



# COMMUNITY SUMMIT

POWER  
PlatformUG

# 2023



Welcome  
To  
CHARLOTTE

The Largest Independent Gathering  
of the Microsoft User Ecosystem



# Bringing DataOps to Power BI Dataflows



Decrease Complexities,  
Deliver Results.

# About Me

## Experience

- 11+ years with Microsoft BI stack
- 8+ years with PowerPivot/Power BI
- 5+ years with Azure DevOps

## Credentials

- MCSE: Productivity
- MS: PBI Data Analyst
- PMP



John Kerski  
Client First  
Technologies

## Contact Me

X @JKerski

in John Kerski

 Blog

Slides:



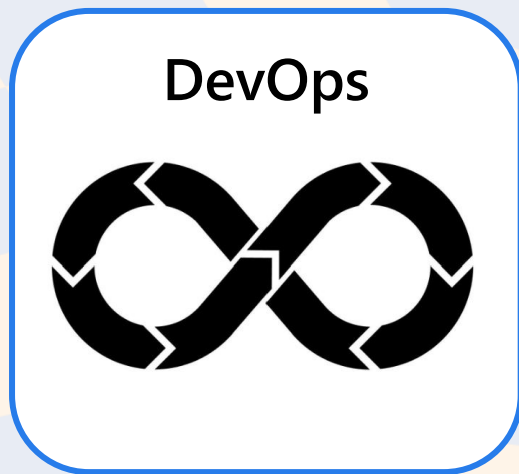
# | Agenda

- What is DataOps
- DataOps and Power BI Dataflows
- Demonstration

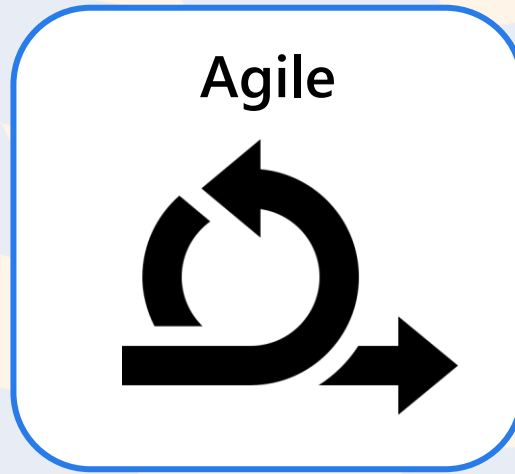


# DataOps

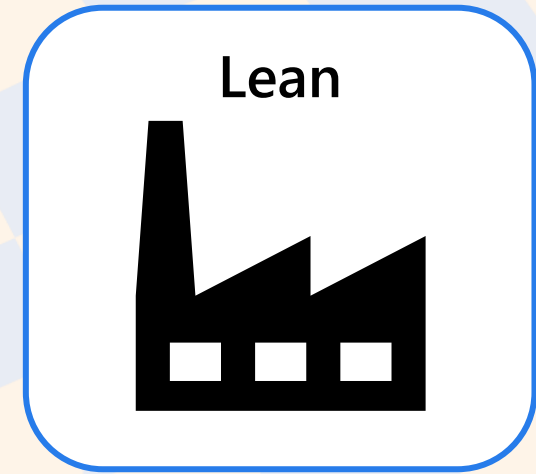
# What is DataOps?



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Manifesto

# DataOps + Power BI Dataflows?

# Make it reproducible

- Reproducible results are required and therefore we **version everything**: data, low-level hardware and software configurations, and the code and configuration specific to each tool in the toolchain.

*Get your work into Version Control*  
Issue #1 – Accessing Source Code



# Quality is Paramount

- Analytic pipelines should be built with **a foundation capable of automated detection of abnormalities** and security issues in code, configuration, and data, and should provide continuous feedback to operators for error avoidance.

