

Dé Managed Services Provider

Wortell levert toekomstgerichte managed services die uw organisatie versterken met de kracht van Microsoft-technologie. Sinds 1997 bouwen wij aan duurzame partnerships door strategisch inzicht en proactieve ondersteuning, met uw bedrijfscontinuïteit en innovatie als onze prioriteit.

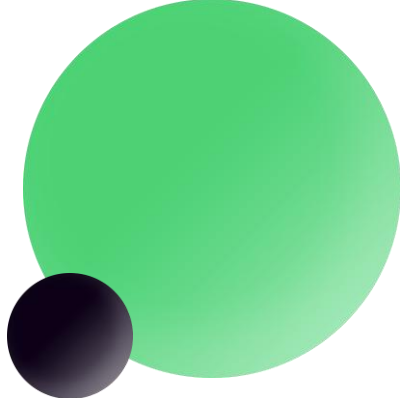
Ontdek hoe we dat doen

Wie hebben we al geholpen

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Welkom





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Over Wortell

Zin om meer te leren?

Opleiding Data Engineering

- 5 weken (start morgen!), 1 dag per week
- Yours truly
- Bouw je eigen DE oplossing in Fabric, Snowflake of Databricks!

Power BI (PL-300)

- 3 weken, 1 dag per week
- Incl. examenvoucher
- Start: maandag aanstaande

Next Step for Data Professionals

- 8 maanden
- Groei naar volgende stap in je carrière
- Bijdragen aan team- en organisatiedoelen
- Focus: duurzaam inzetbaar en groei

Unlimited Learning

- € 325 per maand
- Alle trainingen in ons open rooster

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Wat we doen ▾

Hoe wij werken. ▾

 Zoek op Wortell...

Wie wij zijn. ▾

Kennis. ▾

Contact



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Ontdek hoe we dat doen

Wie hebben we al geholpen





Fabric Pipelines vs ...



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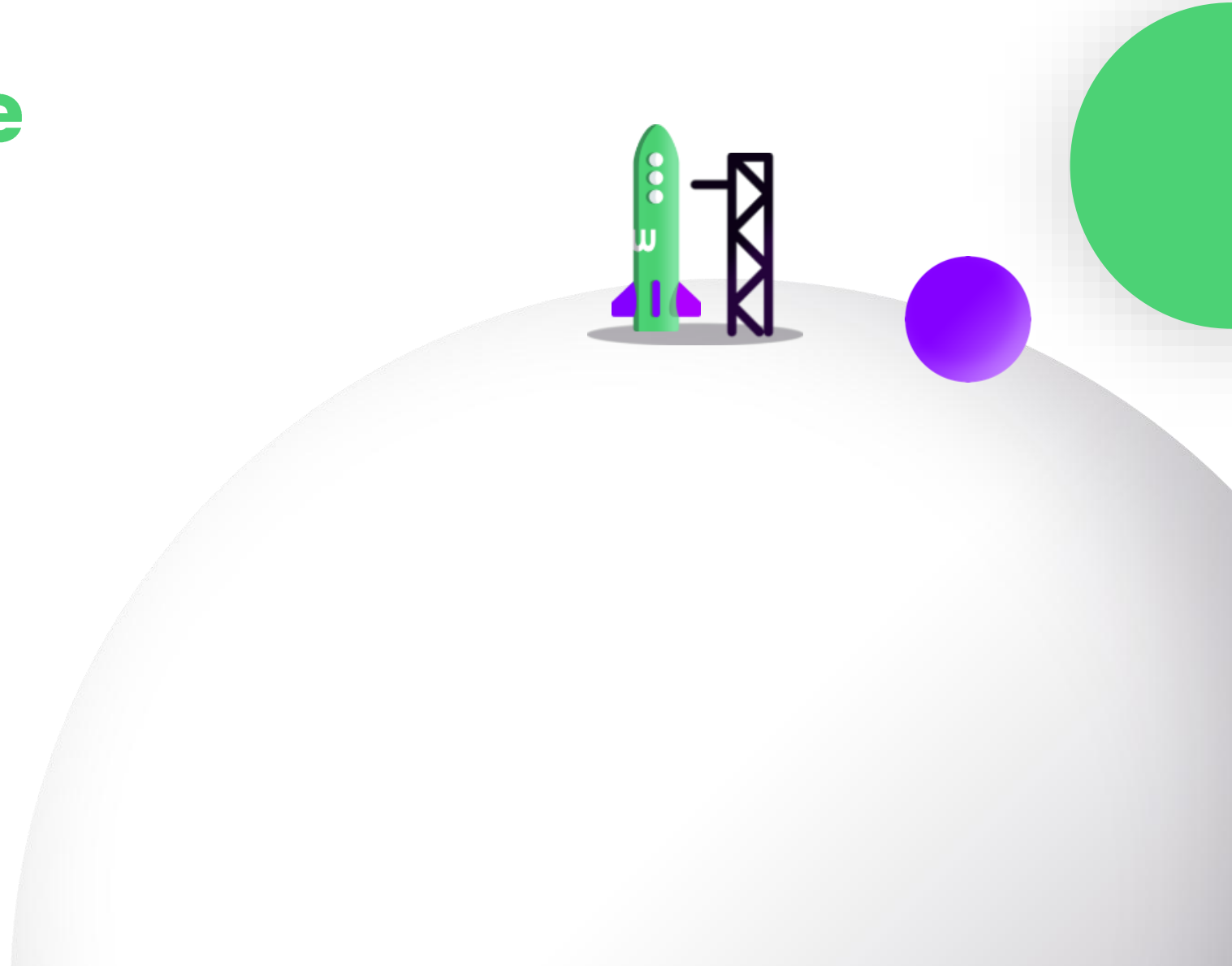


Agenda

Waar gaan we het vandaag over hebben

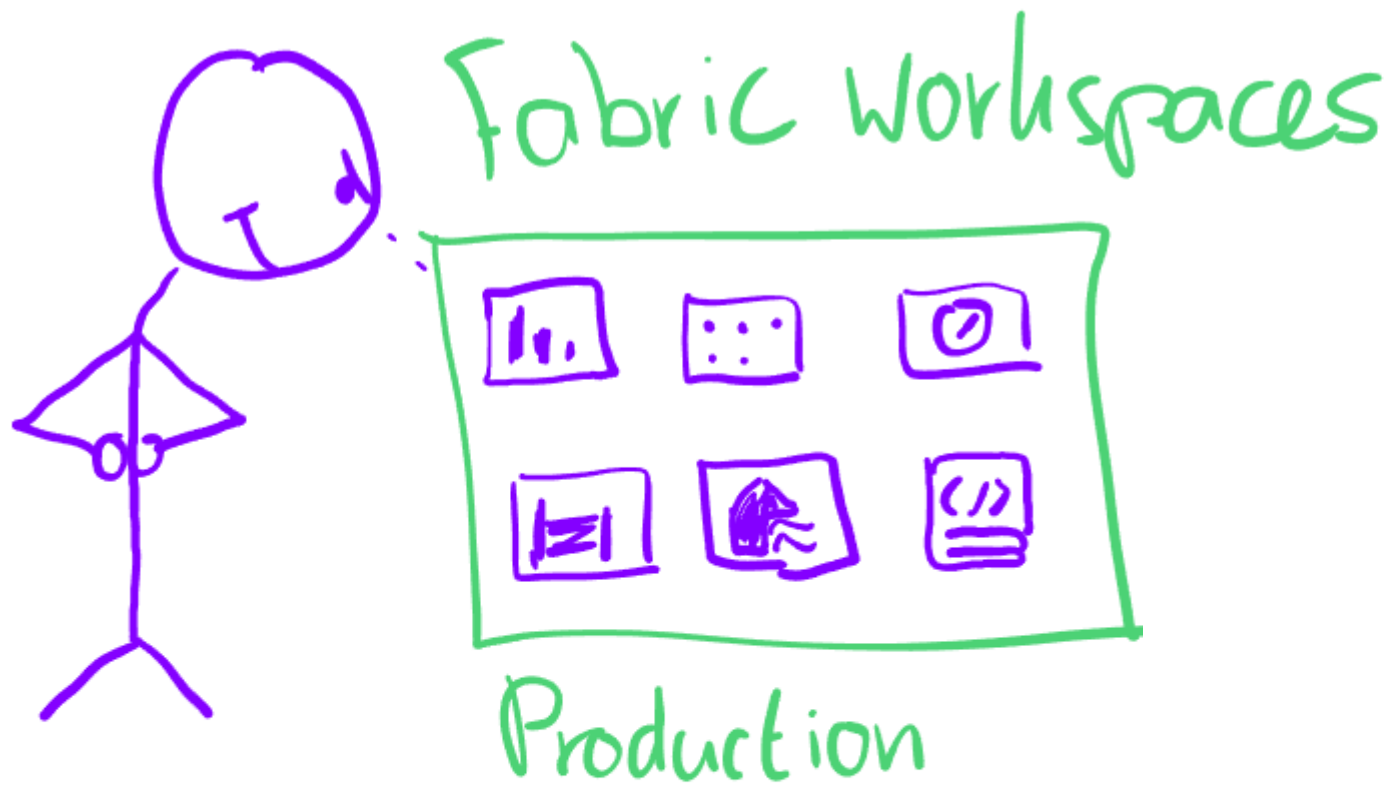
- How to achieve Lifecycle Management
- Deployment Pipelines: Current State
 - Setup
 - The place of Git
 - Managing multiple environments
 - Deployment Rules
 - Environment Integration
 - REST API's
- Other ways to deploy to Fabric
 - Azure DevOps
 - GitHub Actions
 - Possibilities for GitOps?
- Q&A

How to achieve Lifecycle Management



Fabric Workspaces





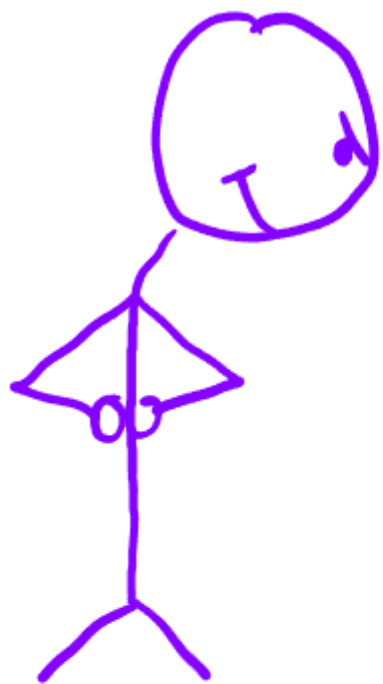


Fabric Workspaces

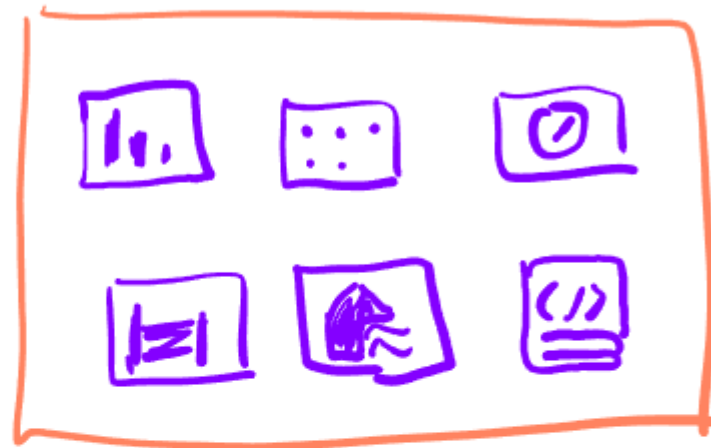
Production



Fabric Workspaces



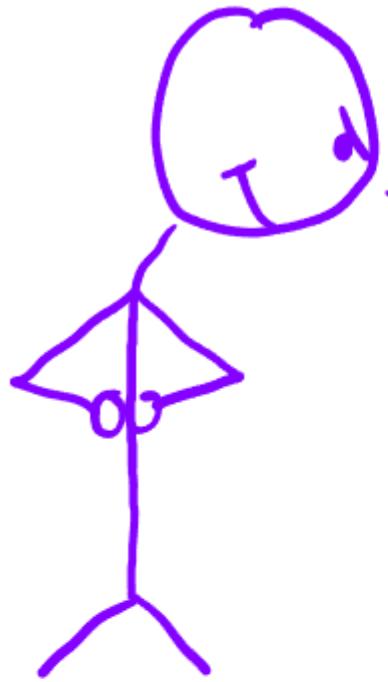
Production



Dev

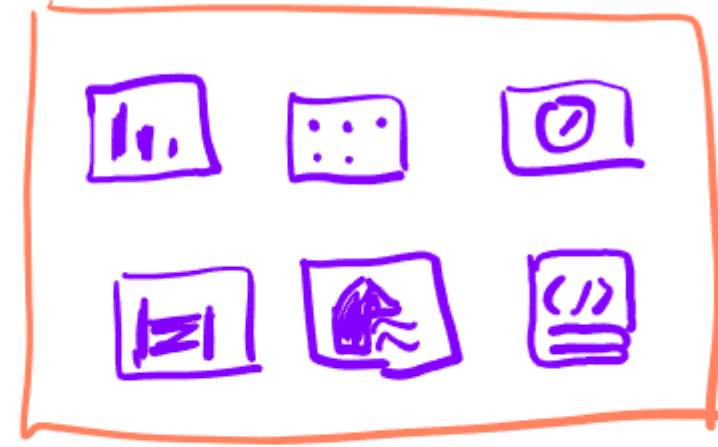


Fabric Workspaces



Production

(Test,
Acc,
UAT,
Feat1,
Feat2,
...)



