Enterprise & multi-tier Power Bl deployments

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What we cover today

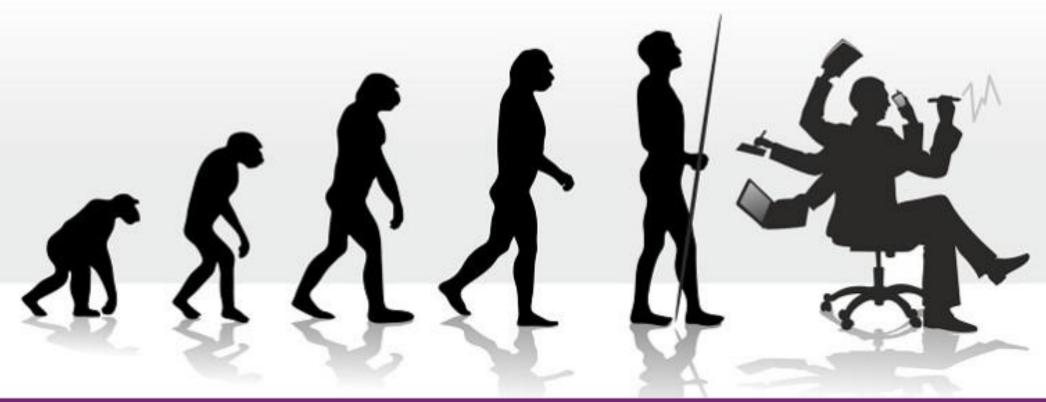
- Our way of working
- The evolution of BI
- Deployment framework
- Demo time!
- What about dataflows?
- XMLA endpoints & roadmap