*Testing is Paramount*

Issue #2 – Lack of Out-of-the-Box Testing Tool

## Polling Method

### *Pros*

- \$

### *Cons*

- Point-in-Time

## Push Method

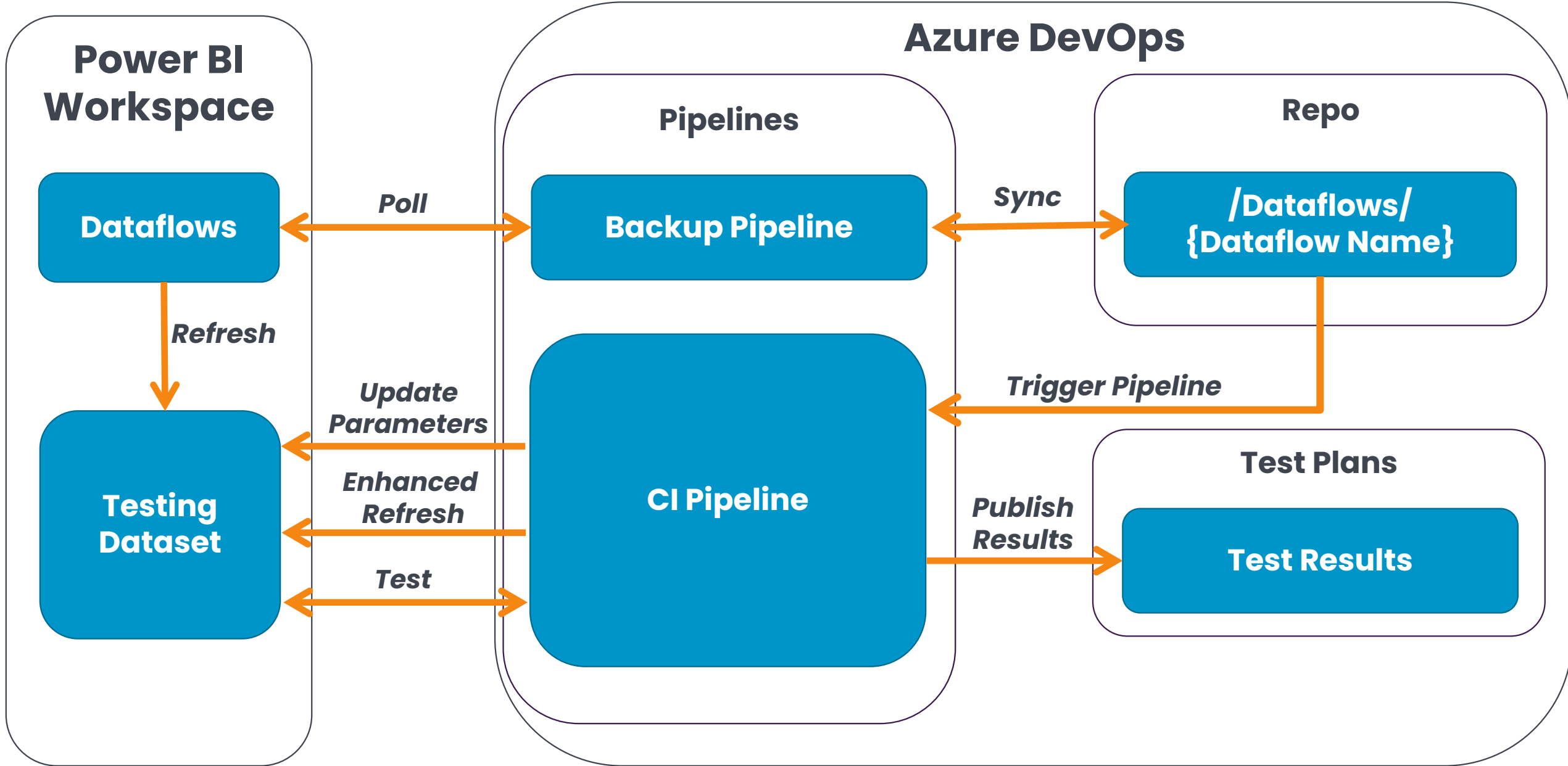
### *Pros*

- Captures All Versions

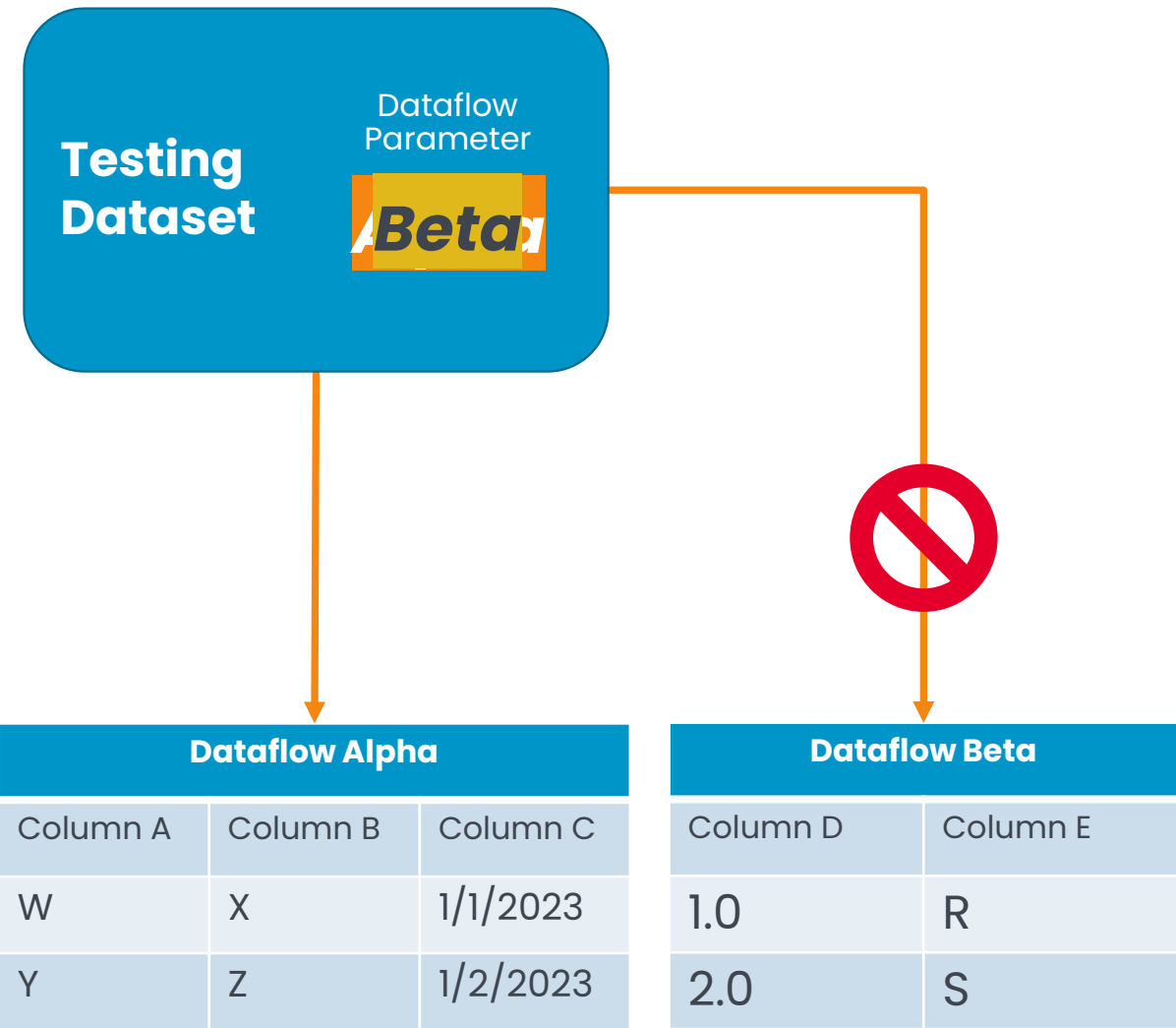
### *Cons*

- \$\$
- Bring Your Own Data Storage

