

JULY 14 2020



LIGHTUP VIRTUAL CONFERENCE

24 HOURS OF MICROSOFT TECHNOLOGIES LEARNING & FUND RAISING EVENT TO FIGHT COVID-19

Enterprise Power BI deployments with Azure DevOps Marc Lelijveld

@MarcLelijveld #PowerBler

Powered By





Donate



IN SUPPORT OF



















Powered By





Marc Lelijveld

Data & Al consultant Macaw Netherlands











Marc.Lelijveld@outlook.com



@MarcLelijveld



linkedin.com/in/MarcLelijveld



Data-Marc.com

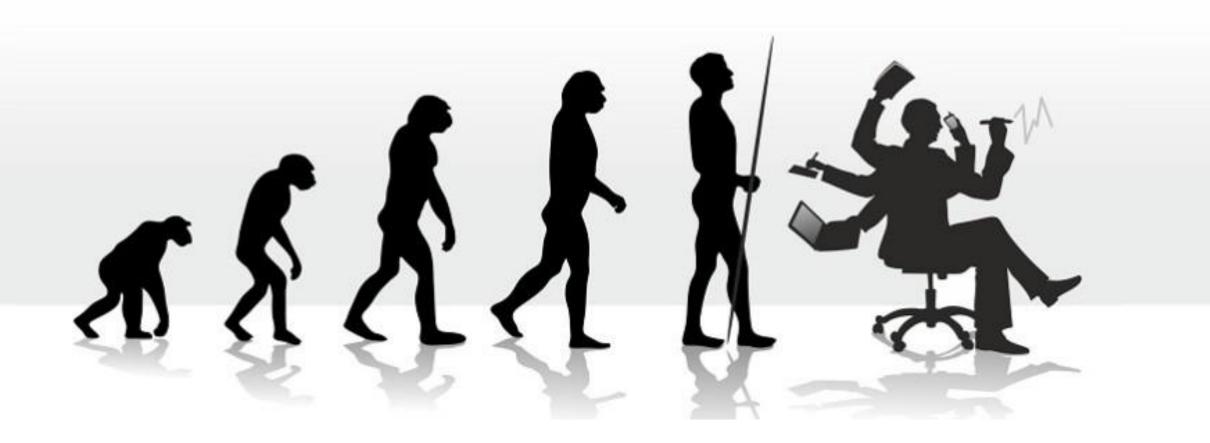


What we cover today

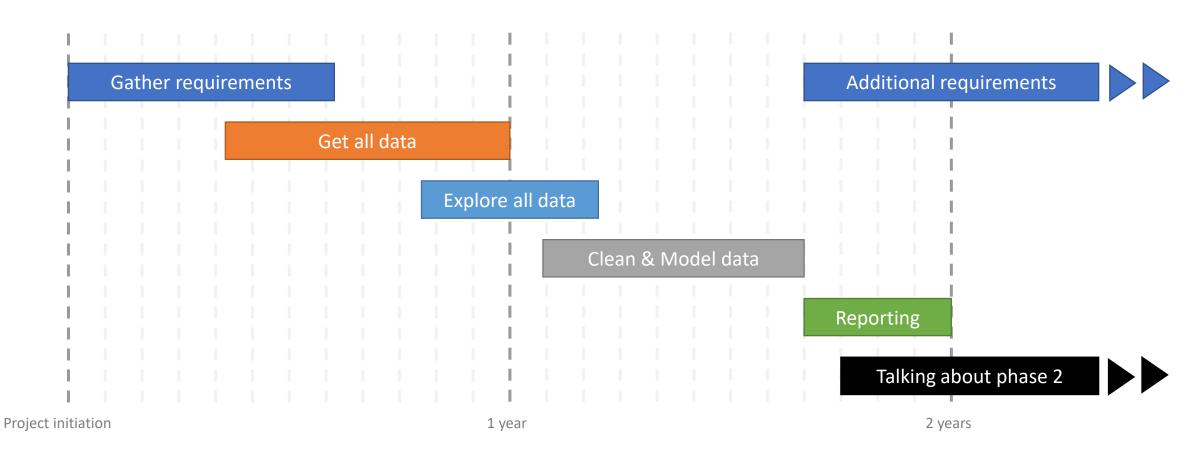
- Our way of working
- The evolution of BI
- Deployment framework
- Demo time!
- What about dataflows?
- Azure DevOps vs Deployment Pipelines
- XMLA endpoints & roadmap