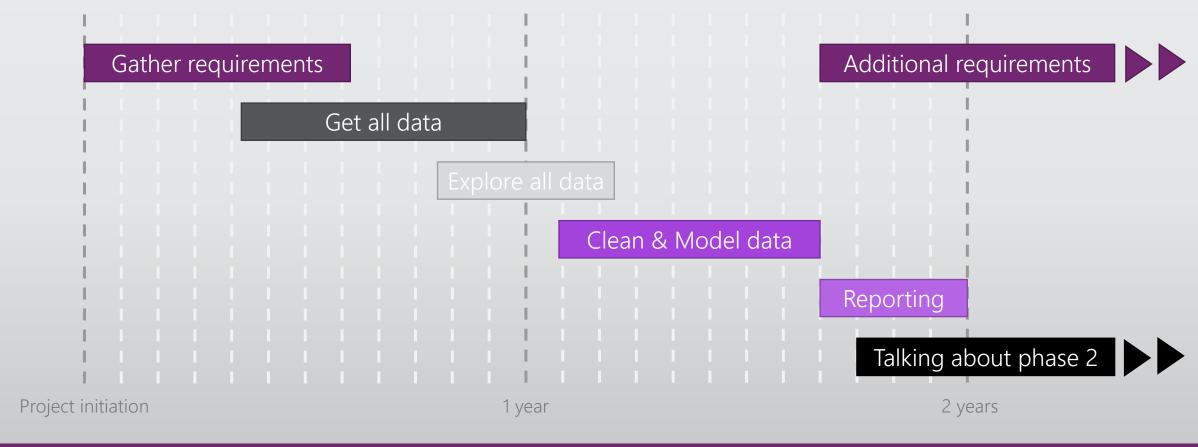


Busy era



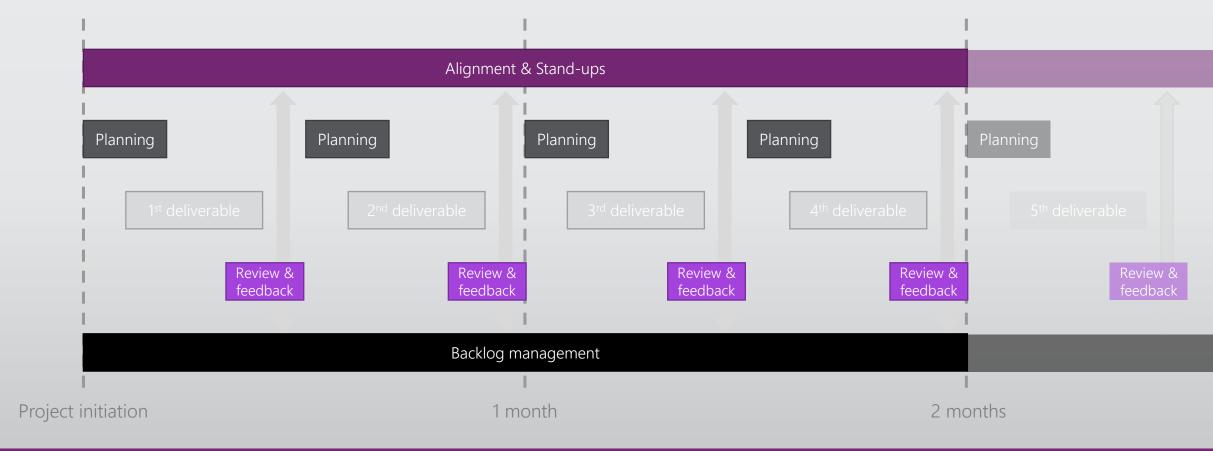


Classic approach

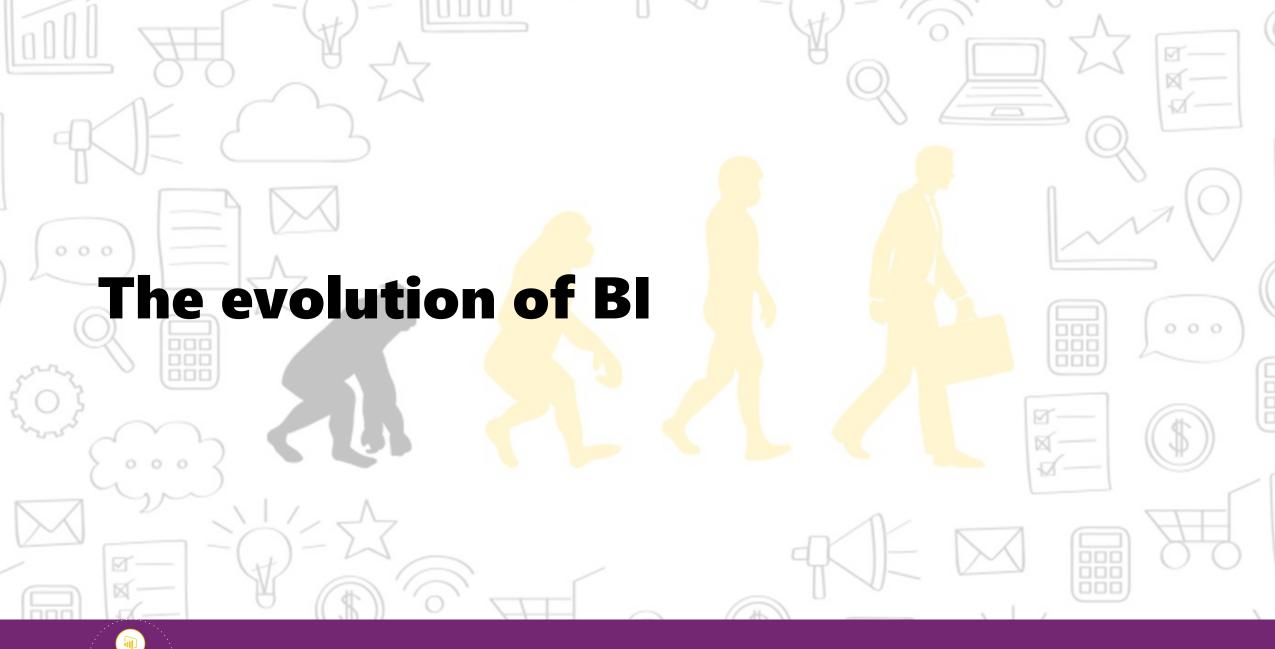




Start working agile









The evolution of BI

3rd wave End user BI

2nd wave Self-service BI Everyone Everyone

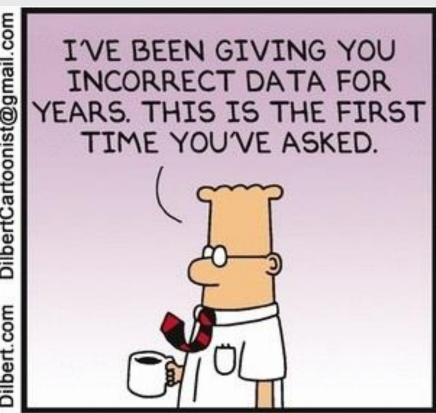


1st waveCorporate BI



Self-service vs End-user Bl







Governance Model





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 Business for reports elements of the solution IT for data, Governed by IT Business business for reports Usage scope of Data prep, modelling, Creation of (custom) Only use of content reports and dashboards reports and dashboards business