Dev





Deployment Pipelines.

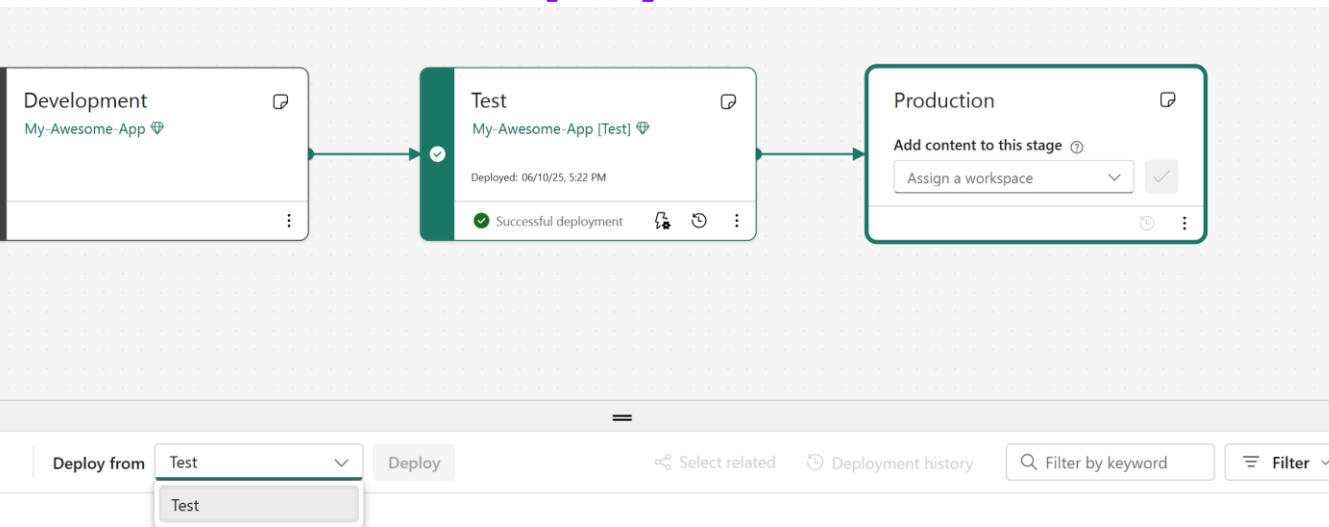
9 stages max

- Select which one is “public” (= production)

After initial setup: stages fixed



Linear deployment



Workspace-Pipeline stage 1 : 1

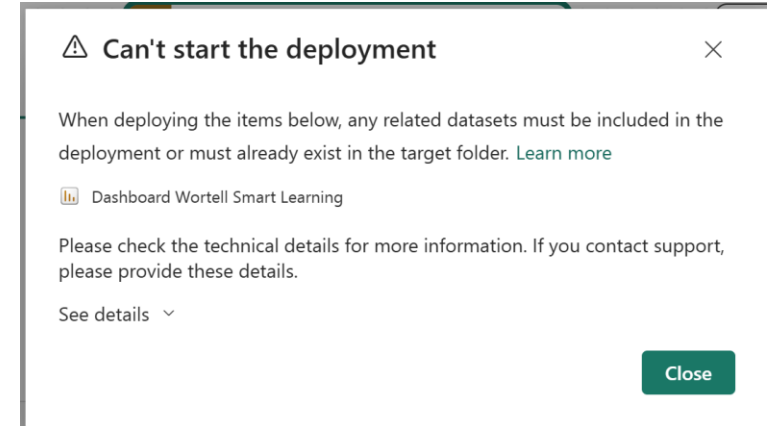
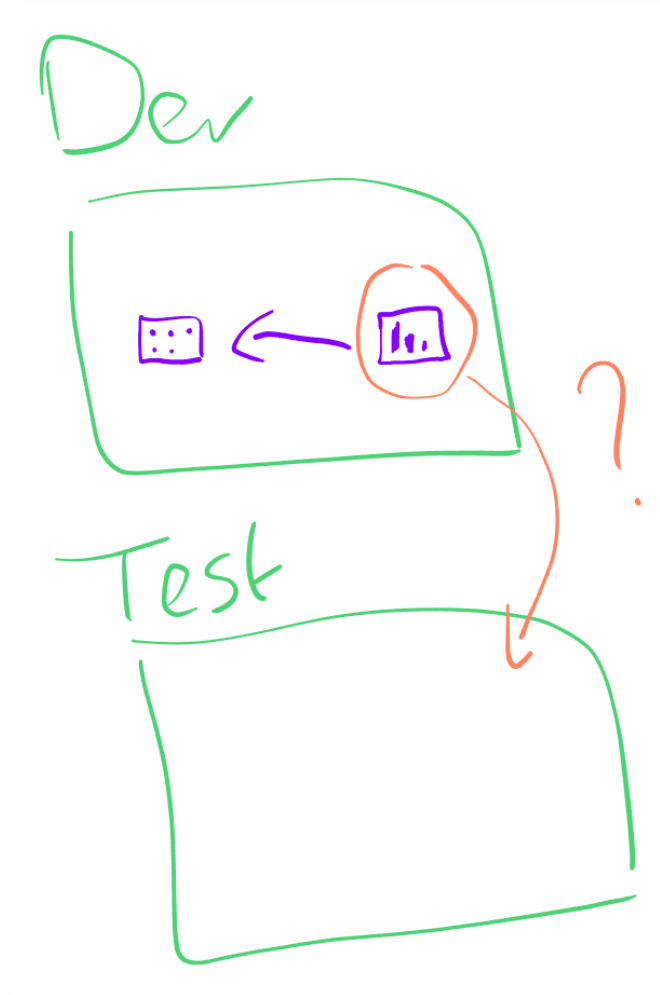
- Workspaces can be created on-the-fly
- ... if you have permissions in the capacity (or on PPU)

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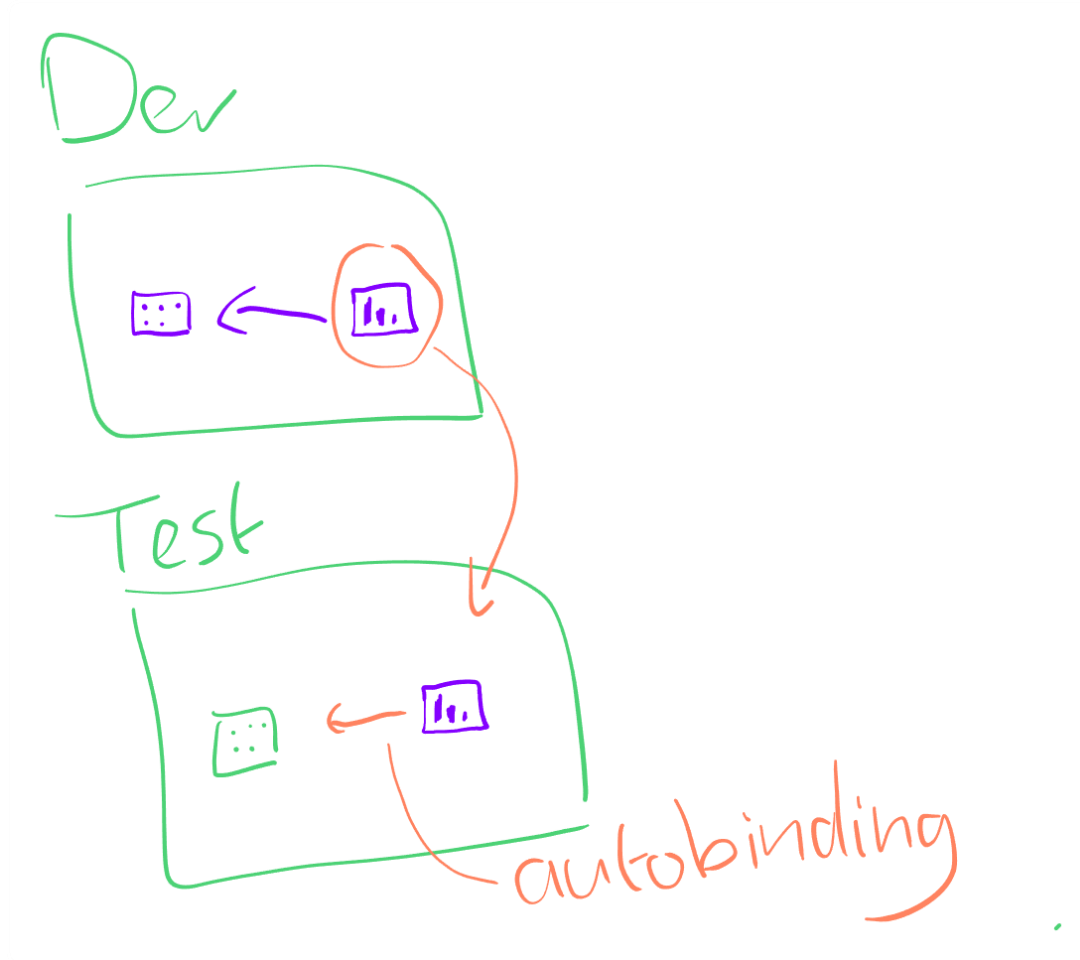
What happens during deployment?

- Workspace is created (first deployment)
- Supported, **selected** items from source are copied
 - Existing content is overwritten
 - Identified using the *connection* to the *parent item*
 - ID & URL remain unchanged
 - New items are copied
- Only

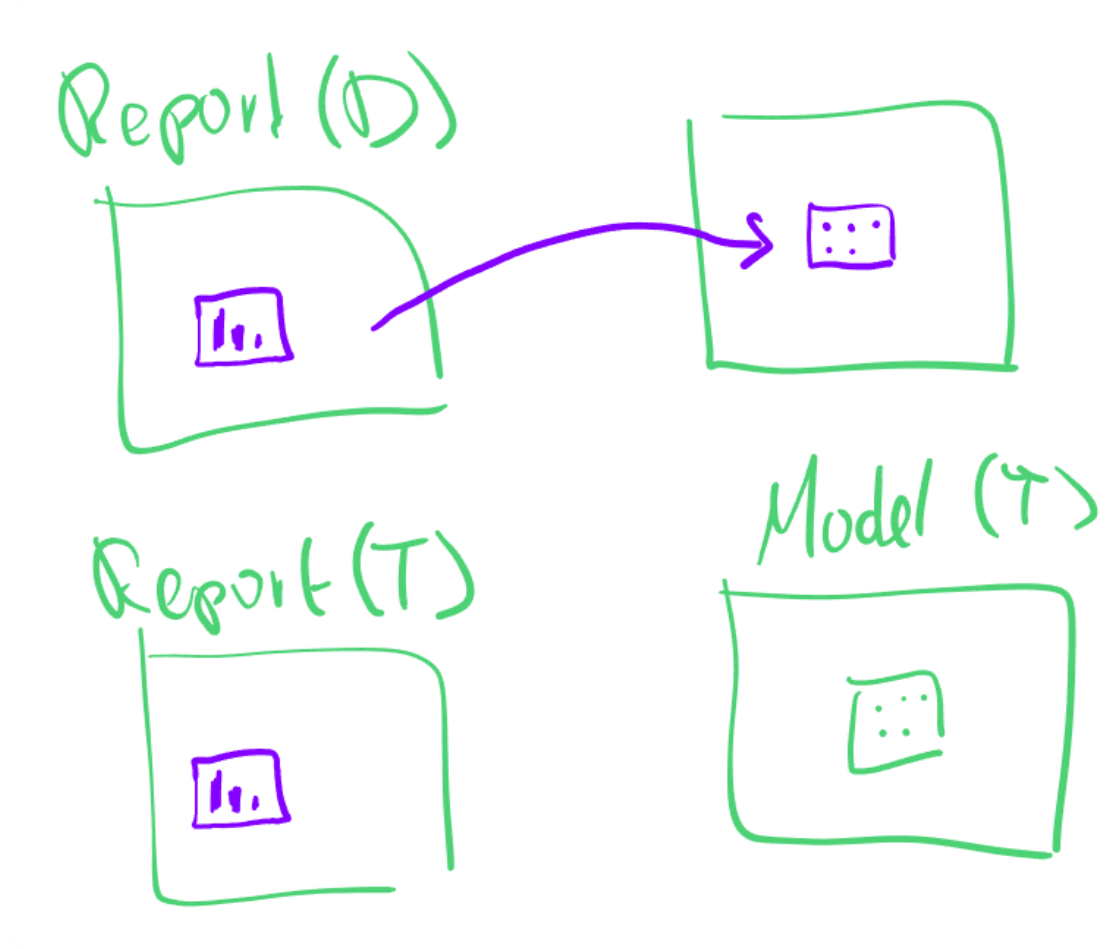
What about ... dependencies?



