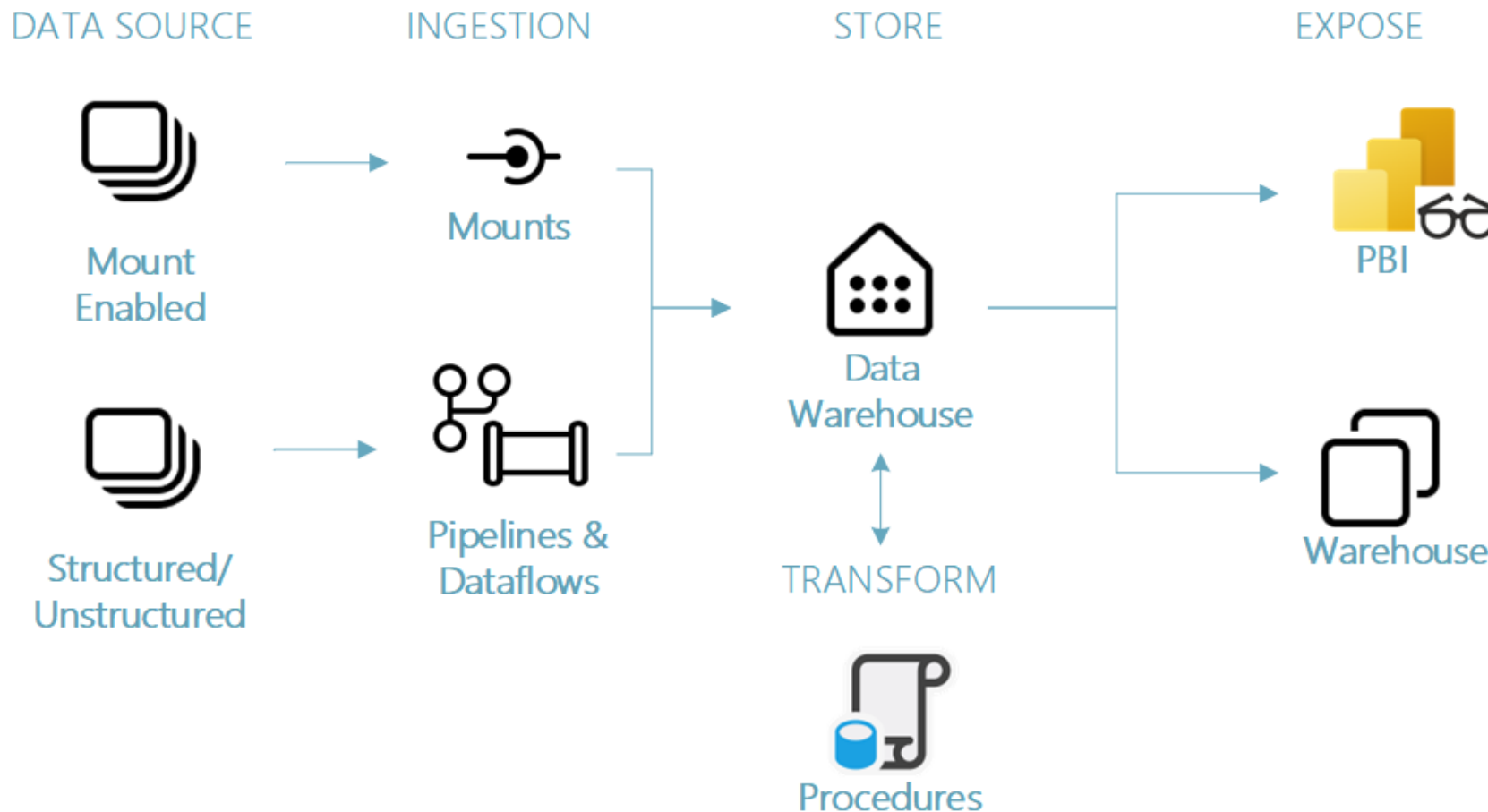
Other auxiliary services as well

- Purview integration
- Security (unified solution coming at some stage)
- Git integration

Integrating various services



Within Microsoft Fabric



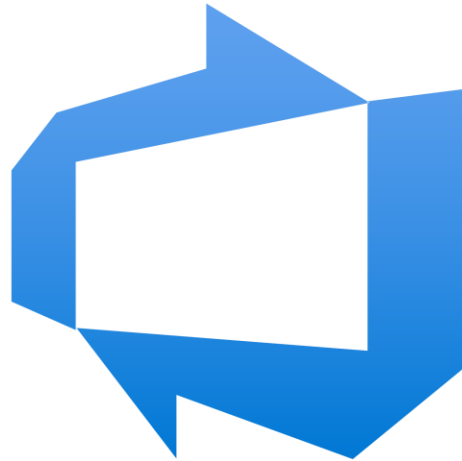
Fabric Demo



Azure DevOps

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

Azure DevOps intro



Azure DevOps organization advice

- Create own organization
- Billing
- Advanced Security
- Become familiar with essential settings