Deployment scenarios

Corporate BI

IT-Managed Self-Service BI Business-Led Self-Service Bl

Approach

Data sources

Ownership

Governed by

Usage scope of business



Published by IT

Fully sul 100%

IT-Driven

Only use of content

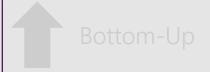


Only governed sources

IT for 5.0/d50
Business for reports

IT for data, business for reports

Creation of (custom) reports and dashboards



Any type of data source

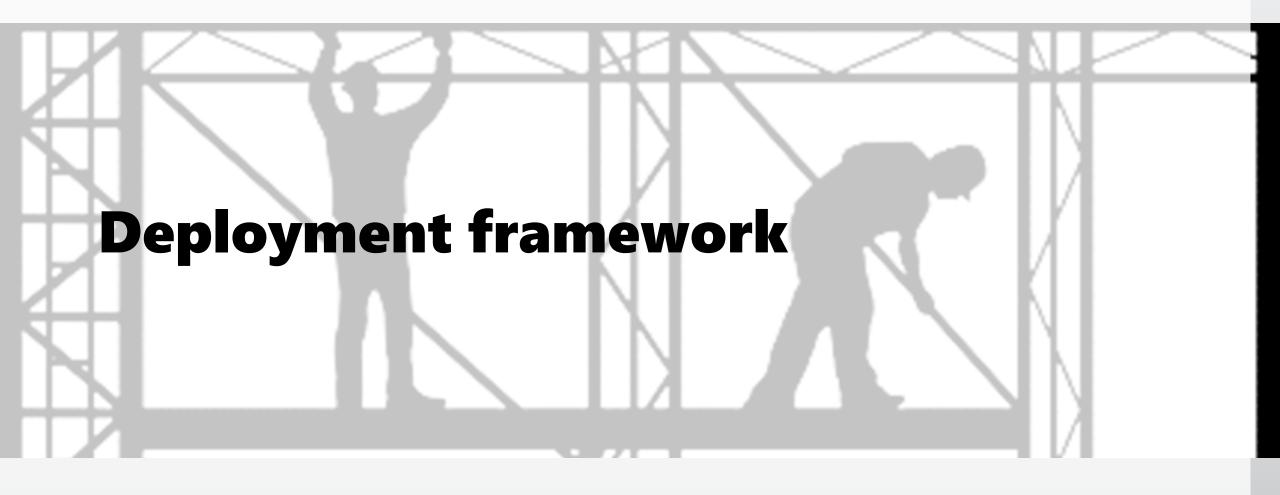
Busines 100%

Business Driven

Business

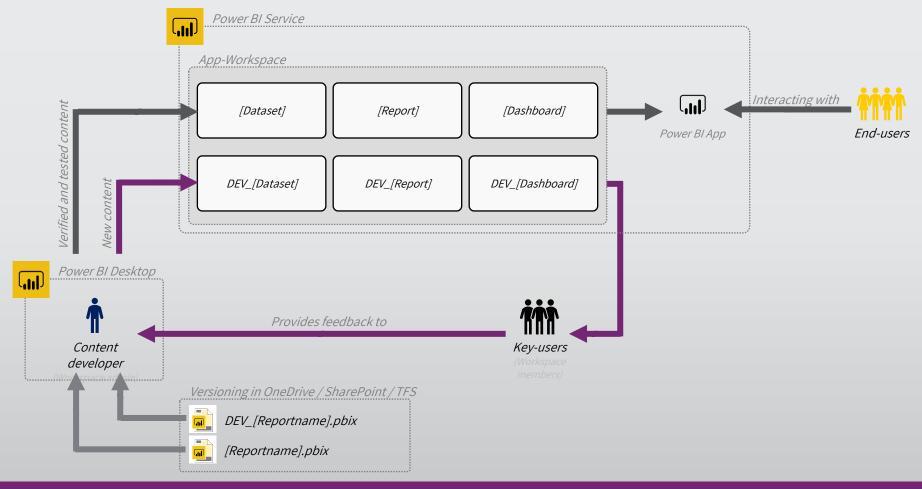
Data prep, modelling, reports and dashboards