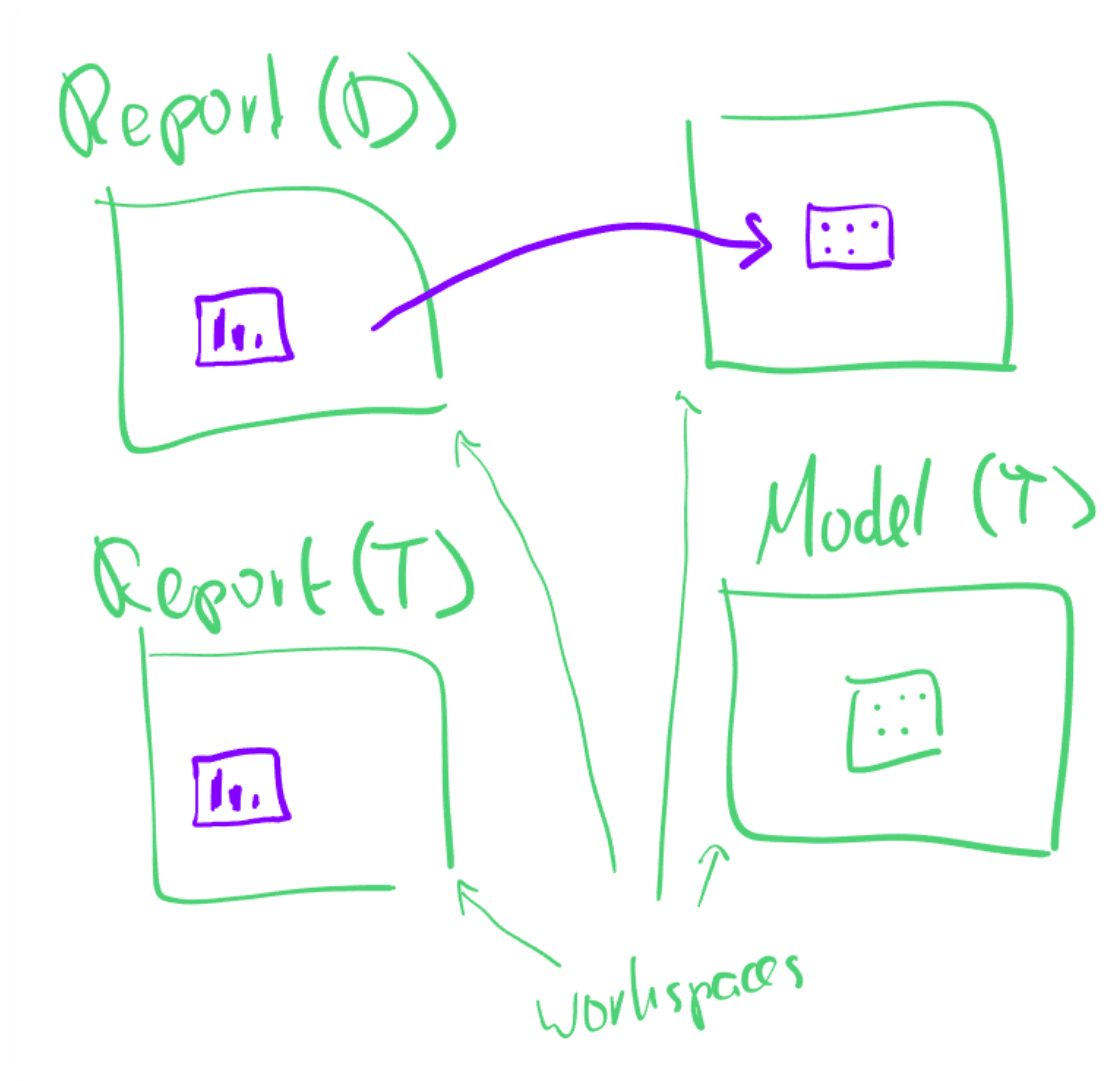
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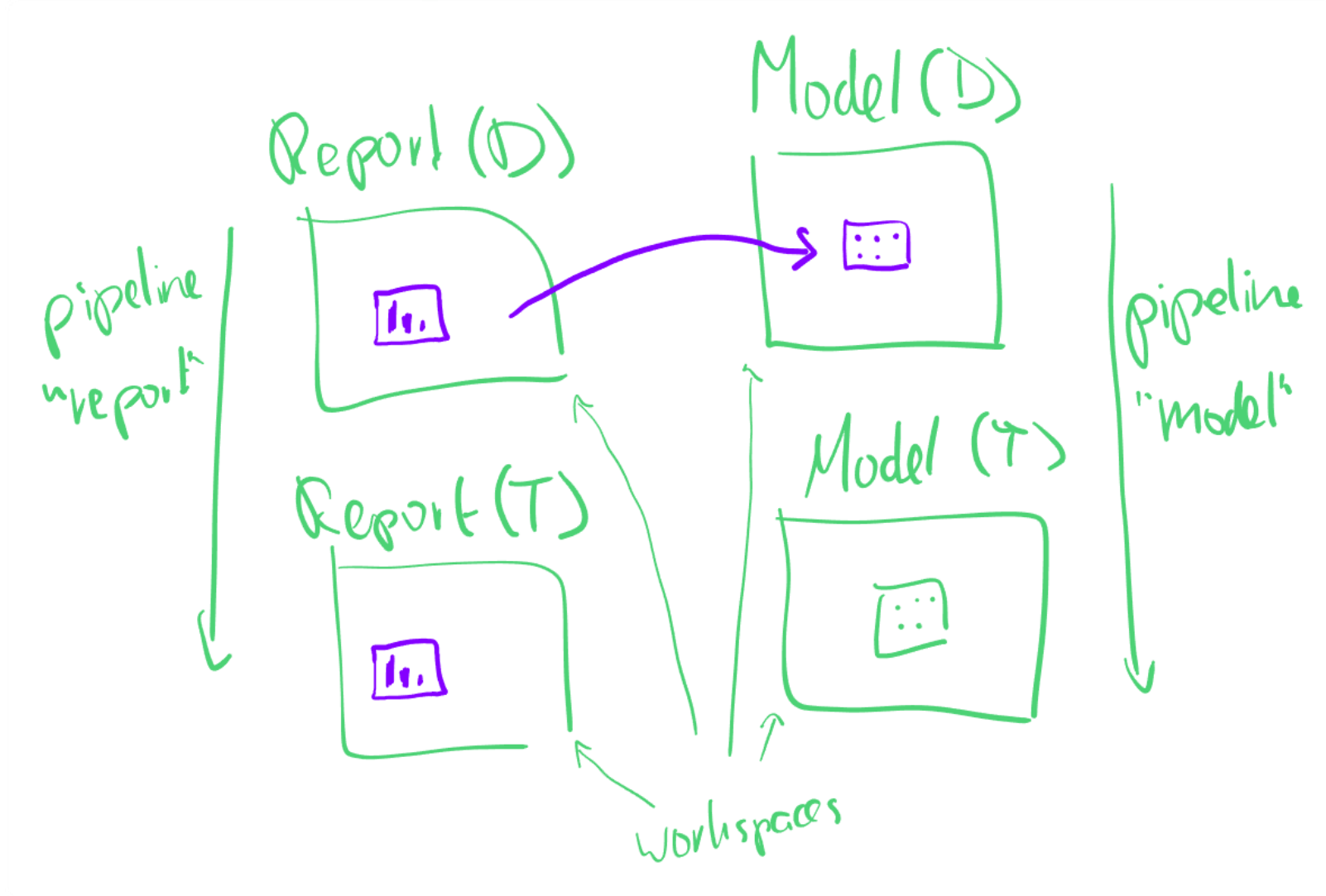
... cross-workspace?



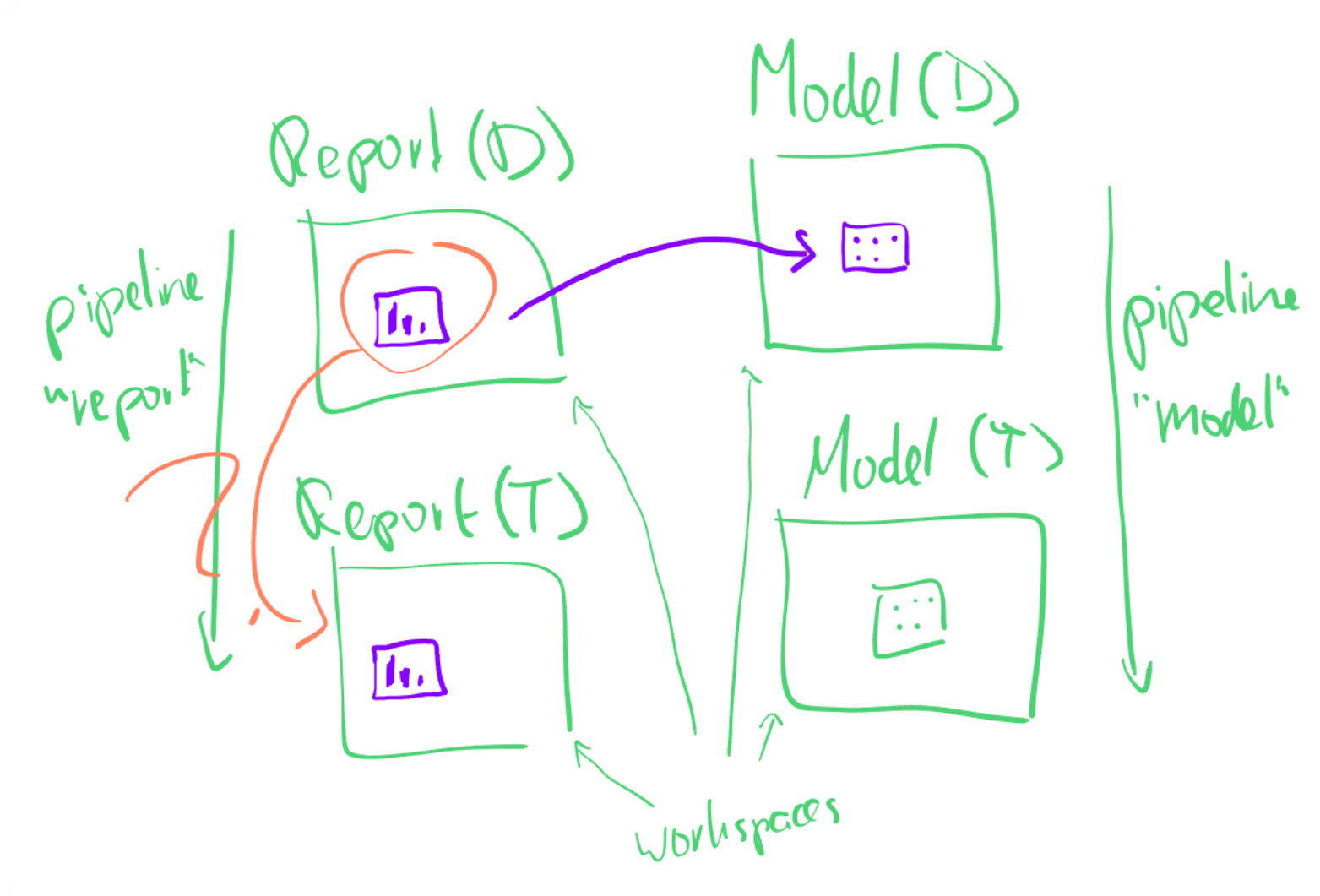
... cross-workspace?



