Navigate the analytics development lifecycle in Microsoft Fabric

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Microsoft Fabric

DATA:Scotland 2024

Tabular Editor

DATAmasterminds

ADVANCING ANALYTICS

Analytics development lifecycle

- Term coined by Microsoft.
- Describes various aspects relating to ALM.
- Was part of DP-500 exam, now relates to Microsoft Fabric.

Agenda

- Power BI Projects
- Git integration
- Deployment pipelines
- Lineage and impact analysis
- XMLA endpoint
- Reusable assets in relation to Power BI

Kevin Chant

- Data Engineering Manager in the Netherlands
- Worked in IT since the days of Windows 95
- Experience in various sectors
- Various certifications, Data Platform MVP

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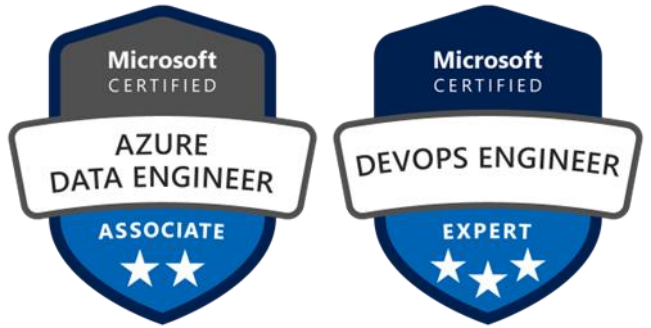
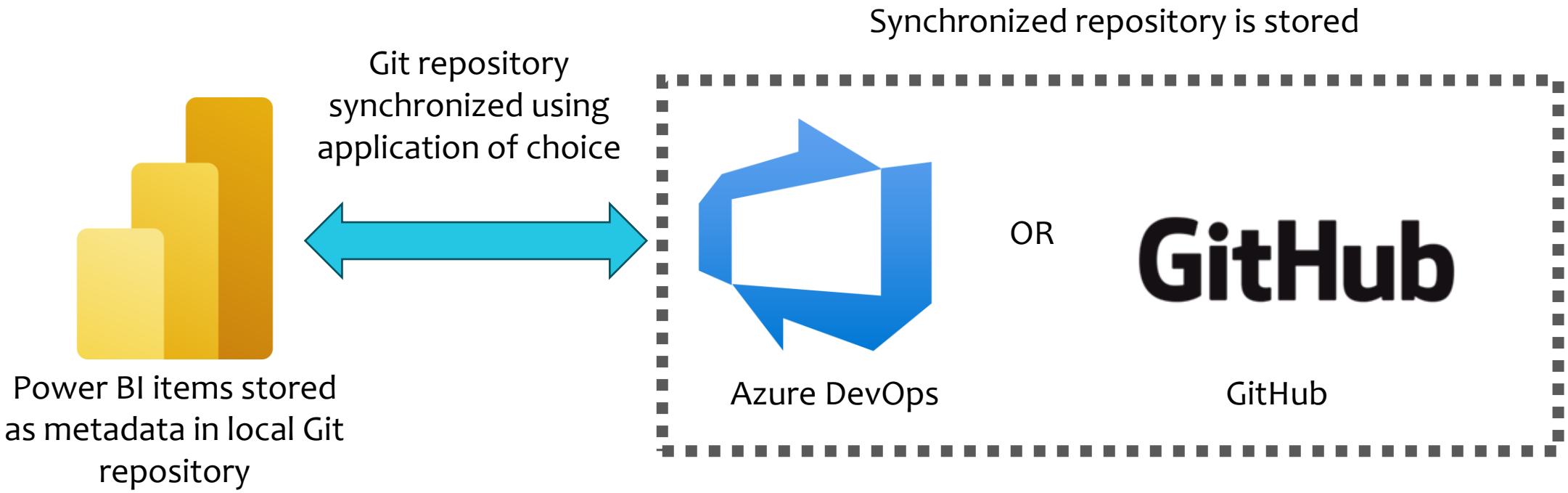


Power BI Projects

- Allows you to store metadata.
- Now supports TMDL and PBIR.
  - Tabular Model Definition Language
  - Power BI Enhanced Report Format
- Can store in version control.