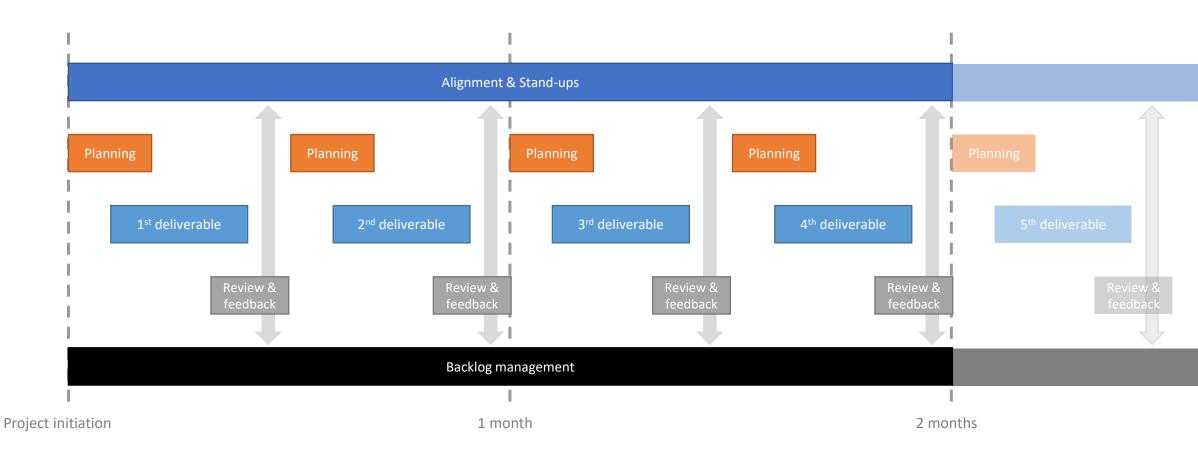
Busy era

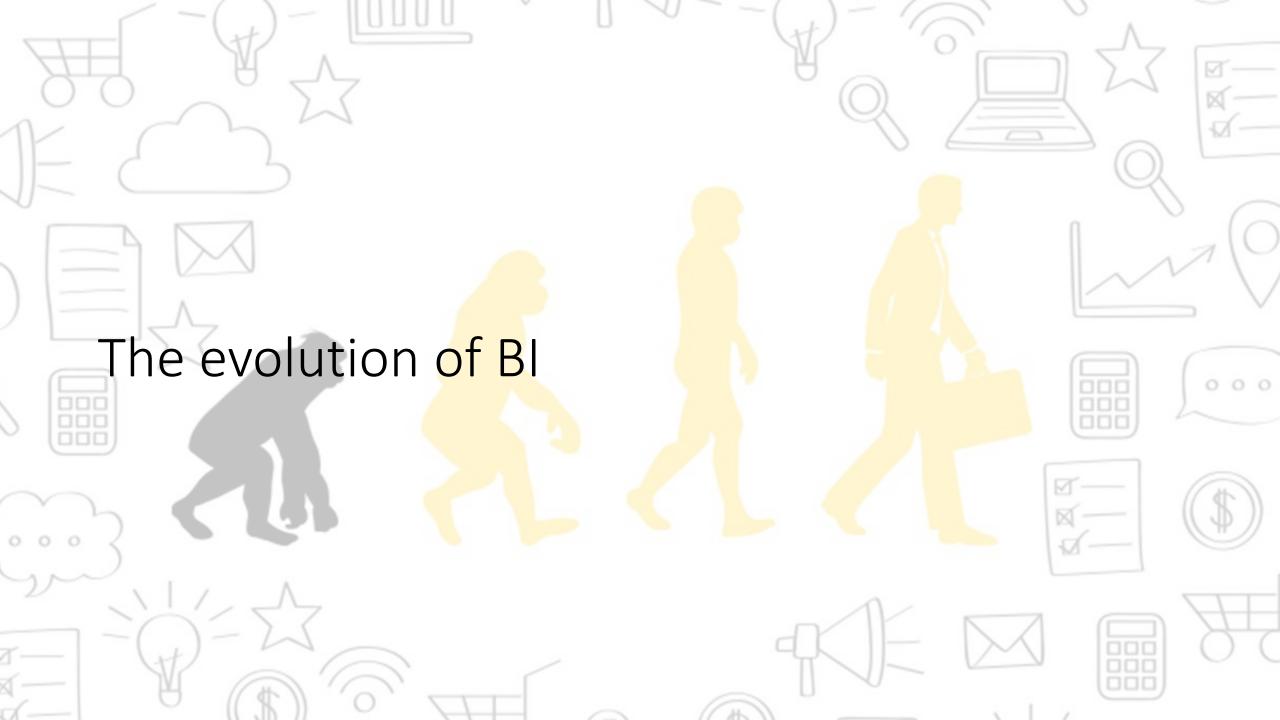


Classic approach



Start working agile





The evolution of BI

3rd wave End user BI

2nd wave Self-service BI

1st waveCorporate Bl







Self-service vs End-user BI



Deployment scenarios

IT-Managed Business-Led Corporate BI Self-Service BI Self-Service BI **Approach** Blended Bottom-Up Published by IT Only governed sources **Data sources** Any type of data source IT for data model, Business supports all **Ownership** Fully supported by IT elements of the solution Business for reports IT for data, **Governed by** IT **Business** business for reports Usage scope of Creation of (custom) Data prep, modelling, reports Only use of content and dashboards business reports and dashboards