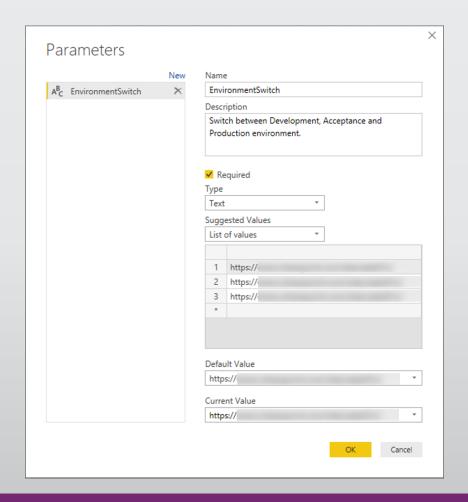


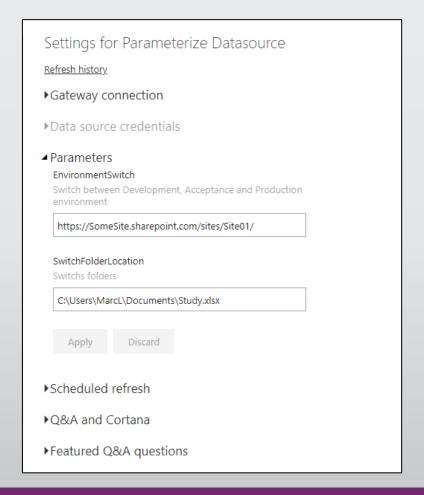
Deployment scenario (at small scale)





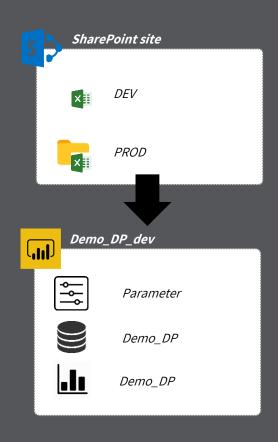
Deployment scenario (at small scale)





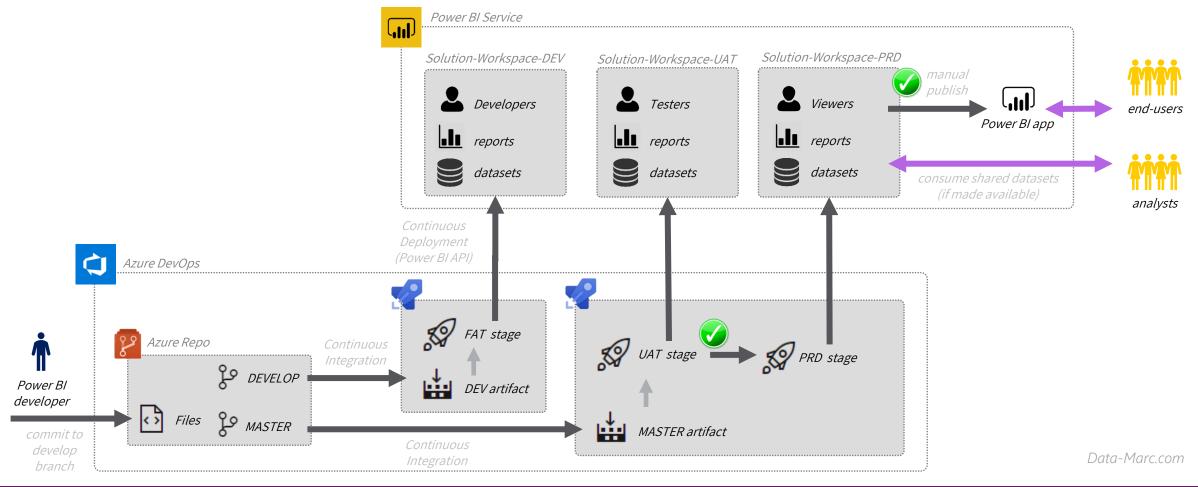


Example





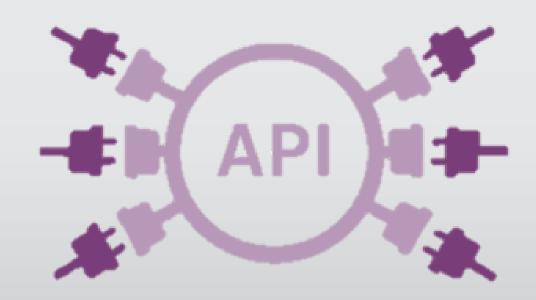
Deployment scenario (at large scale)