Power BI Projects diagram

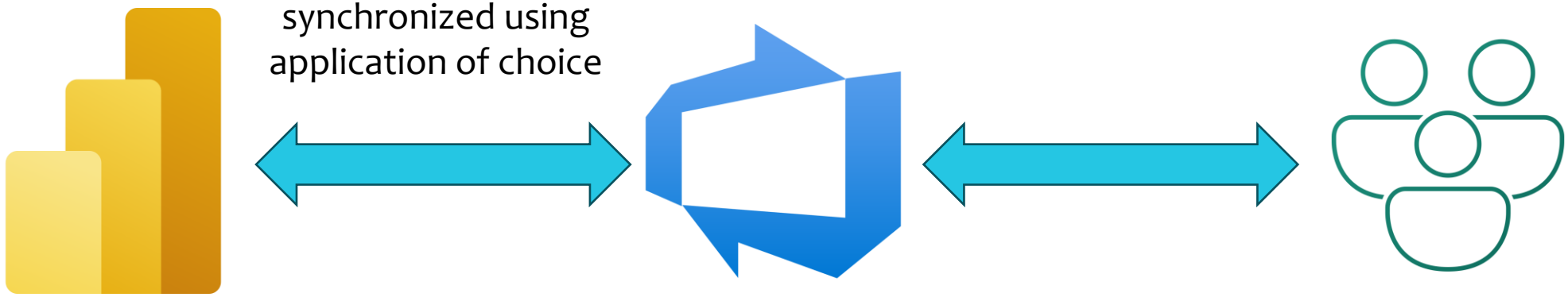


Power BI Desktop Projects Demo

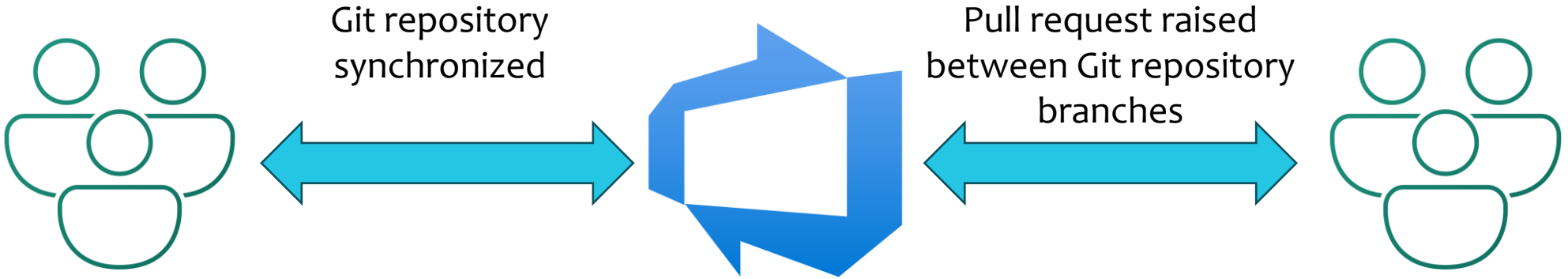
Microsoft Fabric Git integration

- Allows you to link workspace to a Git repository in Azure DevOps or GitHub.
- Supports various Fabric items at various level.
- Has additional functionality.
- Some interesting possibilities.