Deployment scenarios

Approach

Data sources

Ownership

Governed by

Usage scope of business

Corporate BI



Published by IT

100%

IT-Driven

Durkey and a section of

IT-Managed
Self-Service BI



Only governed sources

50/50

IT for data,

Creation of (custom) reports and dashboards

Business-Led Self-Service BI



Bottom-Up

Any type of data source

100%

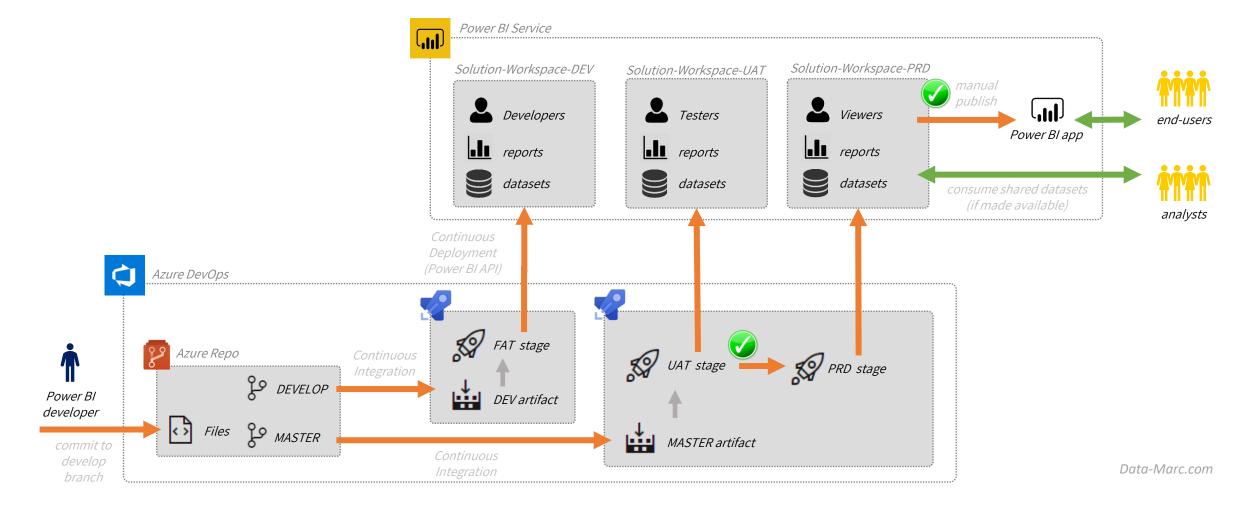
Business Driven

Business

Data prep, modelling, reports and dashboards

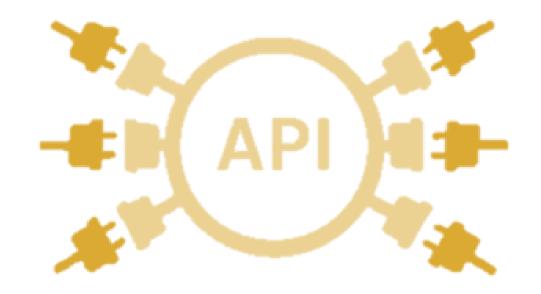


Deployment scenario



Deployment scenario

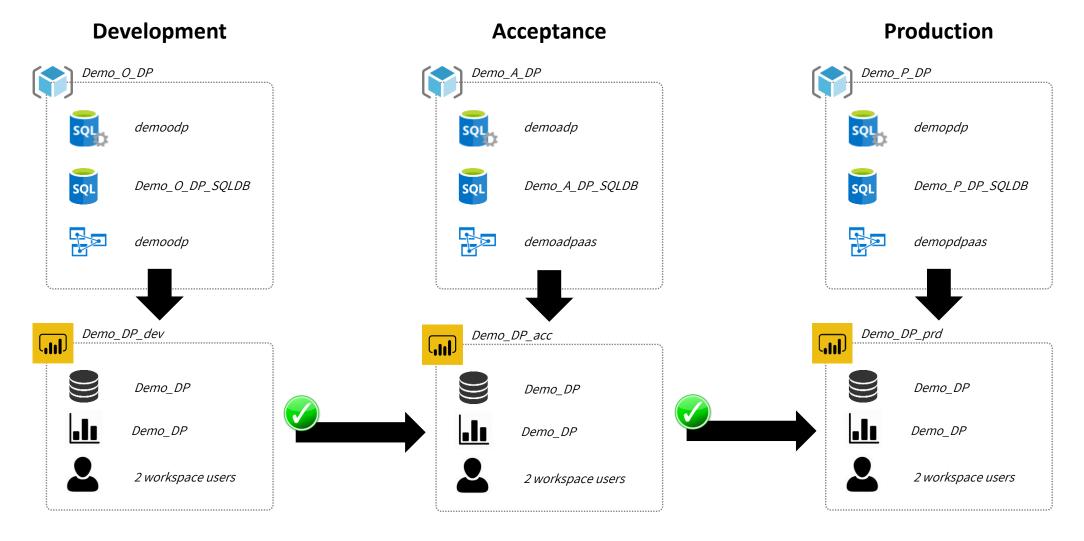






Power BI Service

Demo context



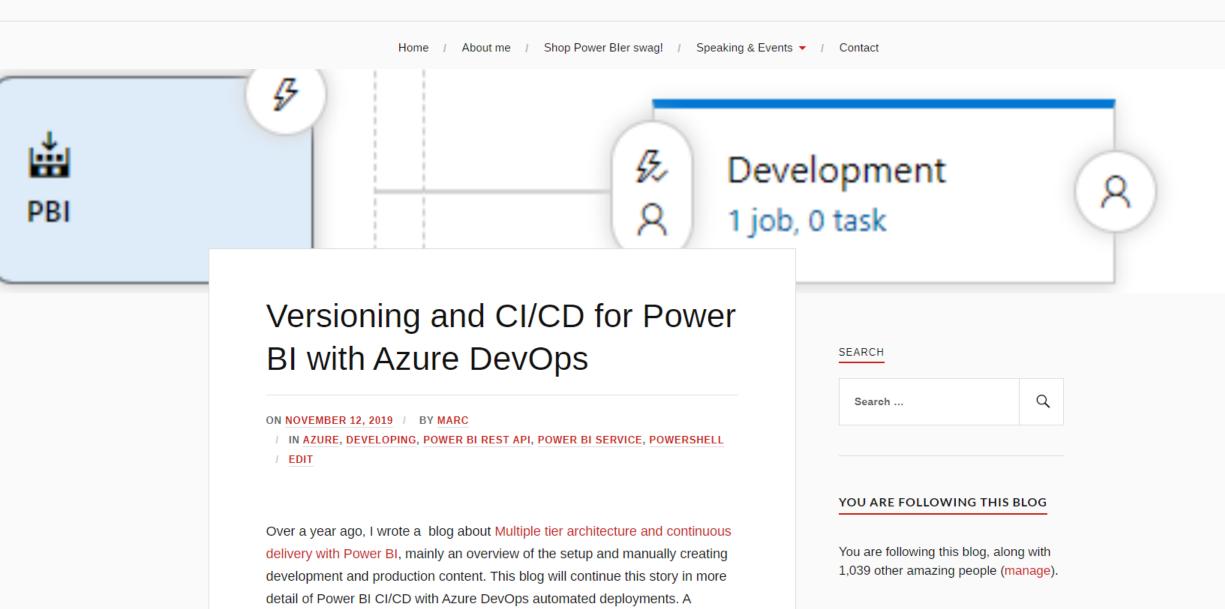
Demo time!