Deployment scenario (at large scale)



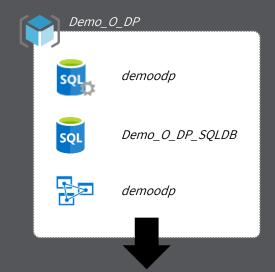


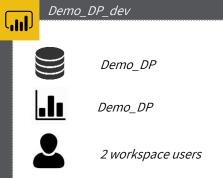


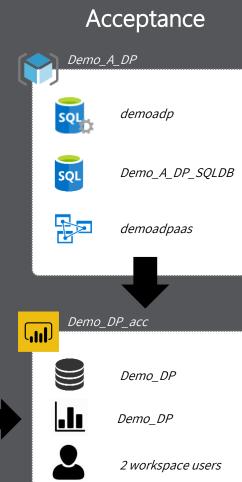
Power BI Service

Example

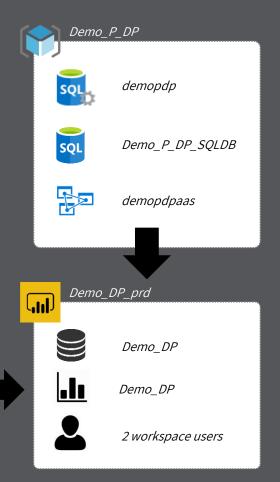
Development







Production





#Global Power Platform Bootcamp

Demo time!

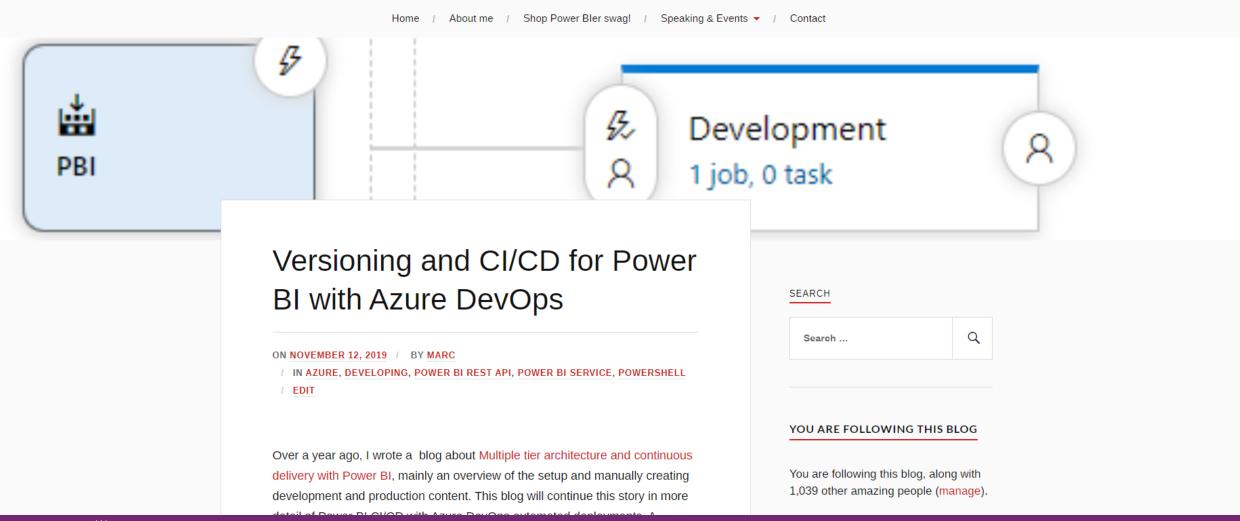
Because life is boring without risks





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Macaw Power BI Extensions

Macaw | ± 85 installs | ★★★★★ (0) | Free

Power BI release manager tasks for Azure DevOps.