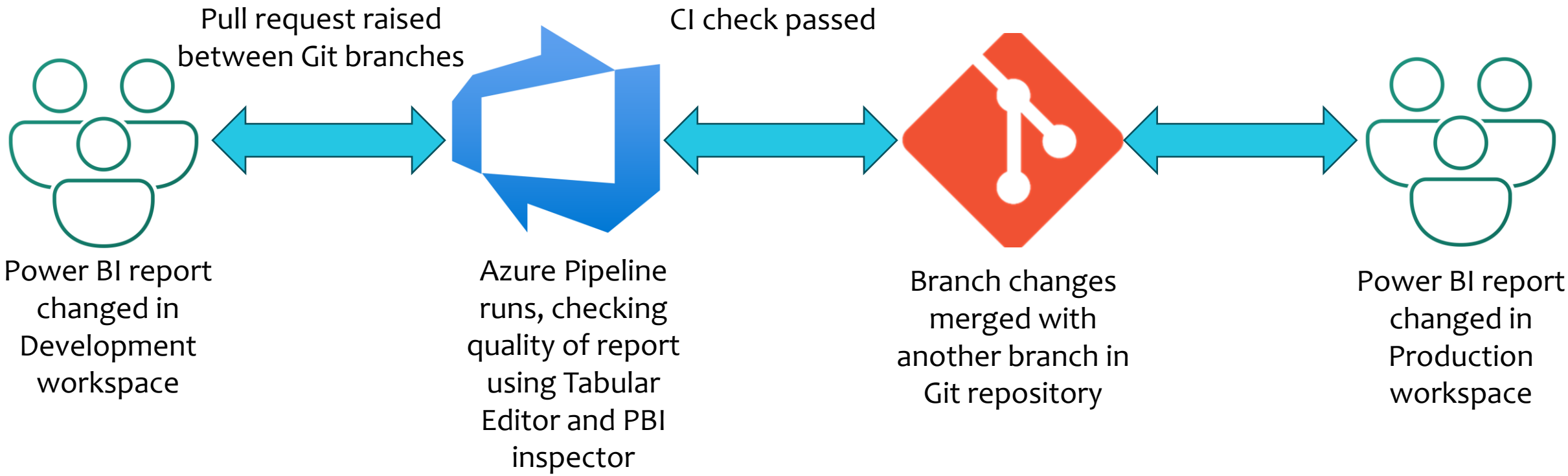
Working with Power BI Projects



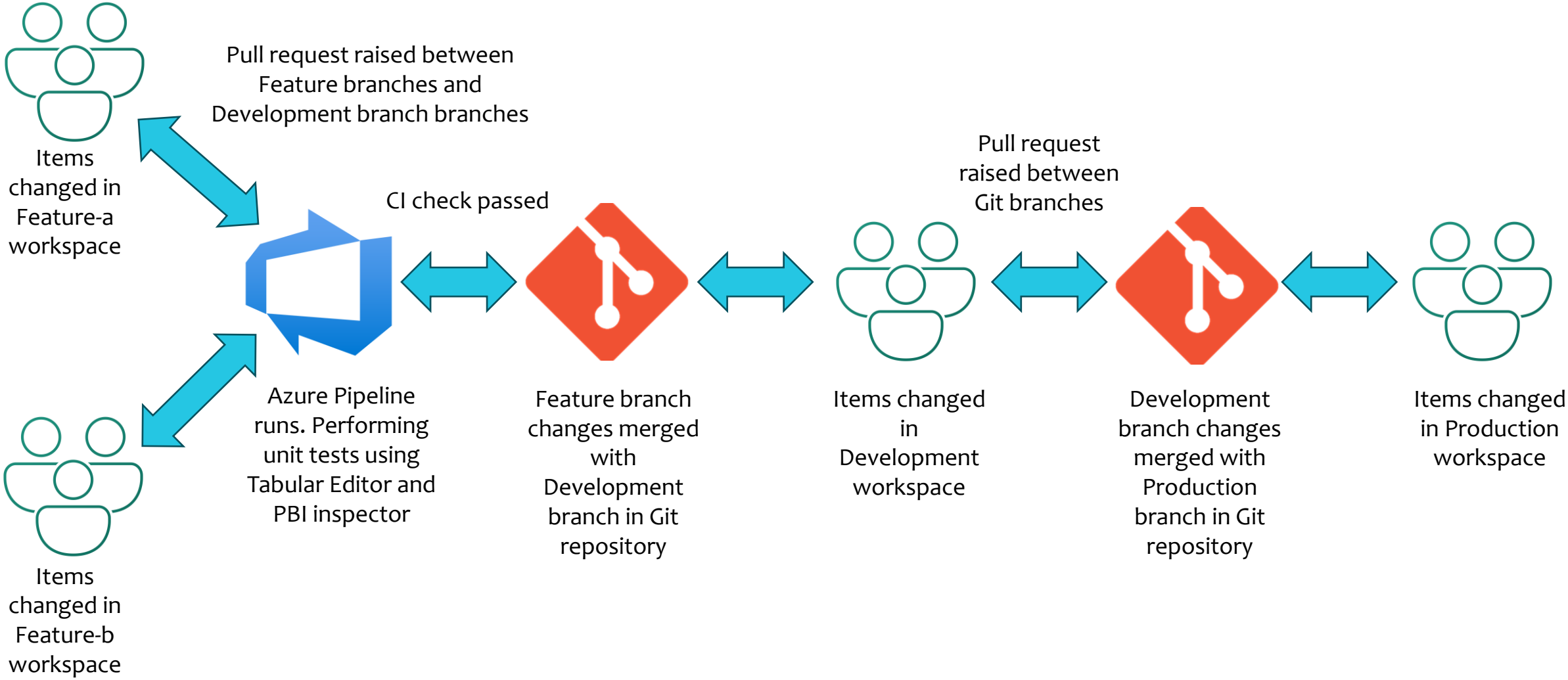
Working with multiple workspaces



Continuous Integration (CI) between two workspaces



Multiple branches



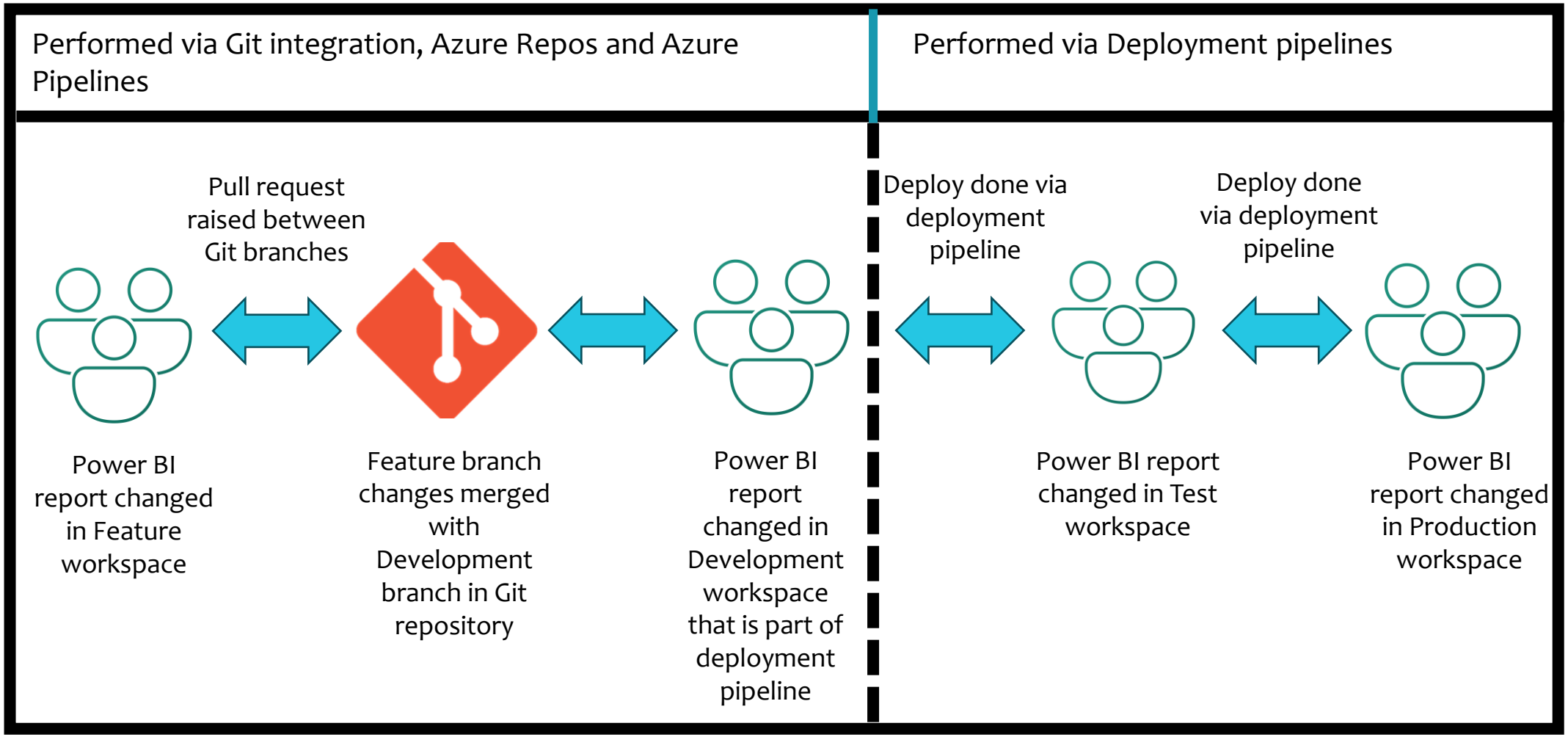
Git integration Demos

- Working with Azure DevOps
- Power BI Desktop project to Azure DevOps
- Multiple workspaces
- Working with GitHub

MS Fabric Deployment pipelines

- Introduced in Power BI.
- GUI-based way to deploy multiple items.
- Supports various items.
- Can be orchestrated by APIs.
- Can be implemented alongside Git integration.

GI & deployment pipeline



Deployment Pipeline Demos

- Introduction to deployment pipelines
- Working with Git integration.

Lineage & impact analysis

- Lineage allows view of flow of data.
- Impact analysis shows impact of changes.
- Allows you to notify workspace owners of changes
- Demo

Managing semantic models with the XMLA endpoint

- Read/write functionality introduced last year
- Allows you to read and write to semantic models via an endpoint
- Can be done with variety of tools. Including Tabular Editor and SSMS
- Demo

Reusable assets related to Power BI

- Power BI template (.pbit) files which allows you to create report templates within Power BI desktop.
- Power BI data source (.pbids) files which allows you to save data sources in a file. So that others can open it up and connect to the data to start working.
- Shared semantic models so that multiple people can create reports on the same one.

Questions

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Session Feedback

Event Feedback

Thank you

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