Because life is boring without risks



Data – Marc

Blogging about everything related to Data and AI based on Microsoft technology



solution where Dave Ruijter, Ton Swart and I worked on over the last year. The



Macaw Power BI Extensions

Macaw | \pm 85 installs | $\star\star\star\star\star\star$ (0) | Free

Power BI release manager tasks for Azure DevOps.

Get it free

Overview Q & A Rating & Review

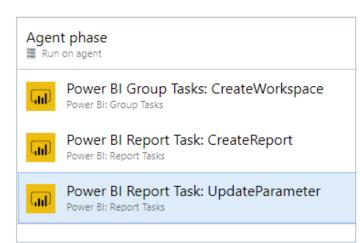
Macaw Power BI Extensions is a Build and Release Task for Azure Pipelines. With this tasks you can control your Power BI deployment in Azure DevOps

Actions that can be performed with this extension are:

- · Group tasks
 - Create or Update Power BI workspace
 - o Delete Power BI workspace
 - · Write all workspace info to JSON logfile
- · Report tasks
 - o Create or Update Power BI Report
 - Delete Power BI Report
 - Delete Power BI DataSet
 - o Update the datasources of the specified dataset
 - Update the parameters values for the specified dataset

For the custom task to work as it should, you need to configure the following parameters:

- Clientld: The client id of the native Azure Active Directory application. This application should have the
 appropriate rights in order to use the Power BI Api. To register an application, check the following URL: Register
 an Azure AD app to embed Power BI content
- . Username: The username of the user that will perform the actions. Make sure the account does not have Multi



• 0

Categories

Azure Pipelines

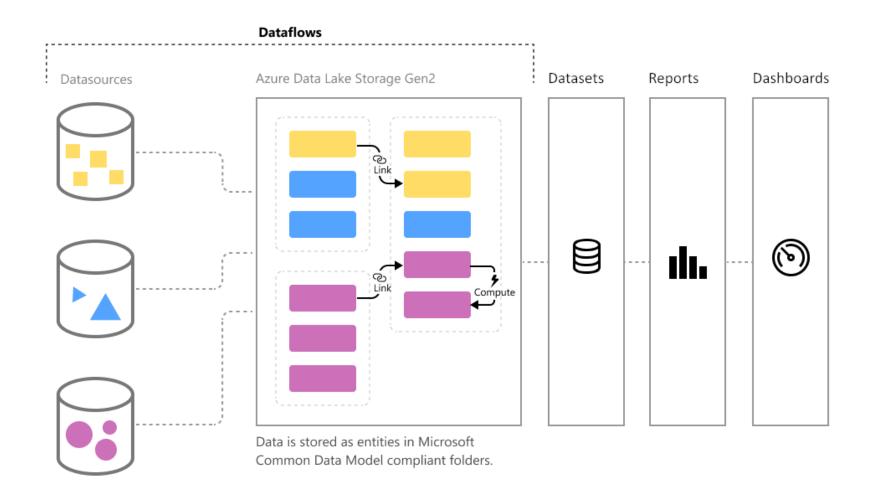
Works with

Azure DevOps Services Azure DevOps Server

Resources

11.....

But what about dataflows?