Azure DevOps Project advice

- Choose right process & source control
- Advantages to project Agent Pools
- Parallel jobs
- User-friendly name for service connections

Azure Repos



Working with Fabric items in Azure Repos

- Items supported by Git integration
- Power BI Projects synchronized
- Data Warehouse Database Projects
- Azure Pipelines

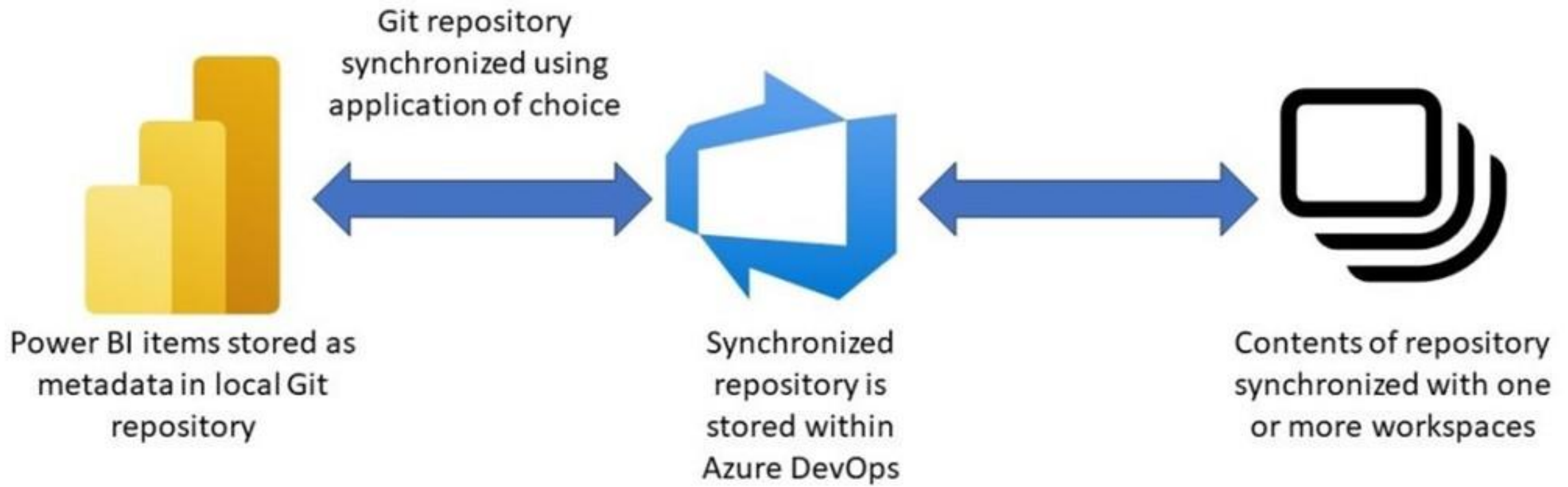
Azure Repos & Git Integration

- Microsoft Fabric Git integration supports Azure Repos
- Requires Fabric or Power BI premium license