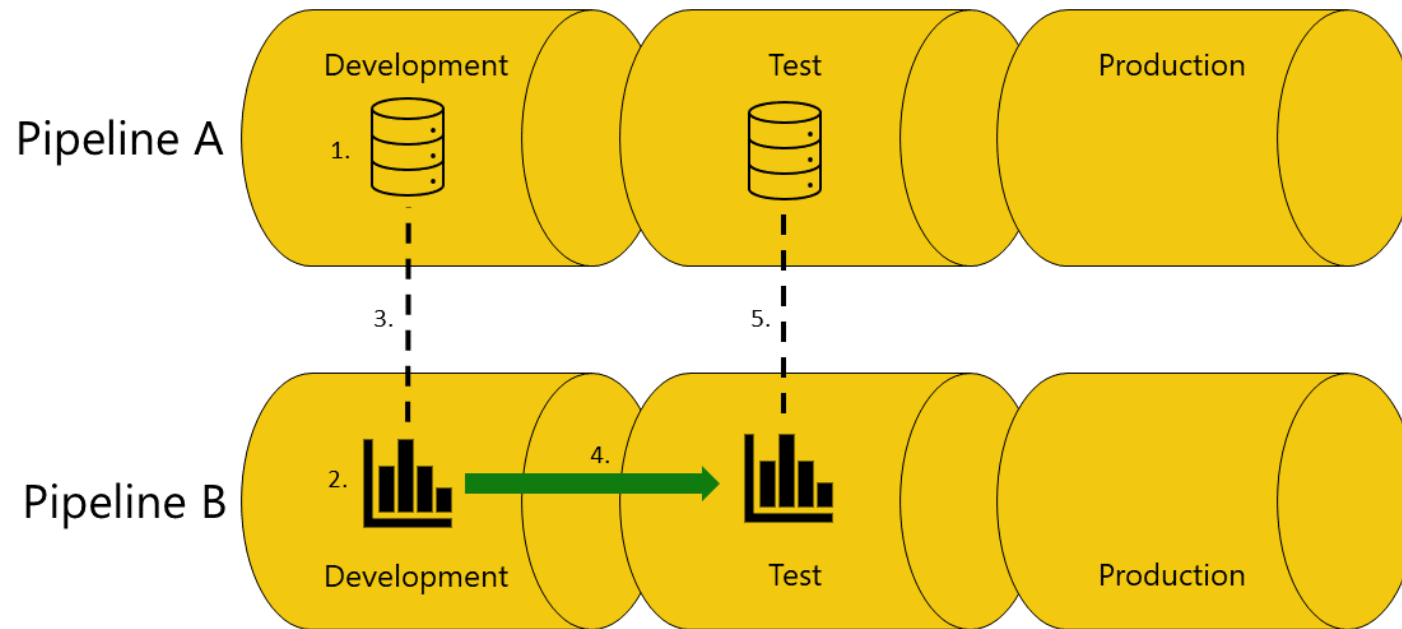
... cross-workspace?



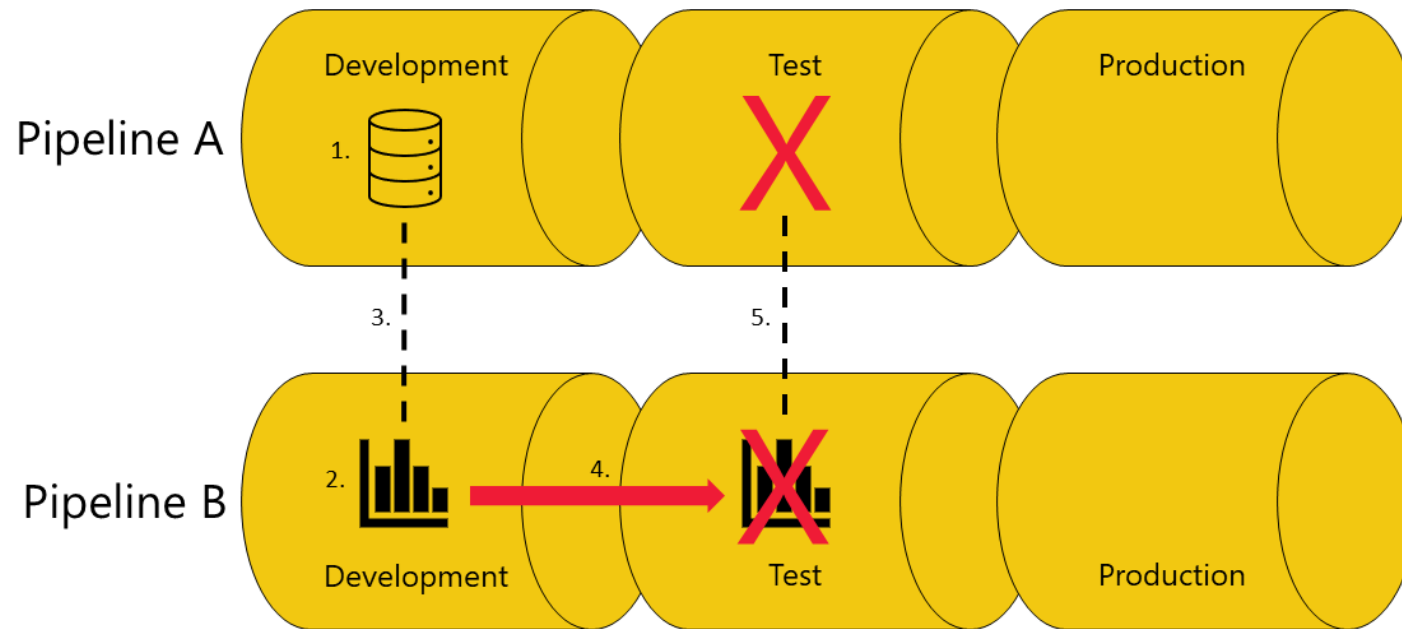
... cross-workspace?



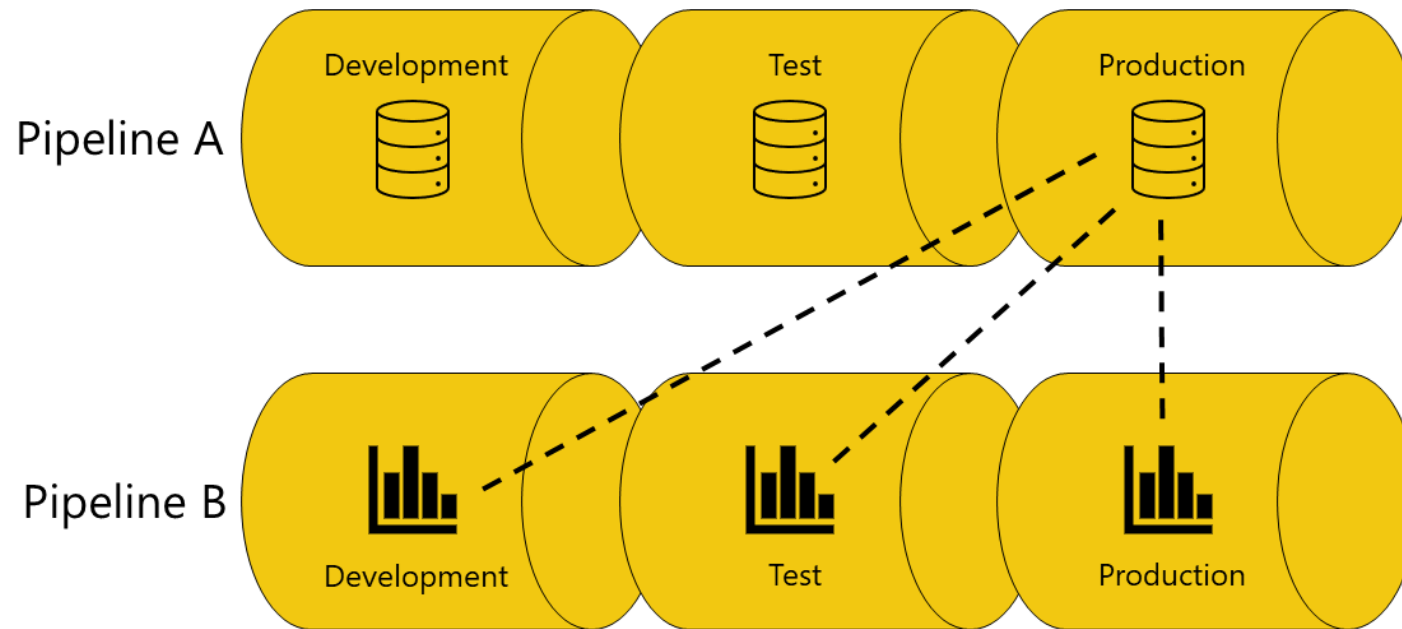
... cross-workspace?



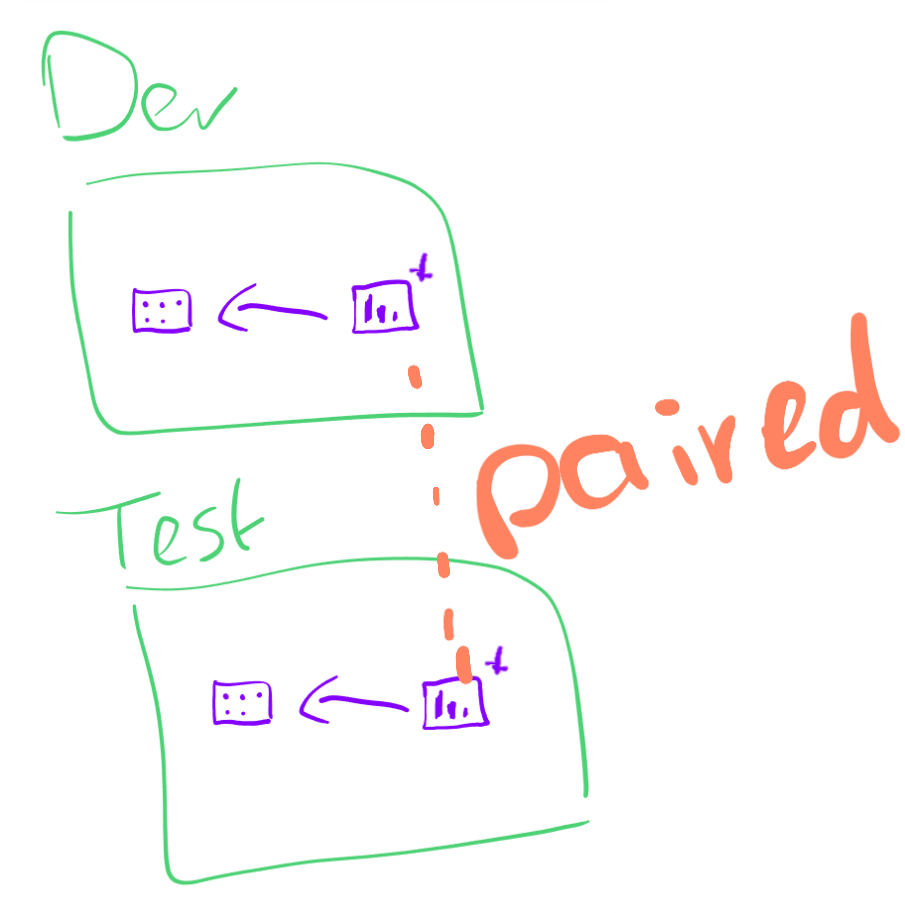
... cross-workspace?



