

Bringing DataOps to Power BI with Azure DevOps

June 15, 2021

About Me



Experience

- 10+ years with Microsoft BI stack
- 7+ years with PowerPivot/Power BI
- 5+ years with Azure DevOps

Credentials

- MCSE: Productivity
- MS: Teamwork Administrator
- MS: Data Analyst
- PMP

Files: <https://bit.ly/3w8vqbc>

Contact Me



@JKerski



John Kerski

Questions For the Audience



Agenda

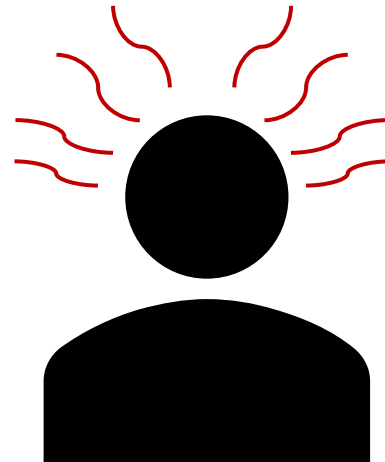
- DataOps High-Level
- The Challenges
- Overcoming These Challenges
- Demo

Have you Heard This Before?

*This report looks
wrong?*

*Why does it take this
long to build?*

*This doesn't look
right...*



*Why is the dashboard not
updated?*

Why is it broken?

This was working yesterday...

DataOps

- [Manifesto](#)
- DevOps + Agile + Lean Manufacturing
- 18 Principles
 - Make it reproducible
 - Quality is paramount
 - Monitor quality and performance

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.

Make it Reproducible

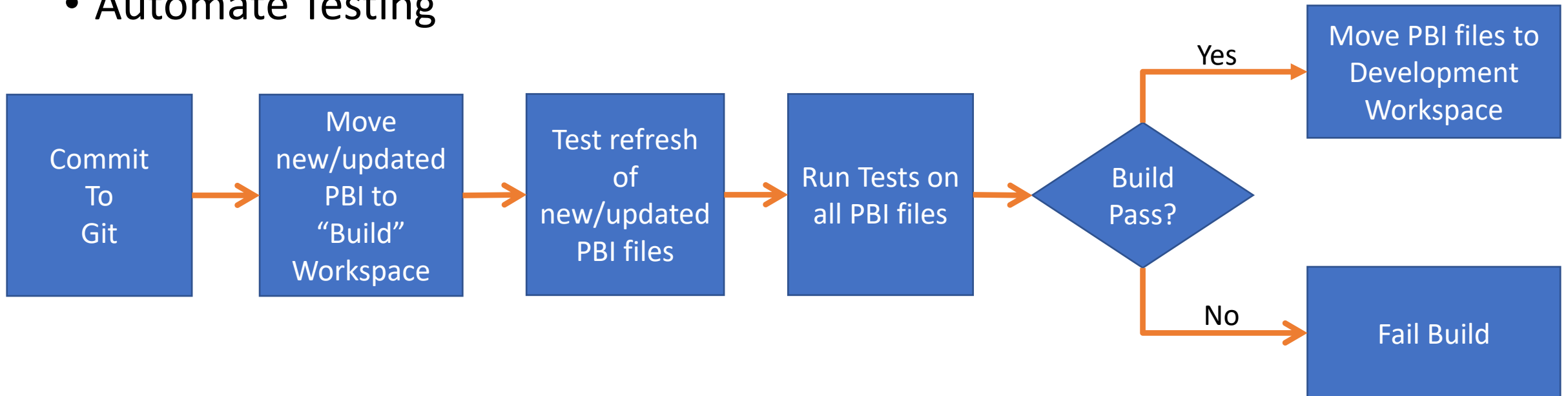
- Version Control
 - Azure DevOps/Git
 - OneDrive
- Workspace
 - Automate publishing
 - Eliminate direct publishing
 - Separate the Report from the Data

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.

Quality is Paramount

- Test Your Code
 - Tables
 - Measures
 - Calculated Columns
- Automate Testing



Monitor Quality and Performance

Our goal is to have performance, security and quality measures that are **monitored continuously** to detect unexpected variation and generate operational statistics.

Monitor Quality and Performance

- Automate Monitoring
 - Don't rely on emails
 - Leverage Power BI to monitor Power BI
 - Failed Refreshes
 - Disabled Refreshes

Demo

- Premium is NOT the only option
- Automate On A Budget
 - Premium Per User
 - Azure DevOps

Questions For Me