Get it free

Overview Q & A Rating & Review

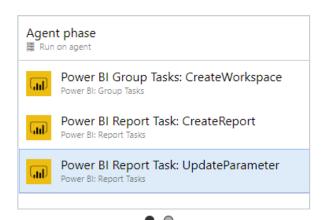
Macaw Power BI Extensions is a Build and Release Task for Azure Pipelines. With this tasks you can control your Power BI deployment in Azure DevOps

Actions that can be performed with this extension are:

- · Group tasks
 - Create or Update Power BI workspace
 - Delete Power BI workspace
 - Write all workspace info to JSON logfile
- Report tasks
 - o Create or Update Power BI Report
 - O 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



Categories

Azure Pipelines

Works with

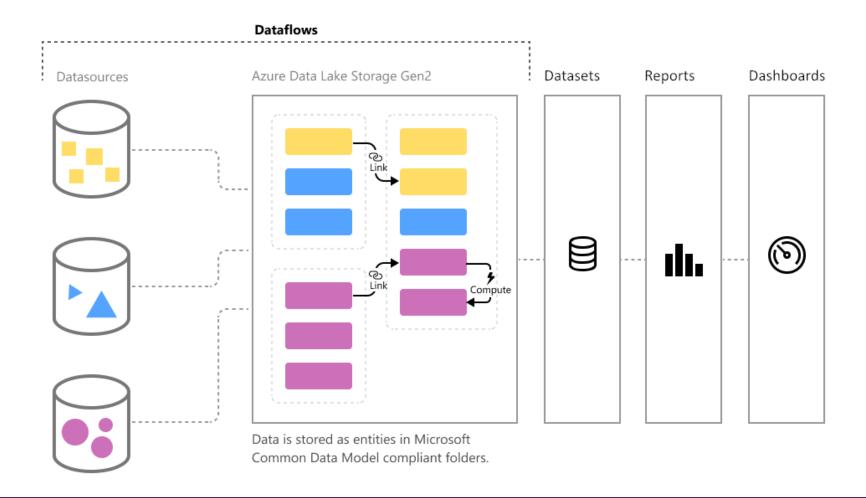
Azure DevOps Services Azure DevOps Server

Resources

Liconco



But what about dataflows?





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Dashboards Reports Workbooks Datasets Dataflows

/ EDIT

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, **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

SEARCH		
Search	Q	
OU ARE FOLLOWING	THIS BLOG	
YOU ARE FOLLOWING	THIS BLOG	
You are following this blo	og, along with	
You are following this blo	og, along with	
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You are following this blo	og, along with	
You are following this blo	og, along with	





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 releasin to users

Share with your users

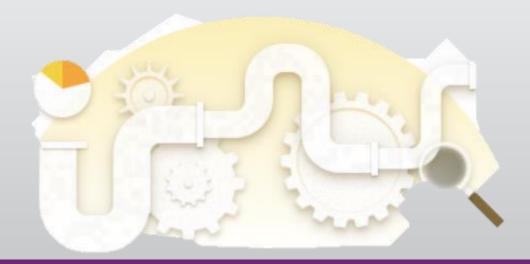
Deploy your content to production and share it with your organization

