

# DataOps 101

**A Better Way to Develop and Deliver Data Analytics**  
**November 5<sup>th</sup>, 2025**

Survey



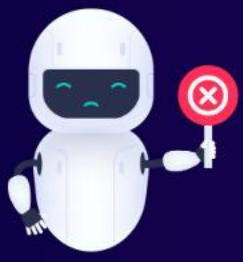


## PHOTOGRAPHY DURING THE SESSION

Feel free to capture the moment! Taking pictures of the presentation, during the session is perfectly fine.

## SELFIES WITH THE SPEAKER

We encourage interaction! If you'd like to take a selfie with the speaker, don't hesitate to ask. Most speakers will be happy to oblige during appropriate breaks.



## RECORDING AND LIVE STREAMING

Recording or live streaming the session, in part or in full, is strictly prohibited. Thank you for respecting our content and Speakers.

# About Me

## Experience

- 12+ years with Microsoft BI stack
- 9+ years with PowerPivot/Power BI
- 6+ years with Azure DevOps

## Credentials

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



## Contact Me

**in** [John Kerski](#)

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Slides:



# Agenda

- Background
- What is DataOps
- Why it Matters
- How it can Help You

# Scenario

- Alex – The Boss
- Bob – The Data Analyst



# Day 1

Alex

Great job @Bob, the new Power BI Report is going over well with the executives!



Bob

Thanks! That's great to hear!

# Day 2

Alex **IMPORTANT!**

@Bob, The executives are in a meeting and the slicer doesn't have all the options like it did yesterday, can you fix it ASAP?

Bob  
I'm on it!



Alex

Thanks for saving the day superhero

# Day 3

Alex **IMPORTANT!**

@Bob, Charlie in Accounting looked at the new Power BI Report and he says the numbers in the table visual don't add up correctly when you update that slicer you fixed yesterday?

Bob

I'm on it... may take two days because I need to test.

Alex

Let's get that fixed today.



# Day 4

Alex **IMPORTANT!**

I got a call from an executive, the KPI card that uses the same measure in the table you fixed yesterday looks wrong.

Bob  
I'm on it 😊



Alex

Let's not have more errors today.

# Day 5

Alex

Accounting called again, the model has a new column in it,  
did you do that?

Bob

No, let me check.

Alex

Alright... rough week



# Show of Hands



# Risks

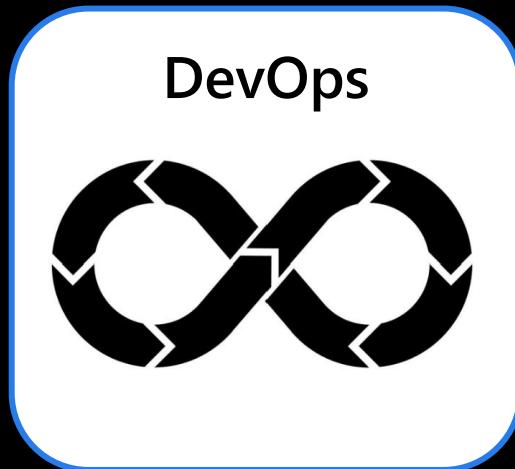
# Issues

**Data is a Strategic Asset but...**

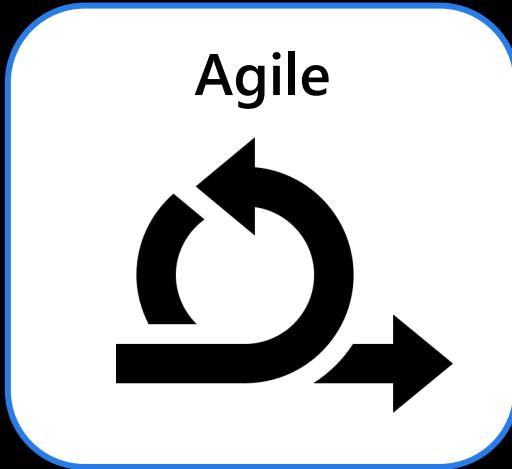


# DataOps

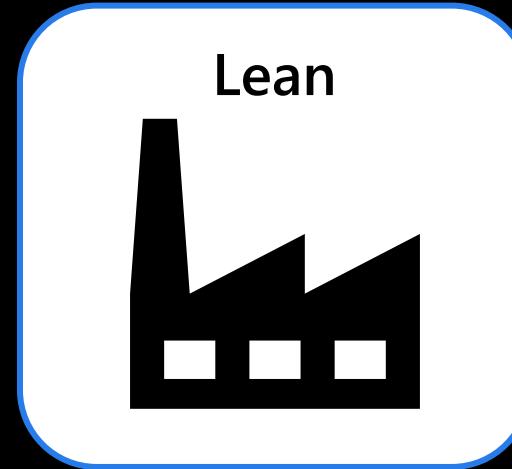
# What is DataOps?