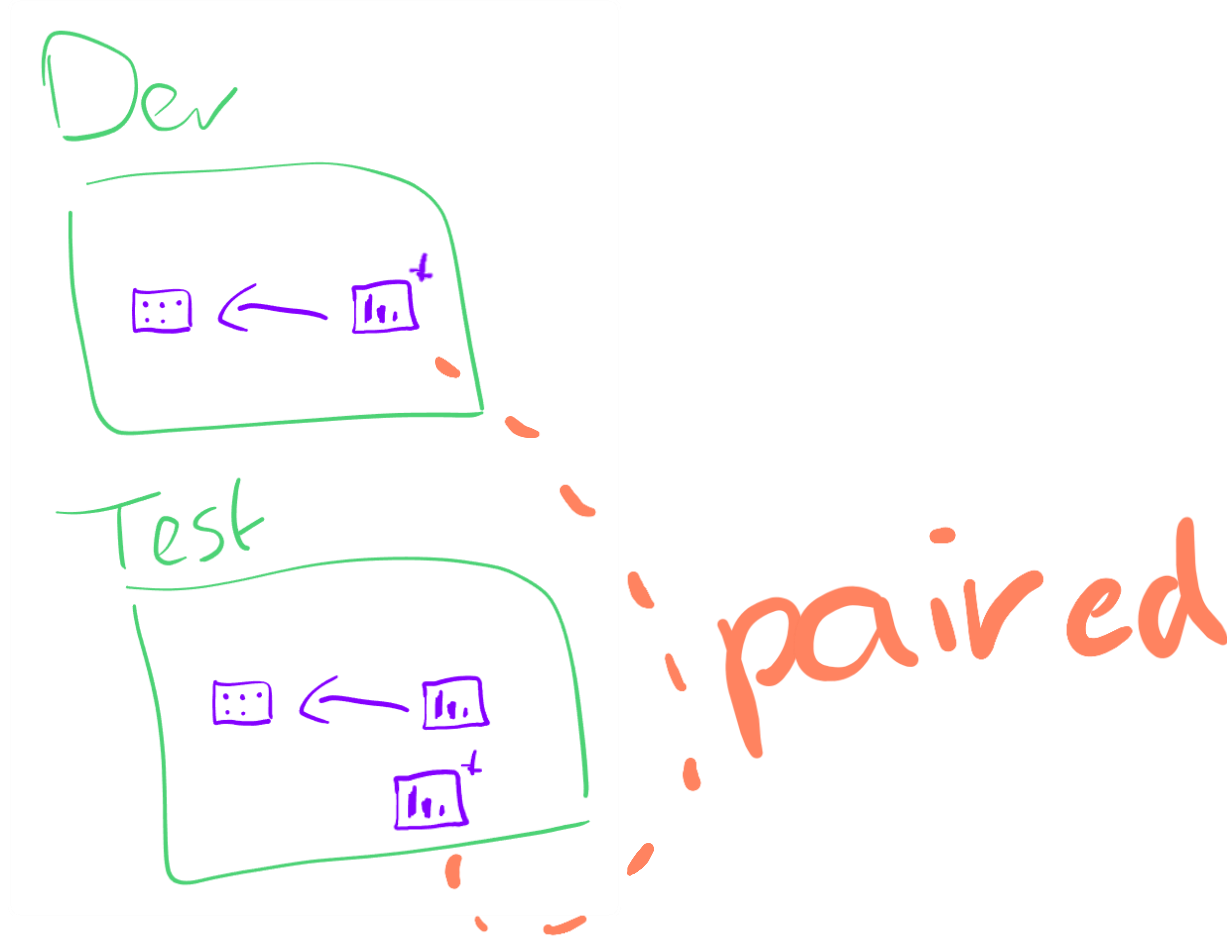
No autobinding?



One more thing: pairing...



One more thing: pairing...



What happens to...

Items (artefacts)

- Reports
- Semantic Models
- Dataflows
- Etc.

Security & Access control

- RLS
- Workspace permissions
- Sensitivity labels

Data & Connections

- Lakehouse tables
- Datamarts
- SQL databases
- Etc.

Environment configuration

- Spark compute
- Library dependencies
- Environment variables

How to handle...

Items (artefacts)

- Reports
- Semantic Models
- Dataflows
- Etc.

Data & Connections

Security & Access control

Environment configuration

Deployment Pipelines

- Handle binding
- Move across stages

Version control

- Bind “Dev” stage to Git -> change tracking

How to handle...

Items (artefacts)

Data & Connections

- Lakehouse tables
- Datamarts
- SQL databases
- API endpoints
- Etc.

Security & Access control

Environment configuration

Deployment Pipelines

- Autobinding
- Manual binding

Deployment Rules

- Wait, what?!

What are Deployment Rules?

In general

- Stage-specific configuration
- Different databases
- Different query parameters
- Defined on an artefact (e.g. semantic model)

Parameter rule

Parameter value

Data Source Rule

Data source connection

Default Lakehouse rule

Default Lakehouse, only for **Notebook**

What are Deployment Rules?

The screenshot shows the Wortell Smart Learning interface. On the left, a card titled "Test" for "My-Awesome-App [Test]" shows a "Failed deployment" status. A red circle highlights a gear icon with a lightning bolt, which opens a modal titled "Dashboard Wortell Smart Learning".

The modal displays "Semantic model deployment rules" and a section for "Data source rules". It includes a "From" field with the value "courses;wortellsmartlearning.c" and a "To" field with the value "Other". Below these fields, the "Database" is set to "courses" and the "Server" is set to "wortellsmartlearning.database.window". A "+ Add rule" button is at the bottom of the modal.

Test
My-Awesome-App [Test]
Deployed: 06/11/25, 8:38 AM
Failed deployment

← Dashboard Wortell Smart Learning
Semantic model deployment rules

Set deployment rules
Create rules to run when deploying this item. [Learn more](#)

Data source rules

Define the data source that will be connected to this item. [Learn more](#)

There may be connections to other dataflows that aren't displayed here. During deployment we'll update these connections for you. You can see all the connections and impacted data sources in the lineage view.

From To

courses;wortellsmartlearning.c Other

Database
courses

Server
wortellsmartlearning.database.window

+ Add rule

Parameter rules

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How to handle...

Items (artefacts)

Data & Connections

- Lakehouse tables
- Datamarts
- SQL databases
- API endpoints
- Etc.

Security & Access control



Environment configuration

Deployment Pipelines


- Autobinding
- Manual binding


Deployment Rules


- Change connection strings
- Change parameter values

 Data source rules 

Define the data source that will be connected to this item. [Learn more](#)

 There may be connections to other dataflows that aren't displayed here. During deployment we'll update these connections for you. You can see all the connections and impacted data sources in the lineage view.

From	To
<input type="text" value="courses;wortellsmartlearning.c"/>	<input data-bbox="1895 1103 2226 1146" type="text" value="Other"/> 
	Database <input type="text" value="courses"/>
	Server <input type="text" value="wortellsmartlearning.database.window"/>

 Add rule

How to handle...

Items (artefacts)

Data & Connections

- Lakehouse tables
- Datamarts
- SQL databases
- API endpoints
- Etc.

Security & Access control

Environment configuration

Deployment Pipelines

- Autobinding
- Manual binding

Deployment Rules

- Change connection strings
- Change parameter values

What about Key Vault?

- ... support is underway!
- Fabric **variables** will support this in the future
- .. Wait, what?!

Variables


- Item in Fabric
- Stage-specific values
- Centrally set
- Cc ADO Libraries / Variable Groups
- Can be used in
 - Data Pipelines
 - Connections
 - Table Names
 - Parameters
 - Notebooks
 - Connection strings
 - Default lakehouses
 - Runtime parameters
 - Lakehouse shortcuts

Variables

 Save |  New variable |  Delete variable |  Add value set

Variables_1

Variables

<input type="checkbox"/>	Name *	Note	Type ⓘ
<input type="checkbox"/>	<input type="text" value="Table"/>		<input type="text" value="String"/> 

Default value set *


Active

...

Alternative value sets

Test *

...



Prod *

...



Variables (in Git)

The screenshot displays a Git repository interface. On the left, the file explorer shows the repository structure: 2025-06-11-pbigdemo, Dashboard Wortell Smart Learning.Report, Dashboard Wortell Smart Learning.Semanti, Dev.Environment, pipeline1.DataPipeline, and Variables_1.VariableLibrary. The Variables_1.VariableLibrary folder is expanded, showing valueSets, .platform, settings.json, and variables.json (which is selected). At the bottom is README.md.

The right pane shows the content of variables.json, which is a JSON file defining a variable named 'Table' with a string type and the value 'courses_dev'. The file is titled 'variables.json' and has tabs for Contents, History, Compare, and Blame. The code is as follows:

```
1 {  
2   "$schema": "https://developer.microsoft.com/json-schemas/  
3   "variables": [  
4     {  
5       "name": "Table",  
6       "note": "",  
7       "type": "String",  
8       "value": "courses_dev"  
9     }  
10  ]  
11 }
```

How to handle...

Items (artefacts)

Data & Connections

- Lakehouse tables
- Datamarts
- SQL databases
- API endpoints
- Etc.

Security & Access control

Environment configuration

Deployment Pipelines

- Autobinding
- Manual binding

Deployment Rules

- Change connection strings
- Change parameter values

What about Key Vault?

- ... support is underway!
- Fabric **variables** will support this in the future

How to handle...

Items (artefacts)

Data & Connections

Security & Access control

- Row-Level Security (RLS)
- Workspace permissions
- Data sensitivity labels

Environment configuration

Workspace Permissions

- Environment / stage-specific
- Permissions do not propagate

RLS

- Preserved during deployment
- Validate Post-Deployment
- Differences in sources or roles can impact RLS behavior!

Sensitivity Labels

- Do not propagate
- Manually applied

What about Deployment Rules?

- Do not modify security settings

How to handle...

Items (artefacts)

Data & Connections

Security & Access control

- Row-Level Security (RLS)
- Workspace permissions
- Data sensitivity labels

Environment configuration

What about automation?

- Possible via the REST API
- Not configurable from within Fabric

What about Azure DevOps?

- Sure, all is possible!

How to handle...

Items (artefacts)

Data & Connections

Security & Access control

Environment configuration

- Spark compute settings
- Library dependencies
- Environment variables

For Spark-based artefacts

- Notebooks
- Spark job definitions

Configuration of

- Compute settings
- Spark Properties
- Library dependencies
- Runtime version

Setting up an Environment

☰

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Fabric My-Awesome-App

🔍

Search

Trial:
16 days left

🔔

1

⚙️

⬇️

?

🗑️

👤

🏠
Home

📁
Workspaces

📊
OneLake
catalog

📈
Monitor

⚡
Real-Time

👤
My-
Awesome...

📊
Dashboard
Wortell ...

🔧
pipeline1

👤
My-Awesome-App

🔔

💎

🚀

Development

+ New item

📁+ New folder

→| Import ▾

⬆️ Mi

Ch

Select

Name

Type

New item

🌟 Favorites

☑️ All items

🔍 environ

✕

Analyze and train data

Propose hypotheses, train models, and explore your data to make decisions and predictions.

Environment

Set up shared libraries, Spark compute settings, and resources for notebooks and Spark job definitions.

☆


Develop data

Create and build your software, applications, and data solutions.


Environment

Set up shared libraries, Spark compute settings, and resources for notebooks and Spark job definitions.


Settings...

 You have unpublished changes. To apply these changes to notebooks and Spark job definition run in this environment, select Publish. To save your changes without updating the

Libraries


 Built-in Library


 Public Library

 Custom Library

Spark compute

 Acceleration

 **Compute** 5

 Spark properties

Storage

 Resources

Spark compute configuration

This configuration applies to all notebooks and and Spark job definitions in this environment. When you sele any environment-level pool details you customize. [Learn more](#)

Environment pool

Starter Pool



Pool details



Node family

Auto (Memory optimized)

Node size

Medium

Number of nodes

1 - 10

Compute

Spark driver core

4



Spark driver memory

28GB




Spark executor core

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Settings...

Libraries

 Built-in Library


 Public Library 1

 Custom Library

Spark compute

 Acceleration

 Compute 5

 Spark properties


Public libraries


Search and add libraries from public repositories or [more](#)


☐ requests



>  Dashboard Wortell Smart Learning.Report


>  Dashboard Wortell Smart Learning.Semanti

✓  Dev.Environment

✓  Libraries

✓  PublicLibraries

 environment.yml 

>  Setting

 .platform

environment.yml

Contents History Compare Blame

```
1 dependencies:
2   - pip:
3     - requests==2.32.4
4
```

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How to handle...