Data – Marc

Blogging about everything related to Data and AI based on Microsoft technology

Shop Power Bler swag! / Speaking & Events ▼

Dashboards Reports Workbooks Datasets Dataflows

Move dataflows across workspaces with the Power BI REST API

ON OCTOBER 22, 2019 / BY MARC

IN DATAFLOWS, DEVELOPING, POWER BI REST API, POWER BI SERVICE,

/ EDIT

POWERSHELL

Dataflows are part of the Power BI service for a while now. More and more people are starting to benefit from it in multiple perspectives. The two most heard ones are re-use of data (and logic), but also isolate refreshes to avoid dependencies of refresh failures from different sources.

Same as for your data sources, you might have different workspaces setup in different stages of your DTAP development approach. In the past, I wrote a

SEARCH

Q Search ...

YOU ARE FOLLOWING THIS BLOG

You are following this blog, along with 1,039 other amazing people (manage).

CATEGORIES

► Adoption (1)



Create a deployment pipeline

Use a pipeline to manage your workspace content through the deployment stages, continuously delivering the latest content to your users.

DevOps vs Deployment Pipelines

Create a pipeline

Start by creating the pipeline you'll use for managing and deploying the workspace content

Assign your workspace

Select your workspace and assign it to a deployment stage (development, test, or production).

Develop and test your content

Manage, preview, and compare your workspace content until its ready for releasing to users

Share with your users

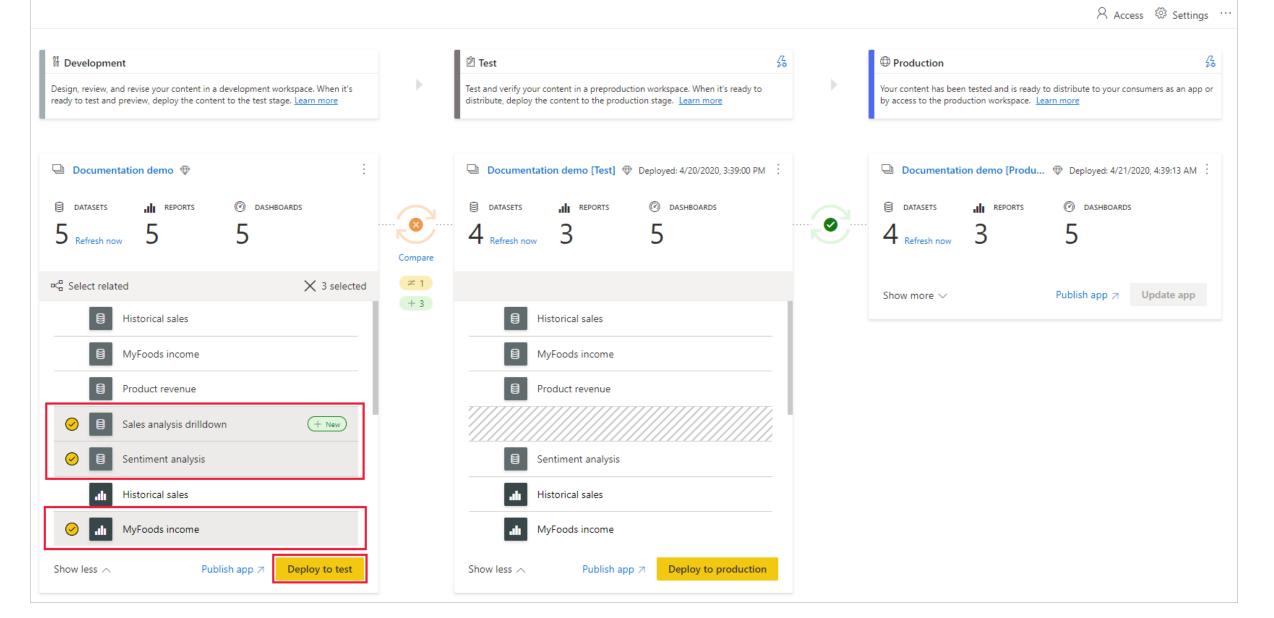
Deploy your content to production and share it with your organization