# Polling Method



# Testing Dataset





# Demo



# Push Method

## Power BI Workspace

Dataflows

*Add/  
Update*

## Azure Resource Group

Azure Data  
Lake Storage  
Gen 2

*Read Blob*

*model.json  
snapshot  
Created*

Azure Event  
Grid

*Trigger  
Function*

Managed Identity

Azure Functions

*Push  
model.json  
snapshot*

*Read PAT*

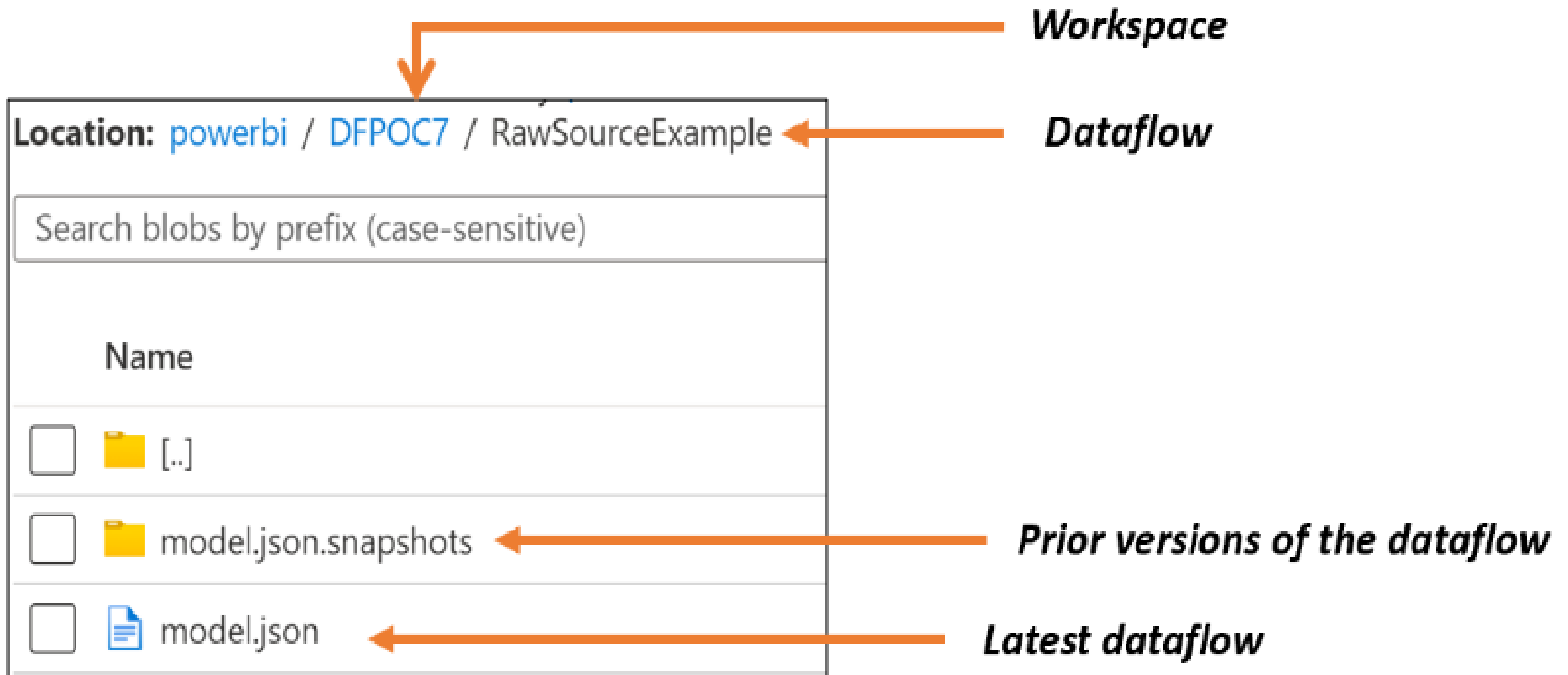
Azure Key  
Vault

## Azure DevOps

Project Repo

*Trigger*

CI Pipeline



# Demo





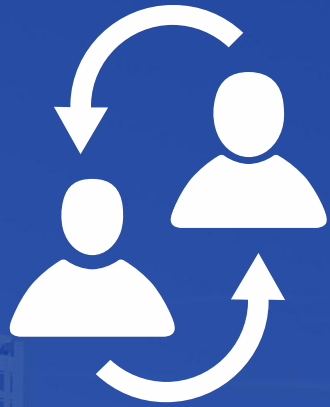
# Questions?

# **Thank you for Attending!**

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