Items (artefacts)

Data & Connections

Security & Access control

Environment configuration

- Spark compute settings
- Library dependencies
- Environment variables

For Spark-based artefacts

- Notebooks
- Spark job definitions

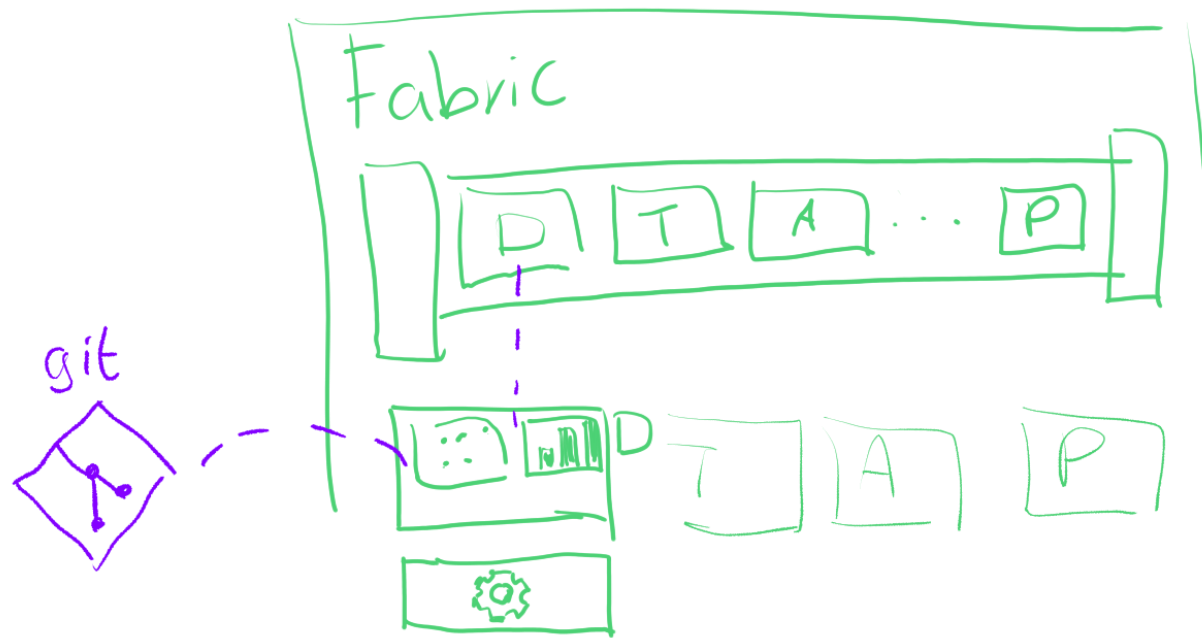
Configuration of

- Compute settings
- Spark Properties
- Library dependencies
- Runtime version

Does it deploy?

- Yes (consistency across workspaces)
- No custom Spark (default at deployment target)

Summary: Fabric Pipelines

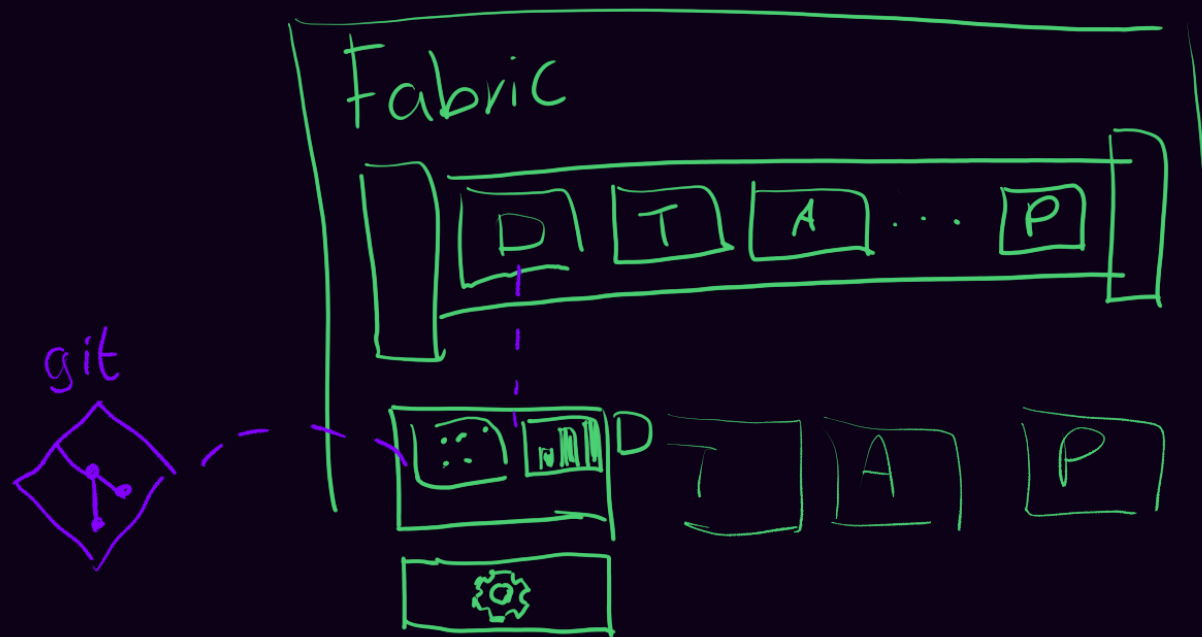


Welcome to the Dark Side

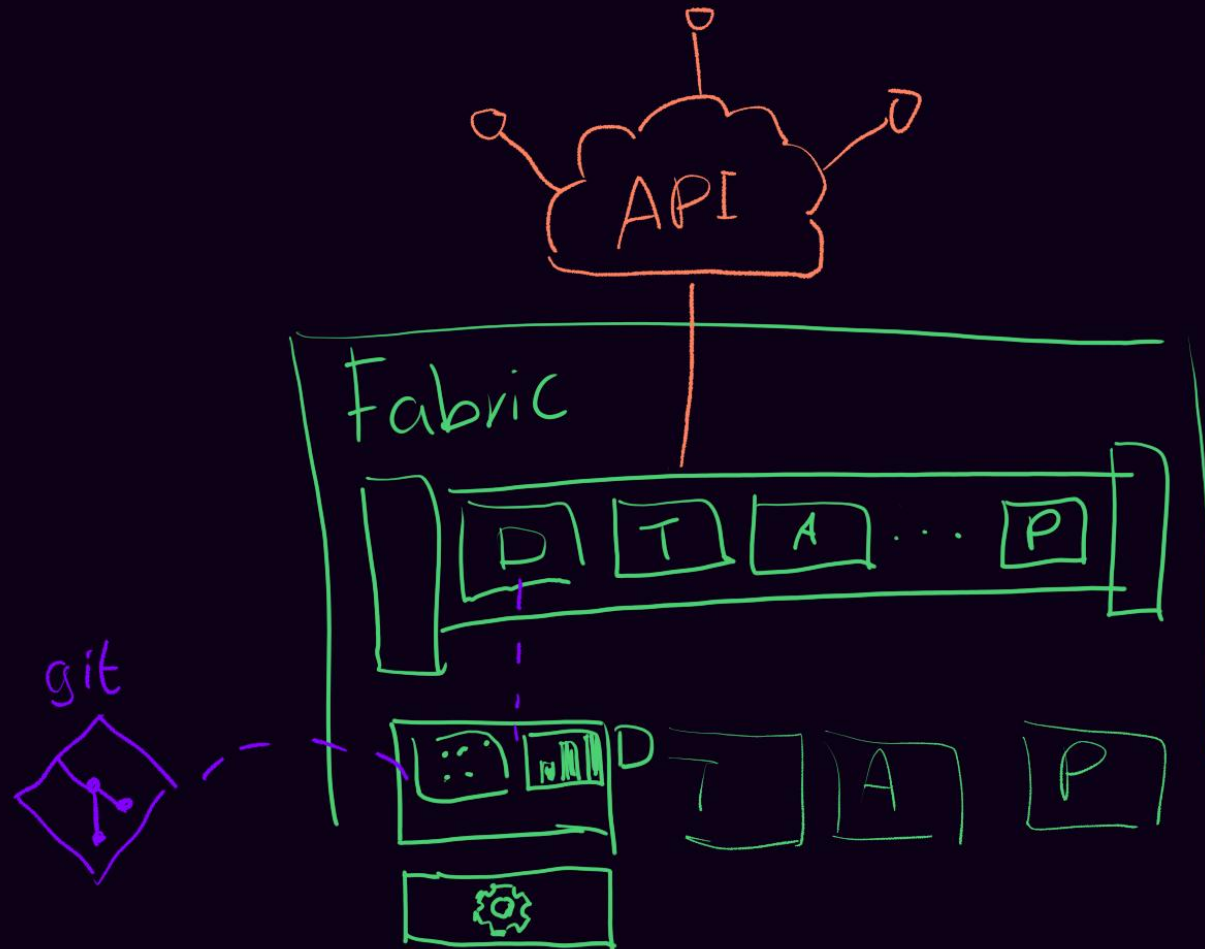
Automation, API's and other ALM tools

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Summary: Fabric Pipelines



Deployment Pipelines vs ...



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Deployment Pipelines vs ...

[Learn](#) / [Power BI REST APIs](#) /




Pipelines

Reference

Service: Power BI REST APIs

API Version: v1.0

Operations

 Expand table

Assign Workspace	Assigns the specified workspace to the specified deployment pipeline stage.
Create Pipeline	Creates a new deployment pipeline.
Delete Pipeline	Deletes the specified deployment pipeline.
Delete Pipeline User	Removes user permissions from the specified deployment pipeline.
Deploy All	Deploys all supported items from the source stage of the specified deployment pipeline.
Get Pipeline	Returns the specified deployment pipeline.
Get Pipeline Operation	Returns the details of the specified deploy operation performed on the specified deployment pipeline, including the deployment execution plan.
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Deployment Pipelines vs ...

Learn / Power BI REST APIs /




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
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Get Pipeline Stages	Returns the stages of the specified deployment pipeline.
Get Pipeline Users	Returns a list of users that have access to the specified deployment pipeline.
Selective Deploy	Deploys the specified items from the source stage of the specified deployment pipeline.
Unassign Workspace	Unassigns the workspace from the specified stage in the specified deployment pipeline.
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Update Pipeline User	Grants user permissions to the specified deployment pipeline.

Pipelines

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Get Pipeline Operation	Returns the details of the specified deploy operation performed on the specified deployment pipeline, including the deployment execution plan.
Get Pipeline Operations	Returns a list of the up-to-20 most recent deploy operations performed on the specified deployment pipeline.
Get Pipelines	Returns a list of deployment pipelines that the user has access to.
Get Pipeline Stage Artifacts	Returns the supported items from the workspace assigned to the specified stage of the specified deployment pipeline.
Get Pipeline Stages	Returns the stages of the specified deployment pipeline.
Get Pipeline Users	Returns a list of users that have access to the specified deployment pipeline.
Selective Deploy	Deploys the specified items from the source stage of the specified deployment pipeline.
Unassign Workspace	Unassigns the workspace from the specified stage in the specified deployment pipeline.
Update Pipeline	Updates the specified deployment pipeline.
Update Pipeline User	Grants user permissions to the specified deployment pipeline.

Pipelines

Reference

Service: Power BI REST APIs

API Version: v1.0

Operations

Expand table

Assign Workspace	Assigns the specified workspace to the specified deployment pipeline stage.
Create Pipeline	Creates a new deployment pipeline.
Delete Pipeline	Deletes the specified deployment pipeline.
Delete Pipeline User	Removes user permissions from the specified deployment pipeline.
Deploy All	Deploys all supported items from the source stage of the specified deployment pipeline.
Get Pipeline	Returns the specified deployment pipeline.
Get Pipeline Operation	Returns the details of the specified deploy operation performed on the specified deployment pipeline, including the deployment execution plan.
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Unassign Workspace	Unassigns the workspace from the specified stage in the specified deployment pipeline.
Update Pipeline	Updates the specified deployment pipeline.
Update Pipeline User	Grants user permissions to the specified deployment pipeline.