Create a pipeline

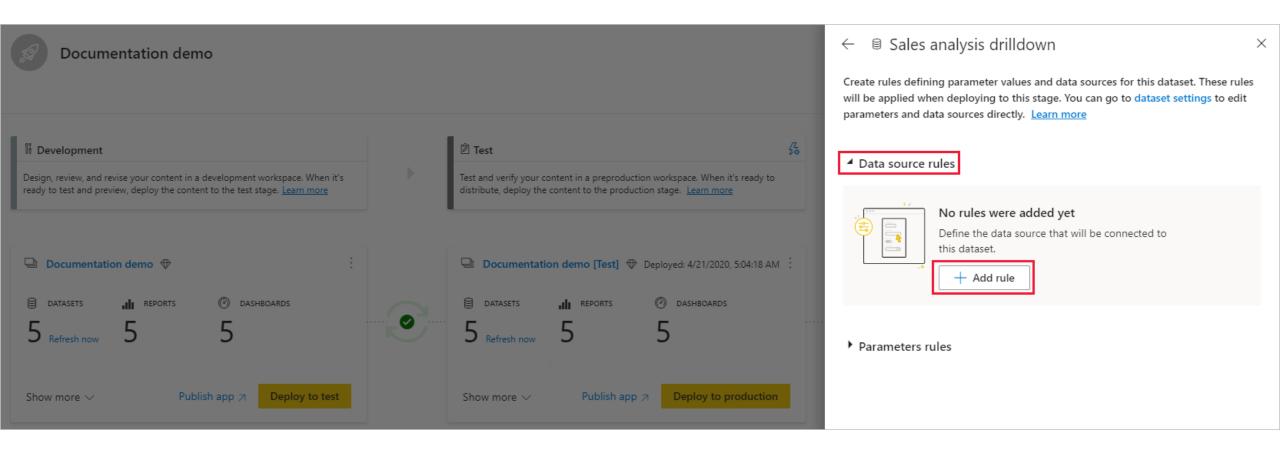
How it works

- Meta data deployment
- Incremental deployment
- Requires Premium! (must be P-sku in production!)
- No dataflow support (yet?)
- No versioning (yet?)





Deployment settings





Power BI Deployment Pipelines



Working with multiple users is a native functionality



Meta data and incremental deployments is default



Requires Power BI Premium



No versioning capability



No support for dataflows



Azure DevOps



Working with multiple users is a native functionality



Full overwrite at every deployment, unless you customize to use XMLA



Works for both Pro and Premium



Azure DevOps repositories can be used for versioning



Dataflow support can be added by customizing the pipelines



Comparison

Functionality	Azure DevOps	Deployment Pipelines	Better option
Working with multiple users	Yes	Yes	-
Incremental deployment	No	Yes	Deployment pipelines
Meta data deployment	No	Yes	Deployment pipelines
Requires Power BI Premium	No	Yes	DevOps
Versioning	Yes	No	DevOps
Dataflow support	Yes	No	DevOps
Integration with other processes	Yes	No	DevOps
Customization	Yes	No	-

Data – Marc

Blogging about everything related to Data and AI based on Microsoft technology

Shop Power Bler swag! / Speaking & Events ▼ Why you should care about Power BI Deployment Pipelines Q Search ... ON JULY 9, 2020 | BY MARC | IN POWER BI PREMIUM, POWER BI SERVICE After a short holiday break, it is time for a new blog post! This time about one of YOU ARE FOLLOWING THIS BLOG the most exciting functionalities in Power BI that has been released in the past release wave, Power BI Deployment Pipelines! You are following this blog, along with 1,281 other amazing people (manage). In this blog I will elaborate on what Power BI Deployment Pipelines are, why it

is an important part of your landscape and a comparison to other options you

Recap

- Version history done automatically
- Professionalize your deployment process
- Easy roll-back if needed
- Roll-out more than only Power BI in one go!
- Deployment pipelines is promising! But not complete yet.
- XMLA read/write will be even more awesome!



Thanks for attending!



Marc Lelijveld
Data & Al consultant
Macaw Netherlands



@MarcLelijveld

in linkedin.com/in/MarcLelijveld

Data-Marc.com



Download for free!

https://bit.ly/cheatsheetpbi

Speaker Feedback



Event Feedback