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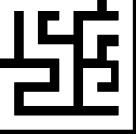
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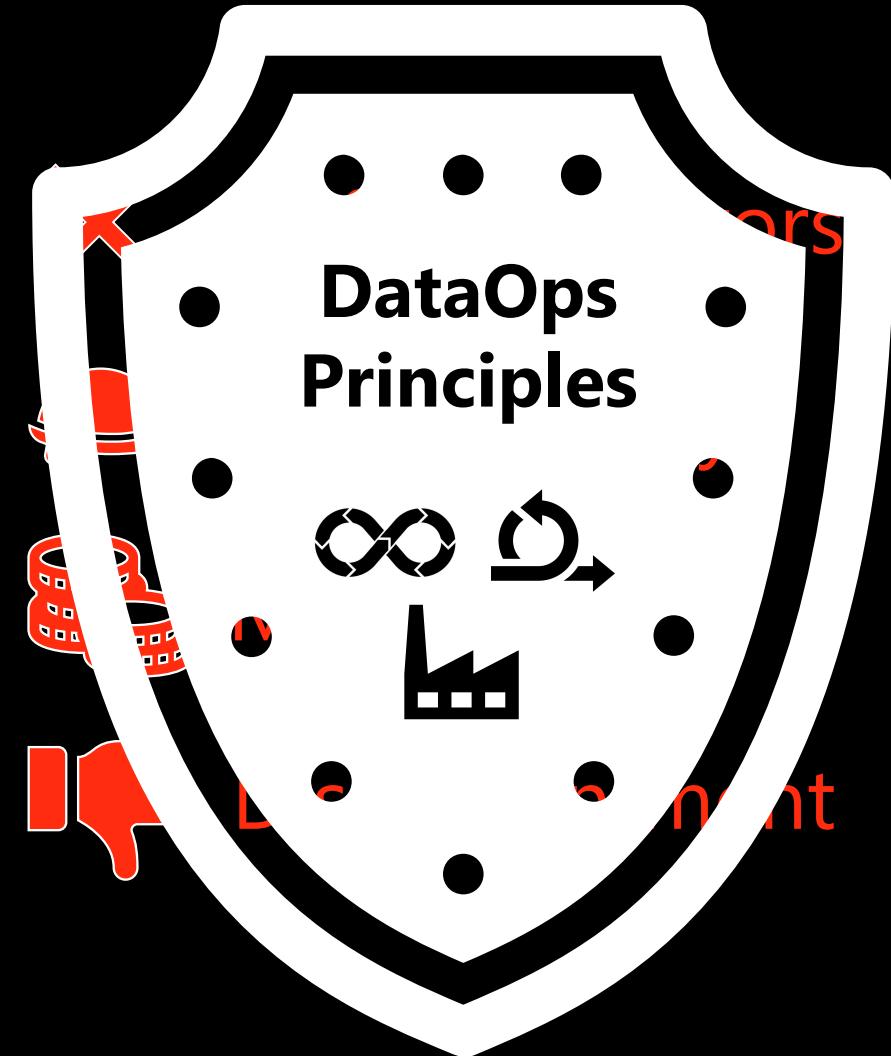