Deploy options

Deploy All

- API call
- Deploys all the content to the next stage

Selective Deploy

- API call
- Deploys only specific items

Backward deploy

- Deploys items to *previous* stage
- Uses **Deploy All** or **Selective Deploy** API
- Parameter **isBackwardDeployment = True**

Update App

- Update app related to stage
- Uses **Deploy All** or **Selective Deploy** API
- Parameter **updateAppSettings**
 - expects **PipelineUpdateAppobject**
 - (not too complex)

Deploy options

Deploy All

- API call
- Deploys all the content to the next stage


Selective Deploy

- API call
- Deploys only specific items

PipelineUpdateAppSettings

Object

Configuration update org app after deployment

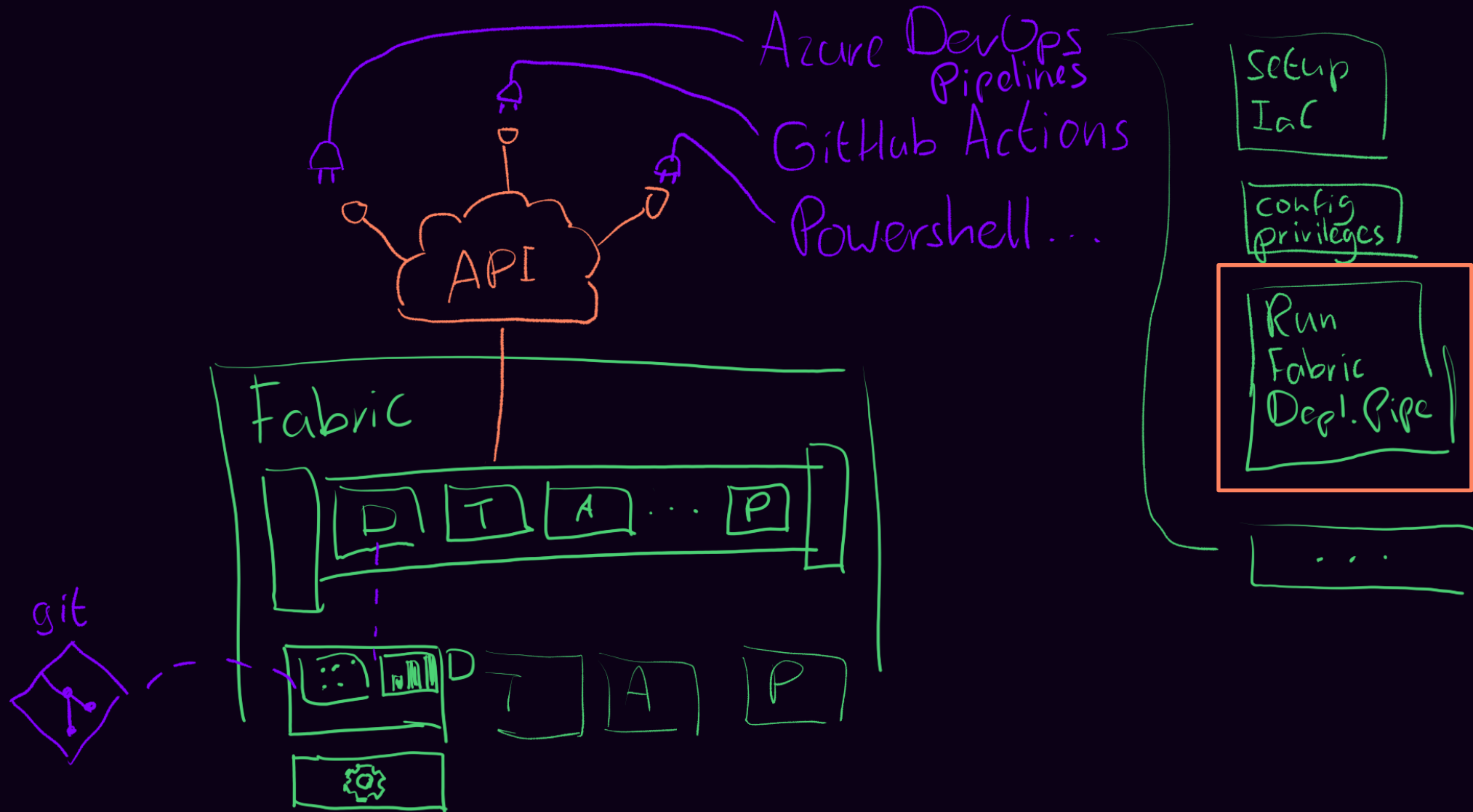
 Expand table

Name	Type	Description
updateAppInTargetWorkspace	boolean	Whether to update the app in the target workspace. Only deployed items that already exist in the app are updated. New deployed items are not added to the app.

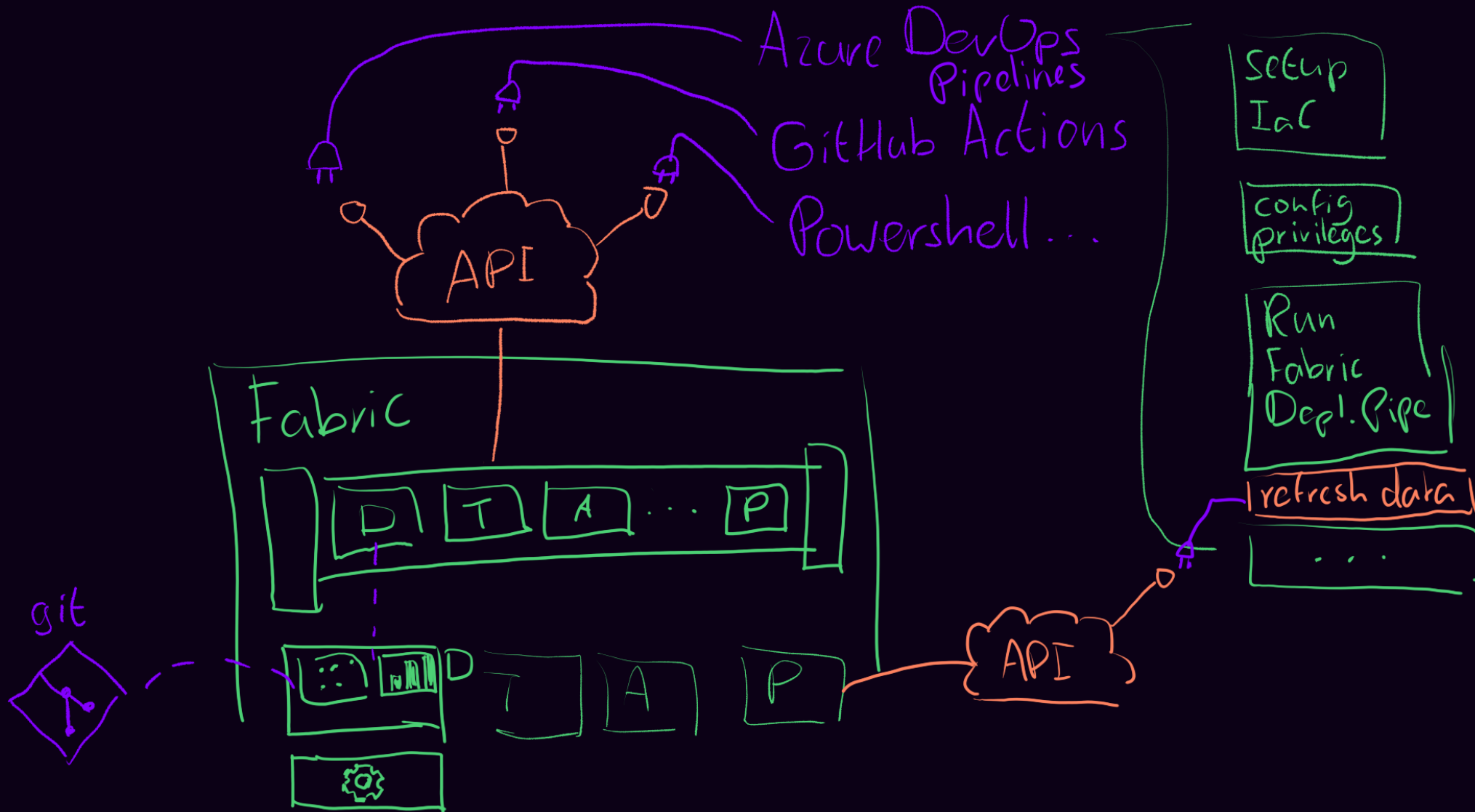
Update App

- Update app related to stage
- Uses **Deploy All** or **Selective Deploy** API
- Parameter **updateAppSettings**
 - expects **PipelineUpdateAppobject**
 - (not too complex)

Deployment Pipelines vs ...

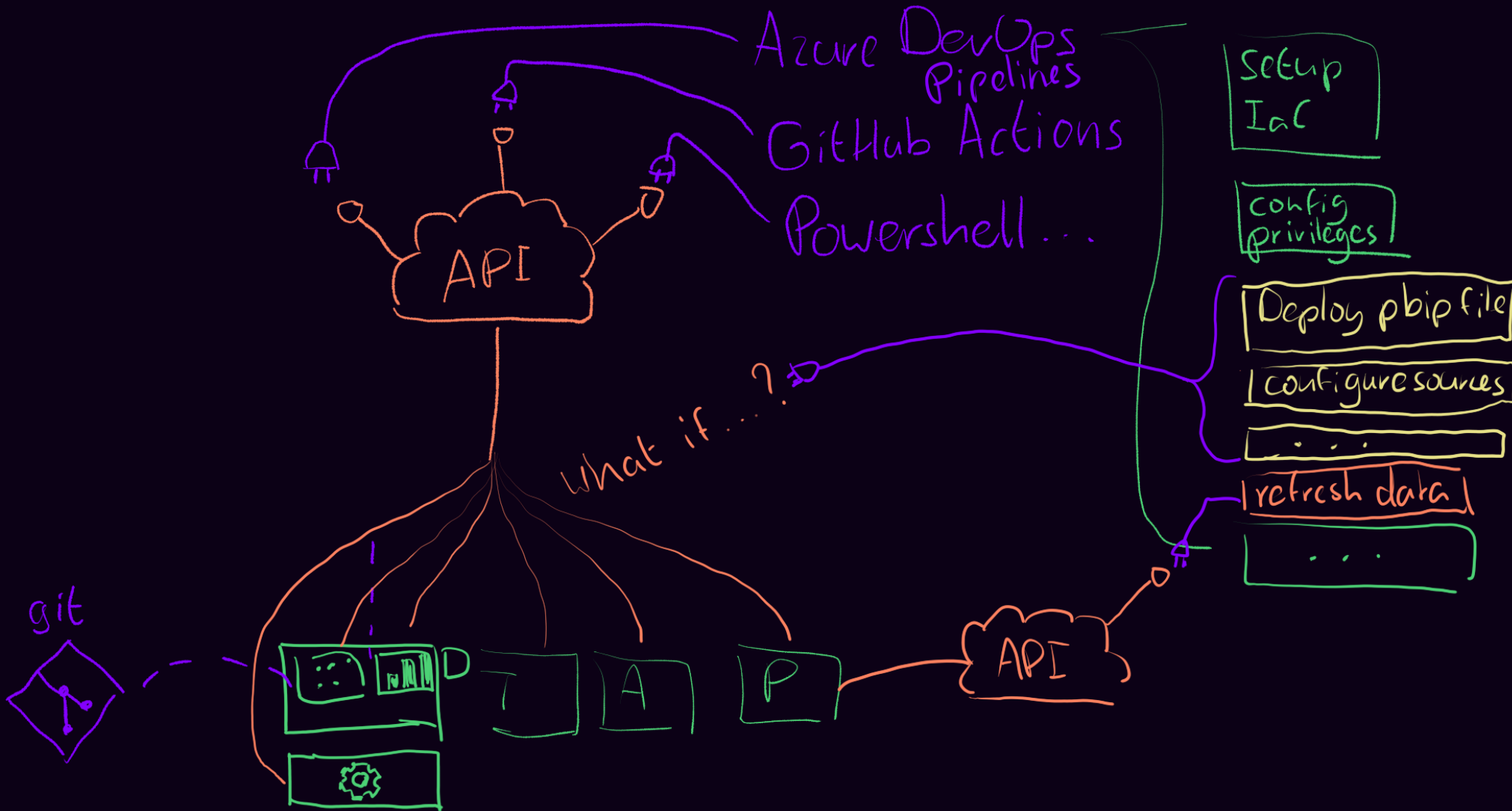


Deployment Pipelines vs ...



wortell

CI/CD w/o Deployment pipelines?



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CI/CD w/o Deployment pipelines?

Deployment Pipelines

- Configuration Preservation
- Autobinding
- Data is preserved
- Sometimes limited, but very powerful

Manually via REST (no DP)

- Use PBIP files
- Automate deployments
- Implement Post-deployment configuration
- Handle Data Refresh
- Unlimited, but lots of customization
- Can be done via
 - Azure DevOps
 - GitHub Actions
 - GitLab CI/CD
 - Other CI/CD tooling

Wrapping up

Returning to the Light Side

Wrapping up

Use the

Fabric Pipelines API

for orchestration and automation

Use

CI/CD tooling

for everything *around* the Fabric deployment (privileges, infra, extra refreshes, etc.)