Create a pipeline

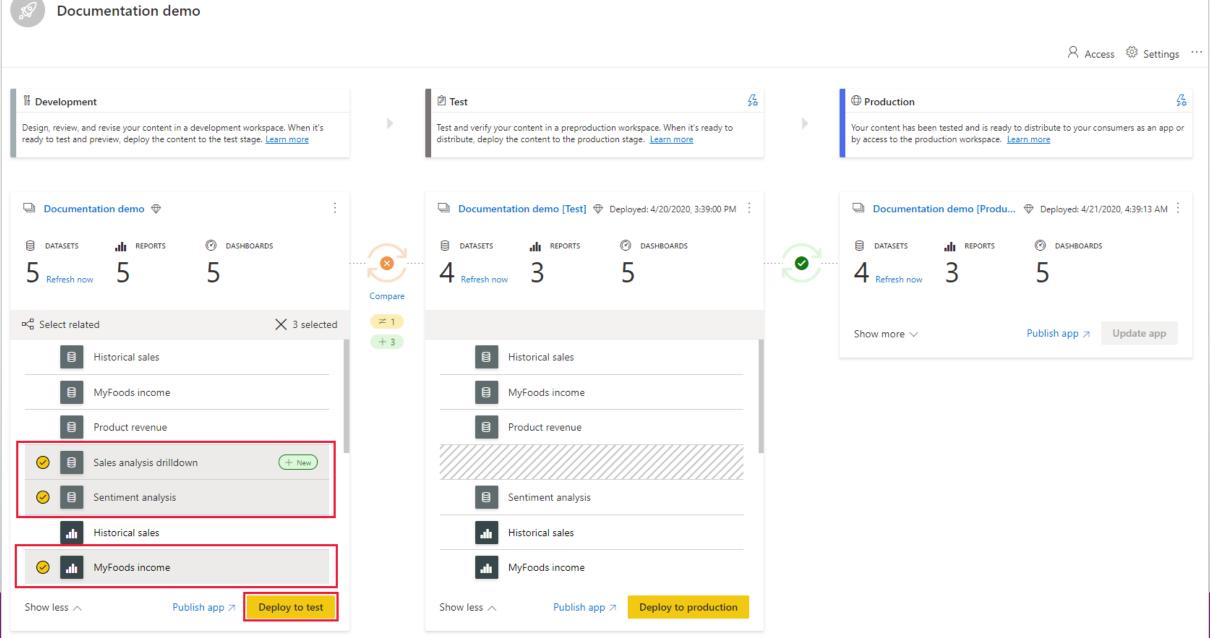


How it works

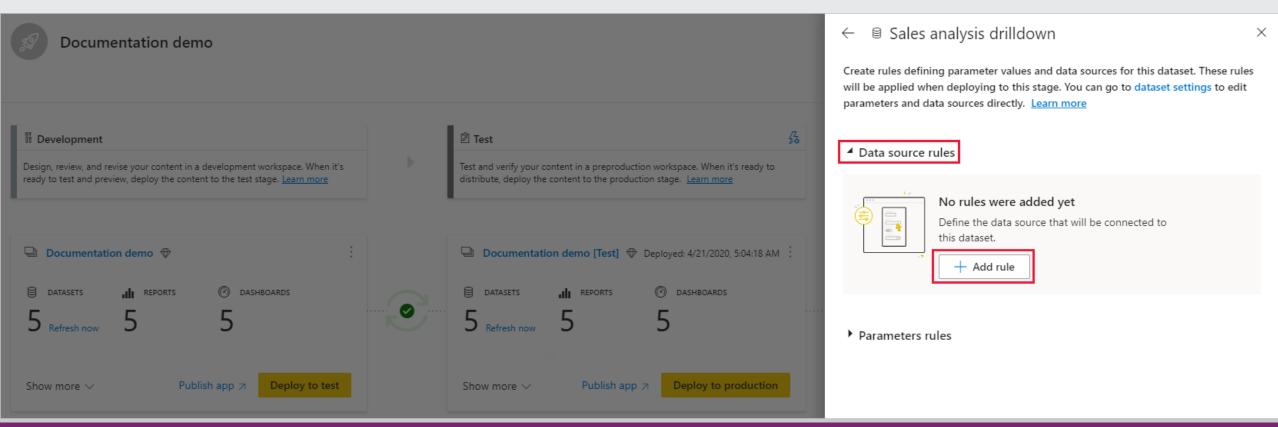
- Meta data deployment
- Incremental deployment
- Requires Premium! (must be P-sku in production!)
- No dataflow support (yet)
- No versioning (yet?)