Manifesto

# Why It Matters

**Data is a Strategic Asset but...**

-  Demand is High
-  Complex Data Lineage
-  Data Quality Issues



# How can it help me?

# 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.

*Learn Git*

*Get your work into Version Control*

# Version Control Path



OneDrive/SharePoint

*Low Barrier to Entry*



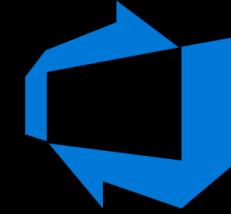
Git-LFS

*First Step to Dev Mode*



pbi-tools

*Next Step to Dev Mode*



PBIP/Git Integration

*The Future*

 Executive Dashboard - real real.pbix Executive Dashboard (28).pbix Executive Dashboard (26).pbix Executive Dashboard (25).pbix Executive Dashboard (24).pbix Executive Dashboard (23).pbix Executive Dashboard (22).pbix Executive Dashboard (21).pbix Executive Dashboard (20).pbix Executive Dashboard (19).pbix Executive Dashboard (18).pbix Executive Dashboard (17).pbix Executive Dashboard (16).pbix Executive Dashboard - real copy.pbix Executive Dashboard - save.pbix Executive Dashboard - real.pbix Executive Dashboard - (50).pbix Executive Dashboard - (49).pbix Executive Dashboard - (48).pbix Executive Dashboard - (47).pbix Executive Dashboard - (46).pbix Executive Dashboard (7).pbix Executive Dashboard (6).pbix Executive Dashboard (5).pbix Executive Dashboard (4).pbix Executive Dashboard (3).pbix Executive Dashboard (2).pbix Executive Dashboard (1).pbix Executive Dashboard.pbix Executive Dashboard (30).pbix Executive Dashboard (30) - Copy.pbix Executive Dashboard (30) - Copy (1).pbix Executive Dashboard (30) - backup.pbix Executive Dashboard (20) - backup.pbix Executive Dashboard (5) - proposal.pbix Executive Dashboard (5) - proposal final draft.pbix Executive Dashboard (6) - final final.pbix Executive Dashboard - My Edits.pbix Executive Dashboard - DAX fix.pbix Executive Dashboard - Prototype.pbix Executive Dashboard (29).pbix Executive Dashboard (31).pbix Executive Dashboard (32).pbix Executive Dashboard - maybe fix.pbix

# 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.

*When you Find an Error, Build a Test  
Tests are your Safety Net*

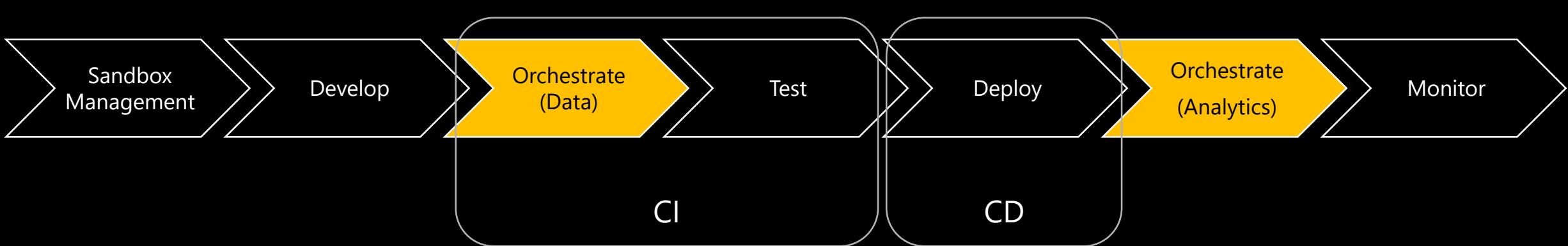
# Orchestrate

The beginning-to-end orchestration of data, tools, code, environments, and the analytic teams work is a key driver of analytic success.

*Continuous Integration*

*Continuous Deployment*

*Scripts over Clicks*



# 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.

*Catch the Errors Before Your Customers Do  
Practice What You Build*

# Reduce Heroism

As the pace and breadth of need for analytic insights ever increases, we believe analytic teams should strive to reduce heroism and create sustainable and scalable data analytic teams and processes.

*Avoid Burnout*

# Recap – How Can it Help You

1. **Make It Reproducible** - Learn/Embrace Git
2. **Quality is Paramount** - Find an Error, Build a Test
3. **Orchestration** - Implement CI/CD
4. **Monitor Quality and Performance** - Catch Errors Before Your Clients Do
5. **Reduce Heroism** – Avoid Burnout

# DataOps Aphorisms

- It is not about the fear of making a change; it is about the removal of fear from making changes.
- It is not about data quality; it is about low rates of error.
- It is not about the next analysis; it is about building a system that makes it easier to answer the next analysis.
- You spend all day helping your customers be more analytic, so why are you so un-analytic about how you run your data analytics teams?
- Don't solve problems, figure out how to never create them in the first place.

# Resources

- General
  - DataOps Cookbook
  - DataOps – Chris Bergh
- Version Control
  - GitHub Desktop Tutorial
  - YouTube - Version Control
  - pbi-tools
- Testing & Orchestration
  - YouTube - Testing
  - Visual Testing
  - DQV Testing
  - Real-time
  - GitHub Actions
- Monitoring
  - Template

# Questions?



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