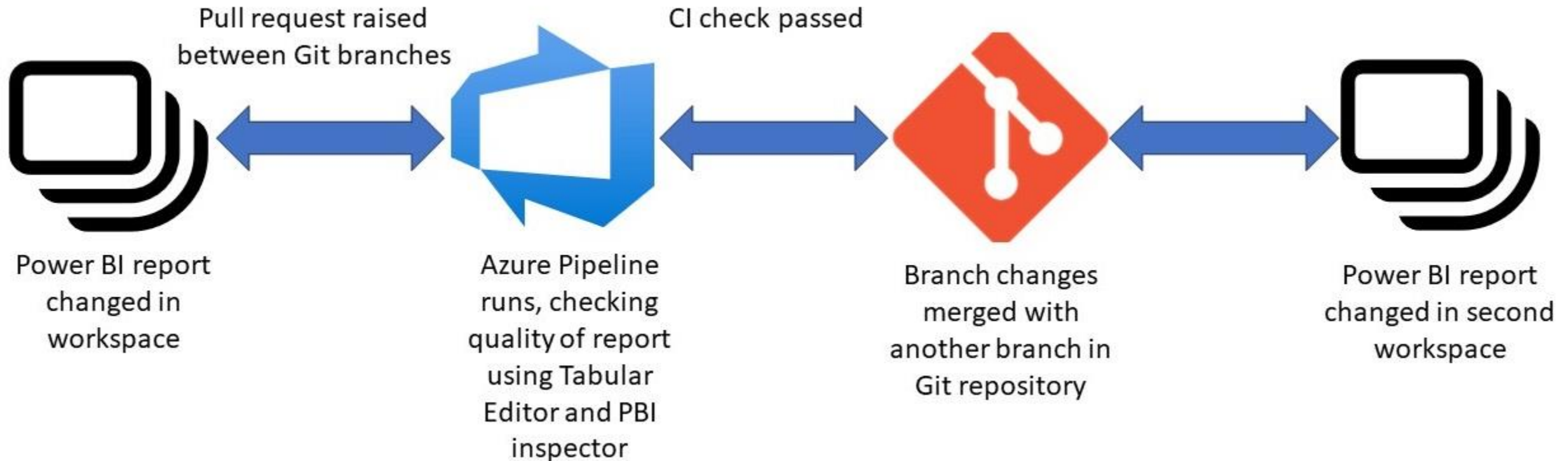
Working with Power BI projects

- Power BI Projects in Preview
- Stores metadata in various files
- Can be synchronized with Azure Repos for use with Microsoft Fabric Git integration

Using Git integration and Power BI Projects together






And then taking it a bit further...



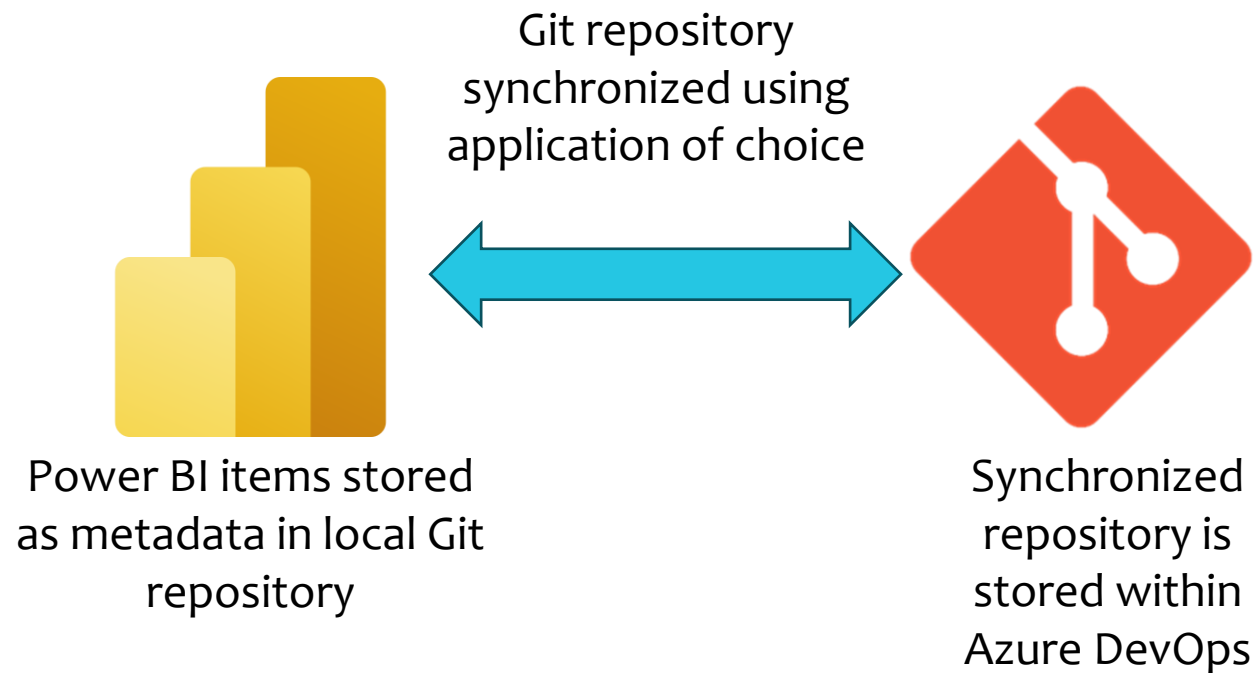
One other thing

- Direct Lake semantic models are currently not natively supported by Git integration

	Name	Git status	Type
	 DLTestDev	 Unsupported	Semantic model

- However, you can get them to work with Git integration by extracting the model using Tabular Editor beforehand.

