



Microsoft Fabric

COMMUNITY CONFERENCE

 FabricConf.com | [#FABCON](https://twitter.com/FABCON)



Automated Testing with DAX Query View and Git Integration

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



Contact Me

 [John Kerski](#)

 [Blog](#)

Slides:



We are going to talk about testing



Agenda

- Why Test?
- DAX Query View (DQV) Testing Patterns
 - PBIX-Pattern
 - PBIP-Pattern
- Git Integration
 - CI-Pattern

Why Build Tests?



Suit of Armor for your Semantic Model



Publish and Pray



The Effects of Testing

- Find Errors Before Your Customers Do
- Never See The Same Error In Production Again
- Build Trust

DataOps

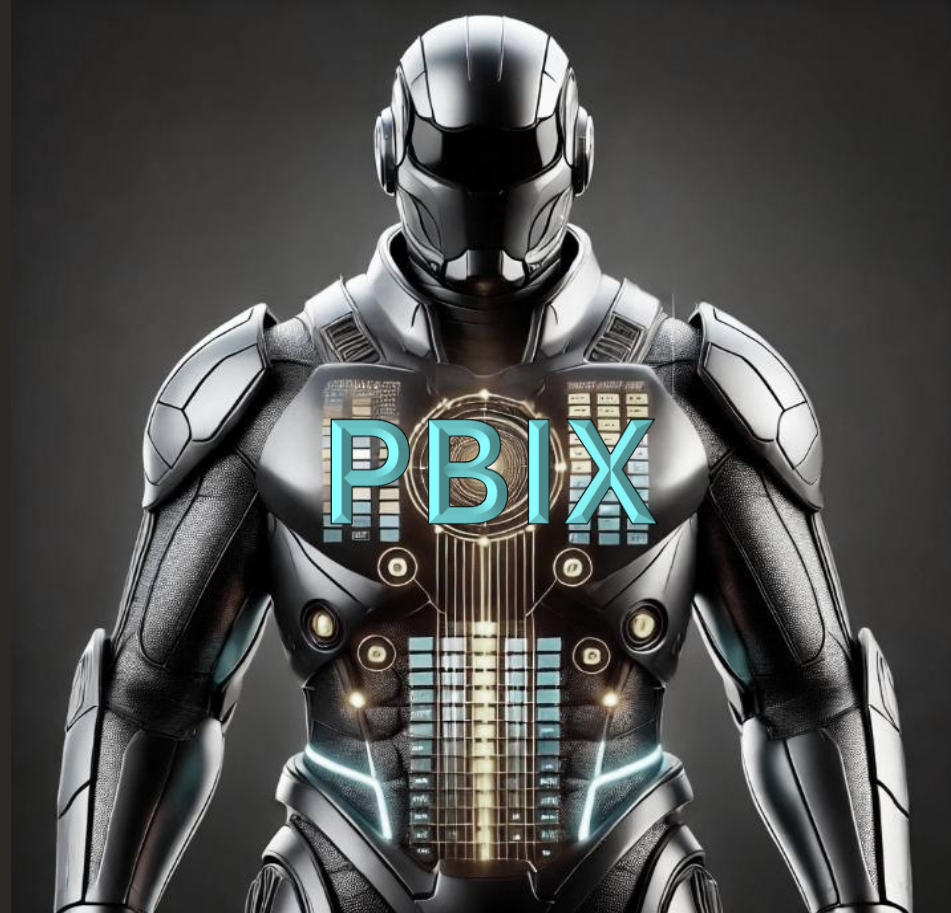


DAX QUERY VIEW TESTING PATTERNS



PBIX-Pattern Prerequisites

1. Recent Release of Power BI Desktop



DAX Query View

PBIX-Pattern

1. Standardize Schema

- TestName | ExpectedValue | ActualValue | Passed

2. Standardize Naming Conventions

- [name].[environment].tests
 - ex. Measures.DEV.Tests, Table.ALL.Test

3. Build Tests

1. Testing Content
2. Testing Calculations
3. Testing Schema



Something's wrong with one or more fields. [See details](#)



Something's wrong with one or more fields. [See details](#)

PBIP-Pattern Prerequisites

1. Recent Release of Power BI Desktop
2. PBIP Format
3. Visual Studio Code
4. PowerShell Core



Frequently Asked Questions

How long should you factor for building a test?