Deployment settings





Power BI Deployment Pipelines



Working with multiple users is a native functionality



Meta data and incremental deployments is default



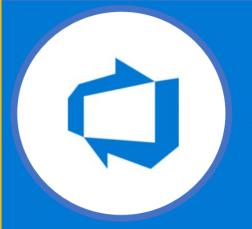
Requires Power BI Premium



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	-



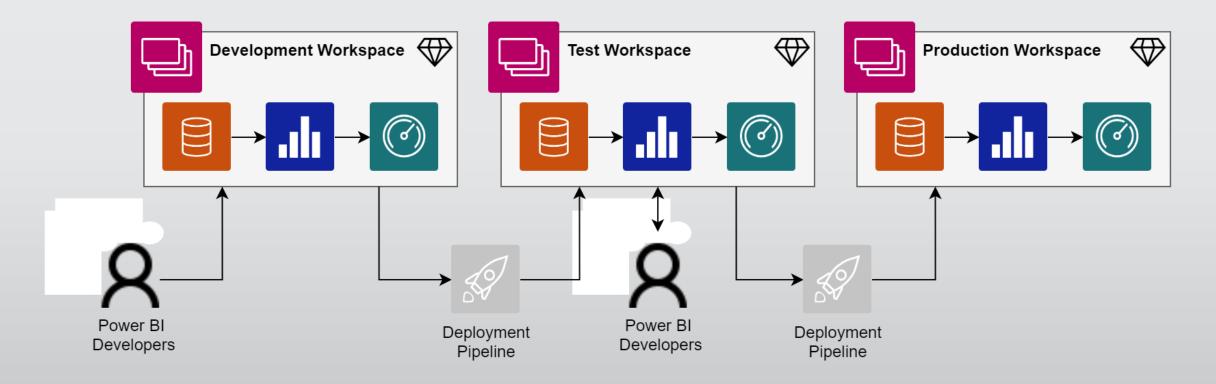
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Shop Power Bler swag! / Speaking & Events ▼ Why you should care about Power BI Deployment Pipelines Q Search ... ON JULY 9, 2020 | BY MARC | IN POWER BI PREMIUM, POWER BI SERVICE After a short holiday break, it is time for a new blog post! This time 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

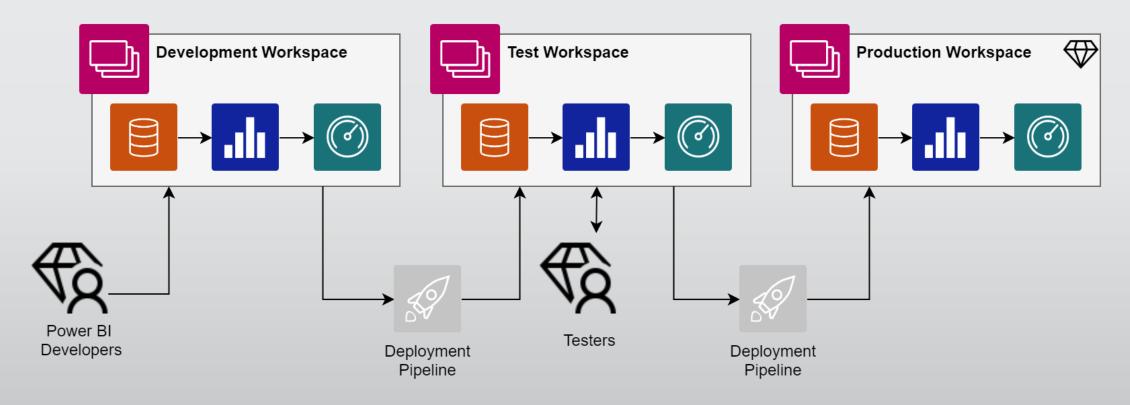
is an important part of your landscape and a comparison to other options you

Default setup





Possible option to lower capacity allocation





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Shop Power Bler swag! Speaking & Events ▼ About me Premii Leverage Power BI Deployment Pipelines with Premium per SEARCH user licensing Q Search ... ON OCTOBER 5, 2020 / BY MARC / IN DEVELOPING, POWER BI PREMIUM, POWER BI SERVICE **FOLLOW BLOG VIA EMAIL** Enter your email address to follow this At Microsoft Ignite, there were two really exciting announcements when it blog and receive notifications of new comes to enterprise features for Power BI. Both directly took my attention, as posts by email. well as for many others. Obviously, the first one is Power BI Premium per user (PPU) licensing. Secondly, Deployment Pipelines reached General Availability! Join 1,391 other followers Two super important features for enterprises and the maturity of Power BI! Let's Enter your email address have a look at both announcements and how these announcements together

will have a massive impact!

Roadmap

Deployment pipelines - dataflows support

02/03/2021 • 2 minutes to read • 💿 🌍



(i) Important

Some of the functionality described in this release plan has not been released. Delivery timelines may change and projected functionality may not be released (see Microsoft policy \(\mathbb{I}\)). Learn more: What's new and planned

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Jun 2021	-

Feature details

Dataflows is an essential part of the Power BI data pipeline. In this feature, we'll add additional capabilities for managing dataflows, including:



Roadmap

Deployment pipelines - automation and Azure DevOps integration

09/16/2020 • 2 minutes to read • 💿



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Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Mar 2021	-

Business value



Recap

- Professionalize your deployment process
- Easy roll-back if needed with automated versioning
- Roll-out more than only Power BI in one go using DevOps!
- Deployment pipelines is worth using! But not complete yet.
- XMLA read/write is even more awesome!
- The future looks promising...





Thanks for attending!

Https://data-marc.com/?s=Deployment



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