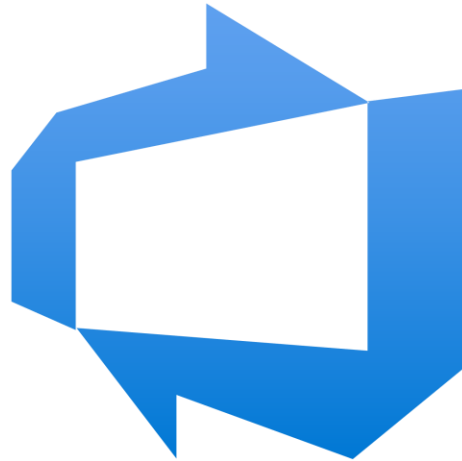
Power BI Project and Azure Repos demo



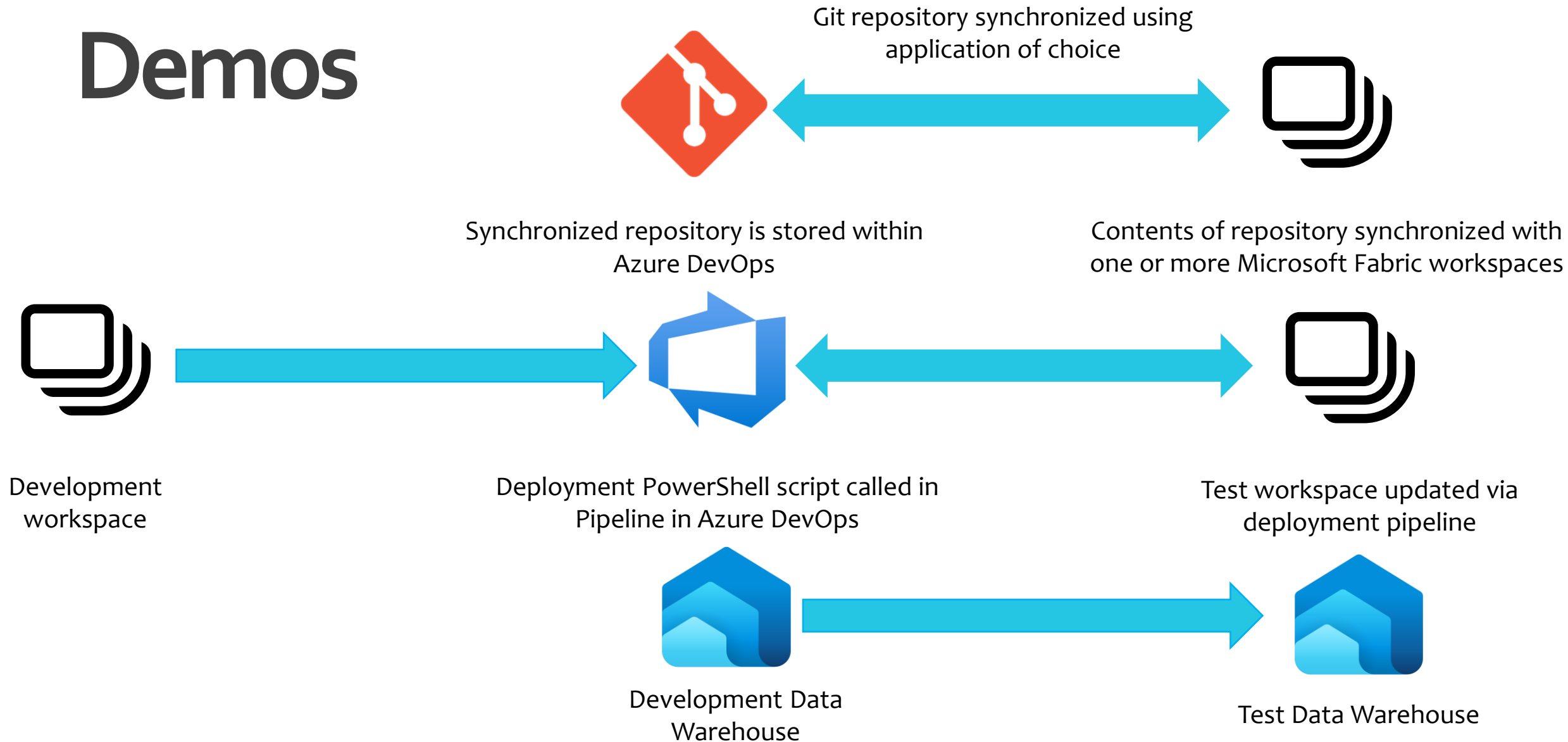
Azure Repos tips

- Branch models & strategies
- Branch policies & pull requests
- Advanced security
- Decide how to work with Git integration

Azure Pipelines



Demos



Pipeline considerations

- Agents
- Configure triggers appropriately
- Keep secrets secret (variables, Azure Key Vault)
- Manage approvals accordingly
- YAML or classic pipelines

WhyYAML?

- Closer to IaC
- Can perform pull requests
- Better for advance security scans
- More secure

Questions



Thank you



- Twitter/Bluesky: @kevchant
- LI: <https://www.linkedin.com/in/kevin-chant/>
- Blog: <https://www.KevinRChant.com>
- GitHub: <https://github.com/kevchant>