- 30-40 minutes first couple of iterations
- 5-10 minutes when routine

How many tests should I build?

- When errors occur in test and prod, then build a test

How do I “sell” testing to my boss/leadership?

- Focus more on new features rather than fixing old features
- Bad Data = Bad Decisions

Git Integration *Continuous Integration Pattern*



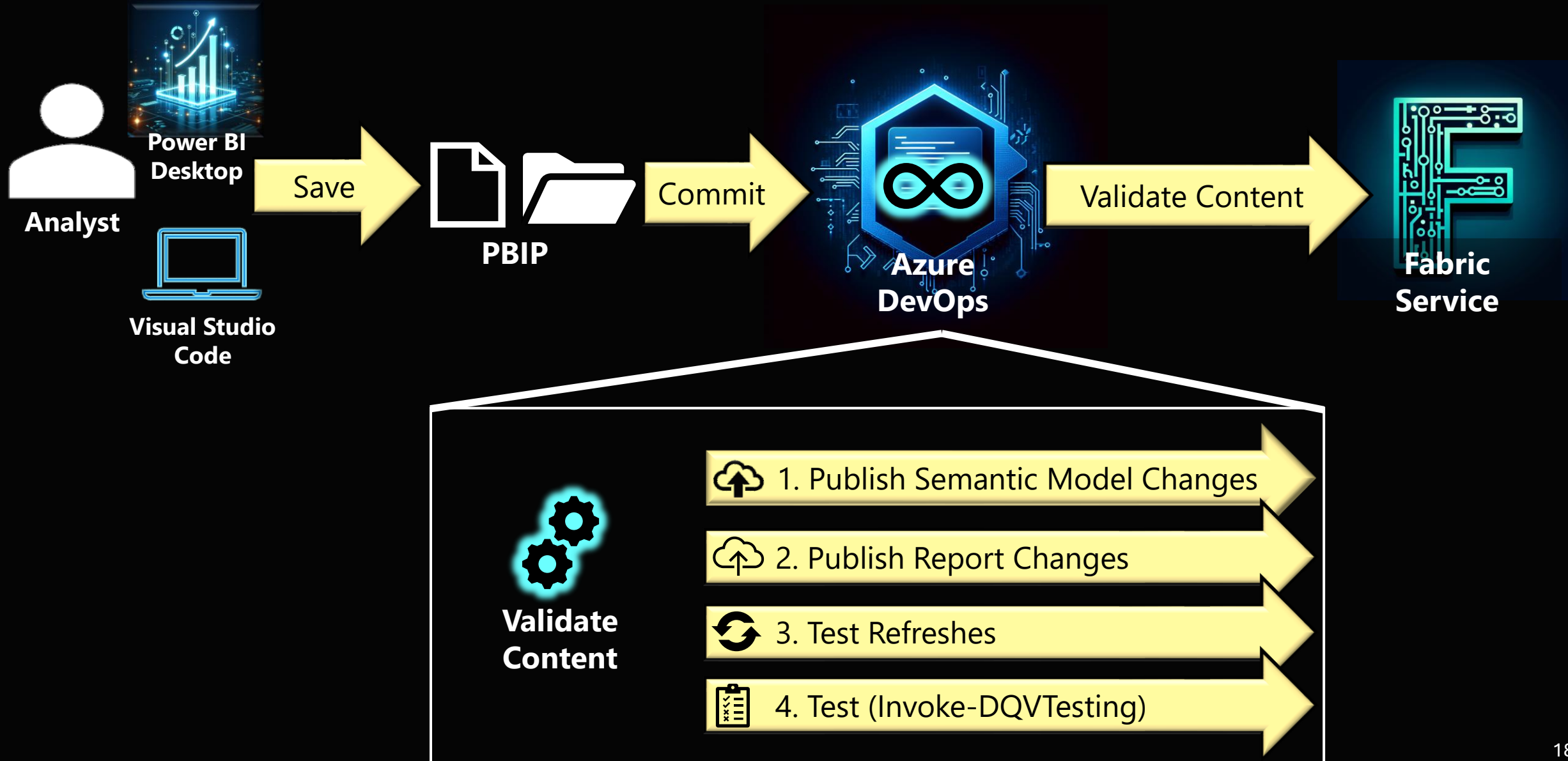
Continuous Integration (CI) Pattern

Prerequisites



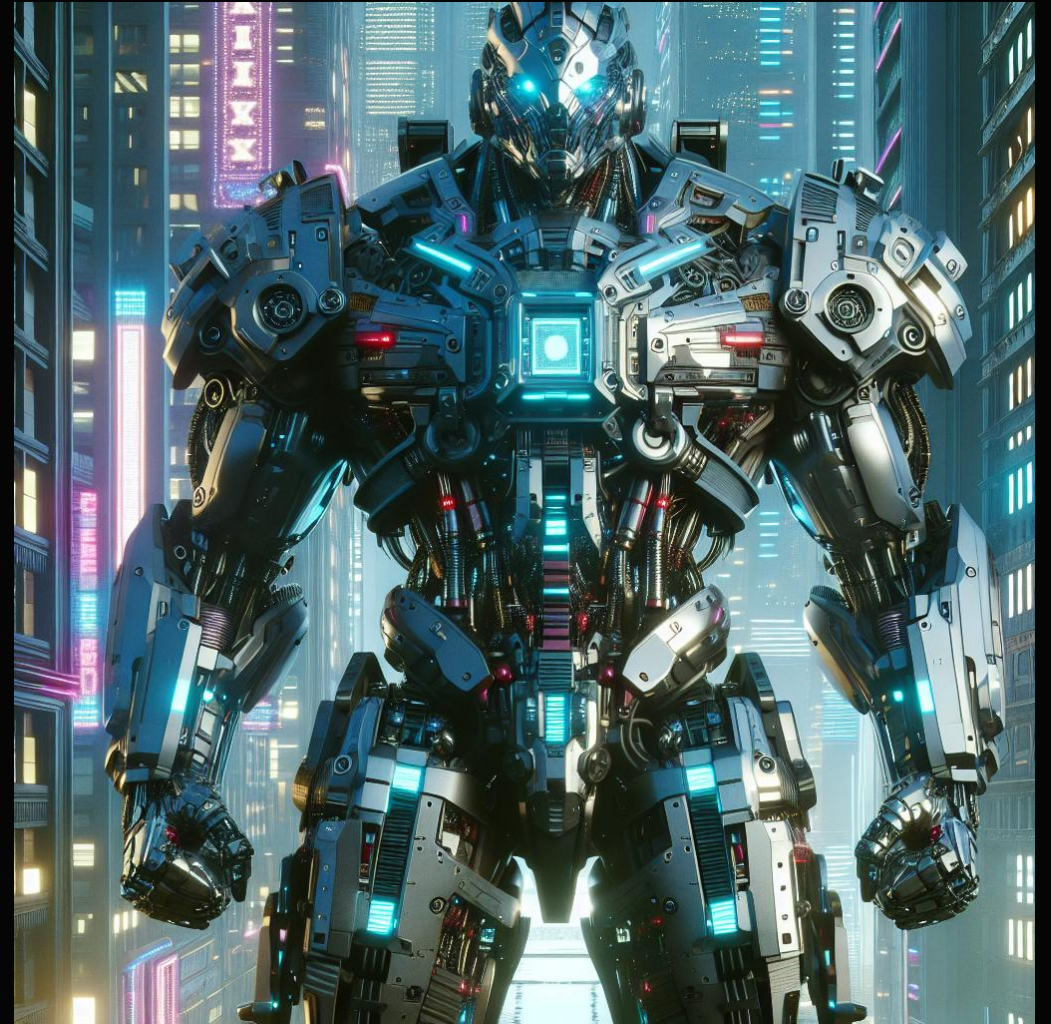
1. PBIP Format
2. Visual Studio Code
3. Git
4. Azure DevOps
5. XMLA/Service Principals
6. Premium-backed workspace
 - Will work with PPU

CI Pattern



Above Beyond

- Store Test Results in OneLake
- Azure DevOps + Fabric Notebooks
- RLS/OLS Testing + Notebooks
- Idea – API Support for DAX Queries



Questions?



Session Feedback Surveys

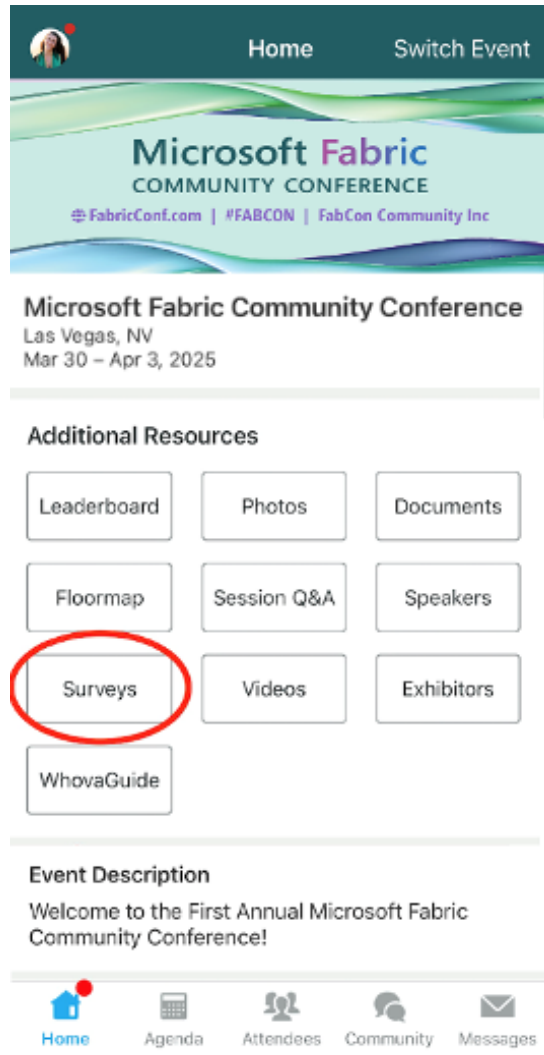
We really want to hear from YOU!

In the pursuit of making next year's Microsoft Fabric Community Conference even better, we want to hear your feedback about this session.

Here's How -

- *Simply go to the Whova App on your smartphone*
- *Scroll down on the Microsoft Fabric Community Conference Homepage to 'Additional Resources' to click "Surveys".*
- *Click Session Feedback.*
- *Scroll down to find this session title.*
- *Complete the session feedback survey.*
- *Finally, click 'Submit'*

It's just that easy!



UPCOMING 2025 EVENTS

NextGen 365 Events *presents*
 **Microsoft 365**
COMMUNITY CONFERENCE

MAY 6-8, 2025 MGM GRAND
WORKSHOPS: MAY 4, 5 & 9 LAS VEGAS, NV
 NextGen365Events.com

next **GenAI**
CONFERENCE

OCT 7-9, 2025 LOWES SAPPHIRE FALLS RESORT
WORKSHOPS: OCT 5, 6 & 10 **ORLANDO, FL**
 NextGenAIconf.com



Power Platform
COMMUNITY CONFERENCE

OCT 28-30, 2025 MGM GRAND
WORKSHOPS: OCT 26, 27 & 31 LAS VEGAS, NV
 PowerPlatformConf.com