Use

Fabric Pipelines

for ALM within Fabric

Connect
Dev
workspace
to

Git



wortell

Wrapping up

Fabric Pipelines API

CI/CD tooling

Fabric Pipelines

Git



wortell

Wrapping up

Fabric Pipelines API

Fabric Pipelines

CI/CD tooling

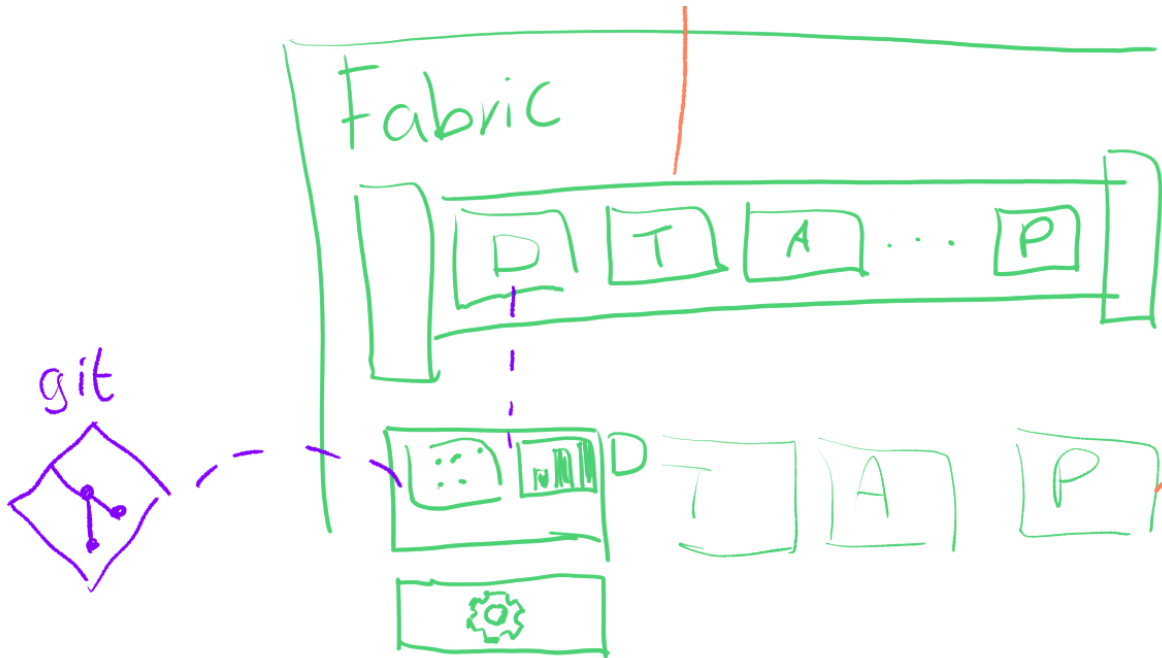


wortell

Wrapping up

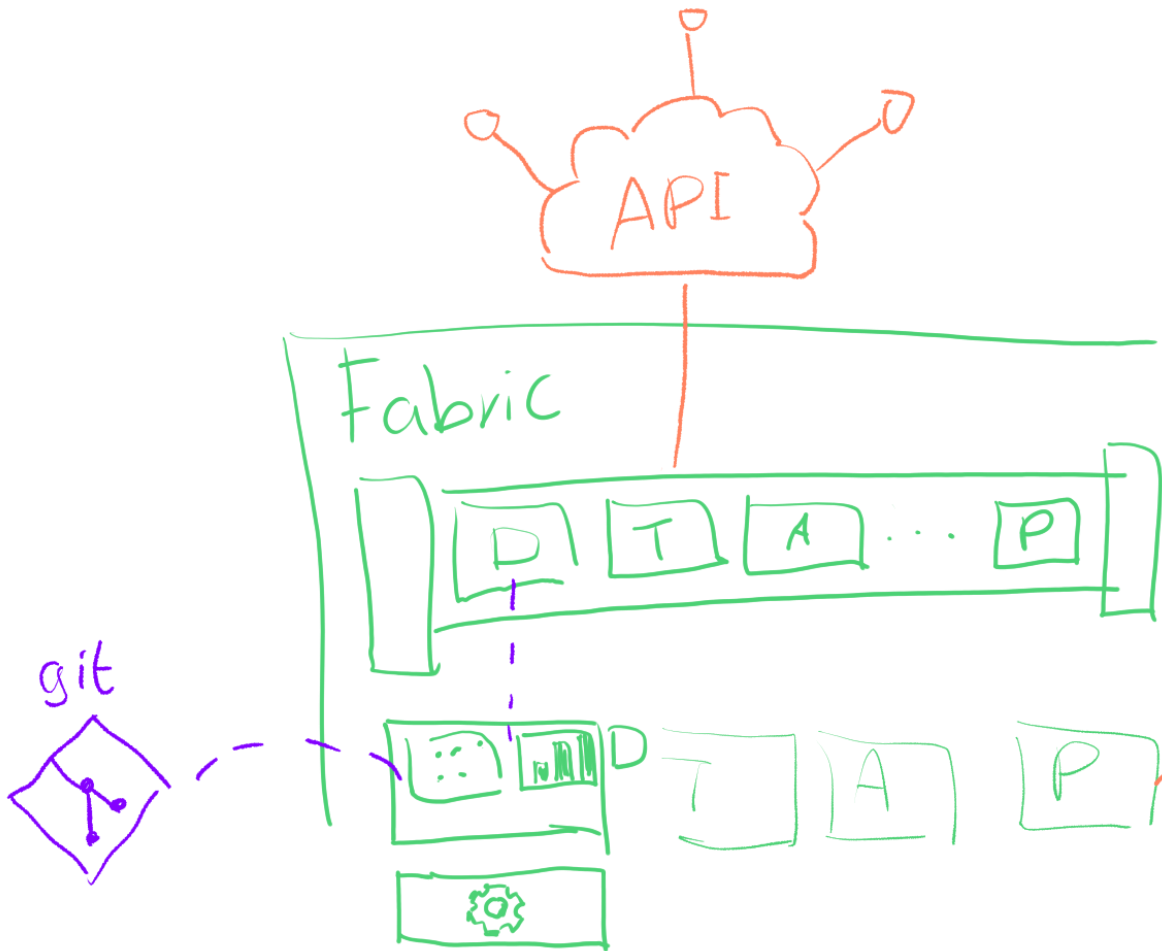
Fabric Pipelines API

CI/CD tooling



wortell

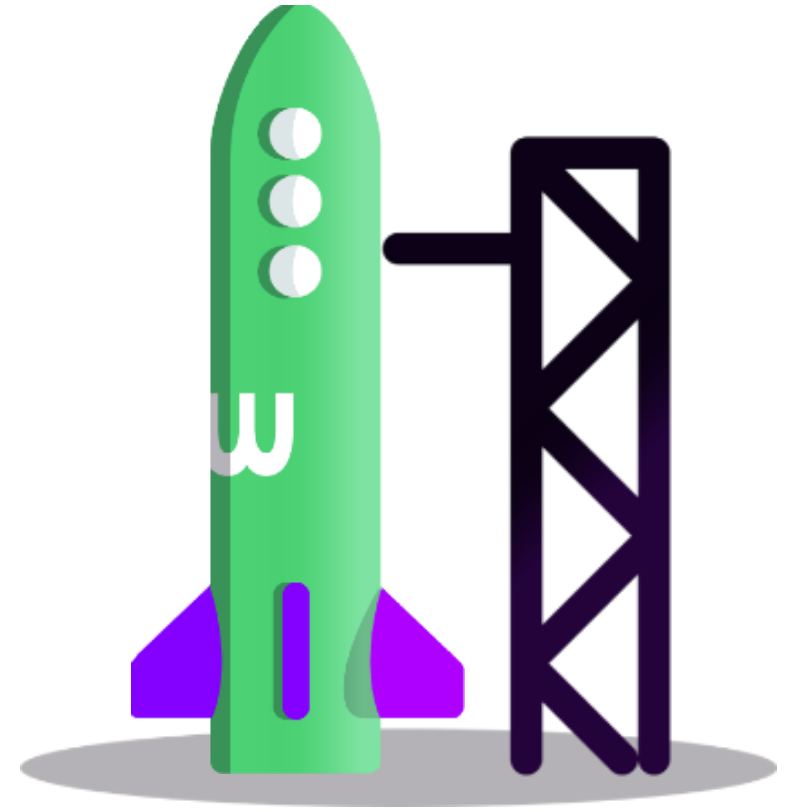
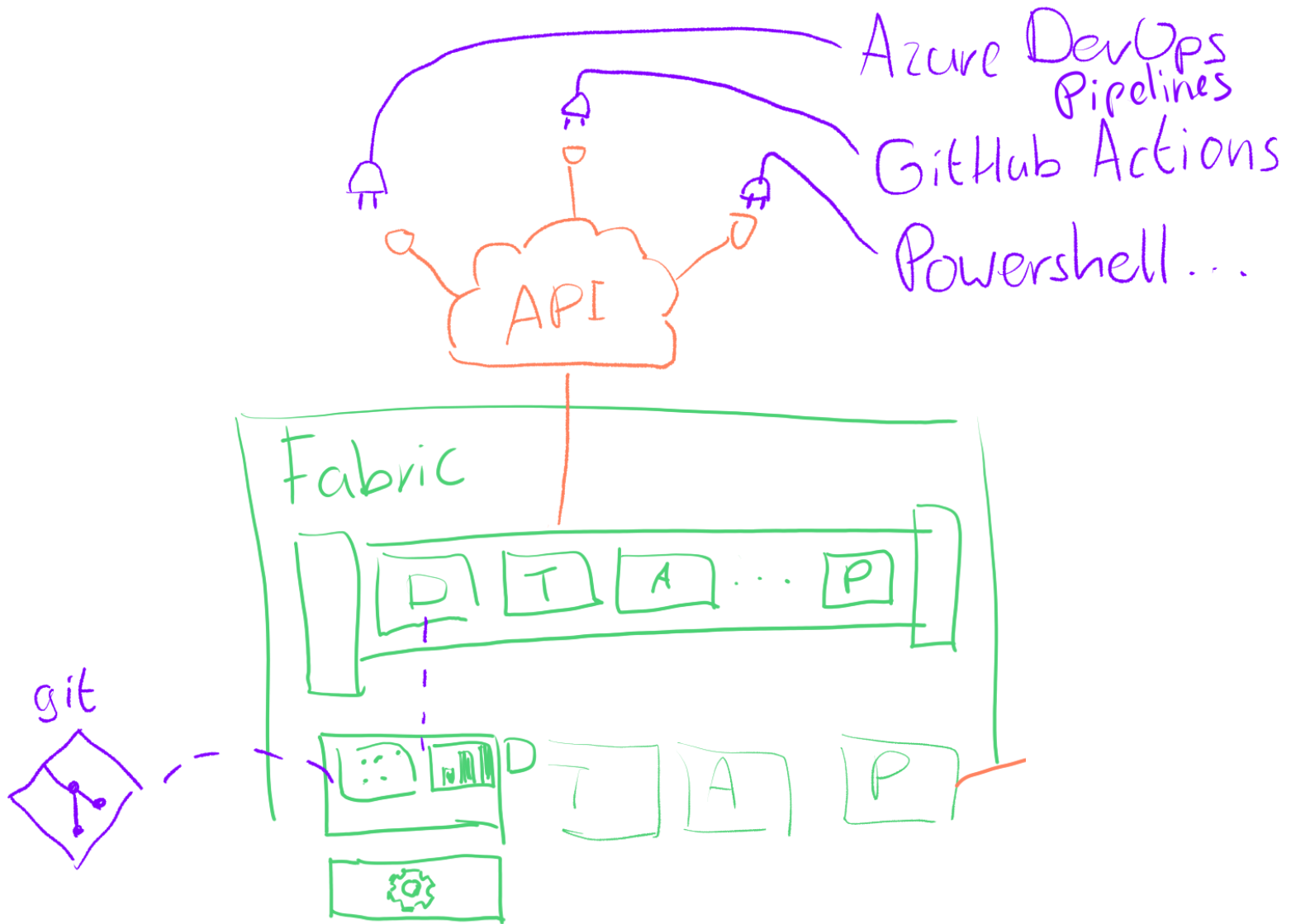
Wrapping up



CI/CD tooling

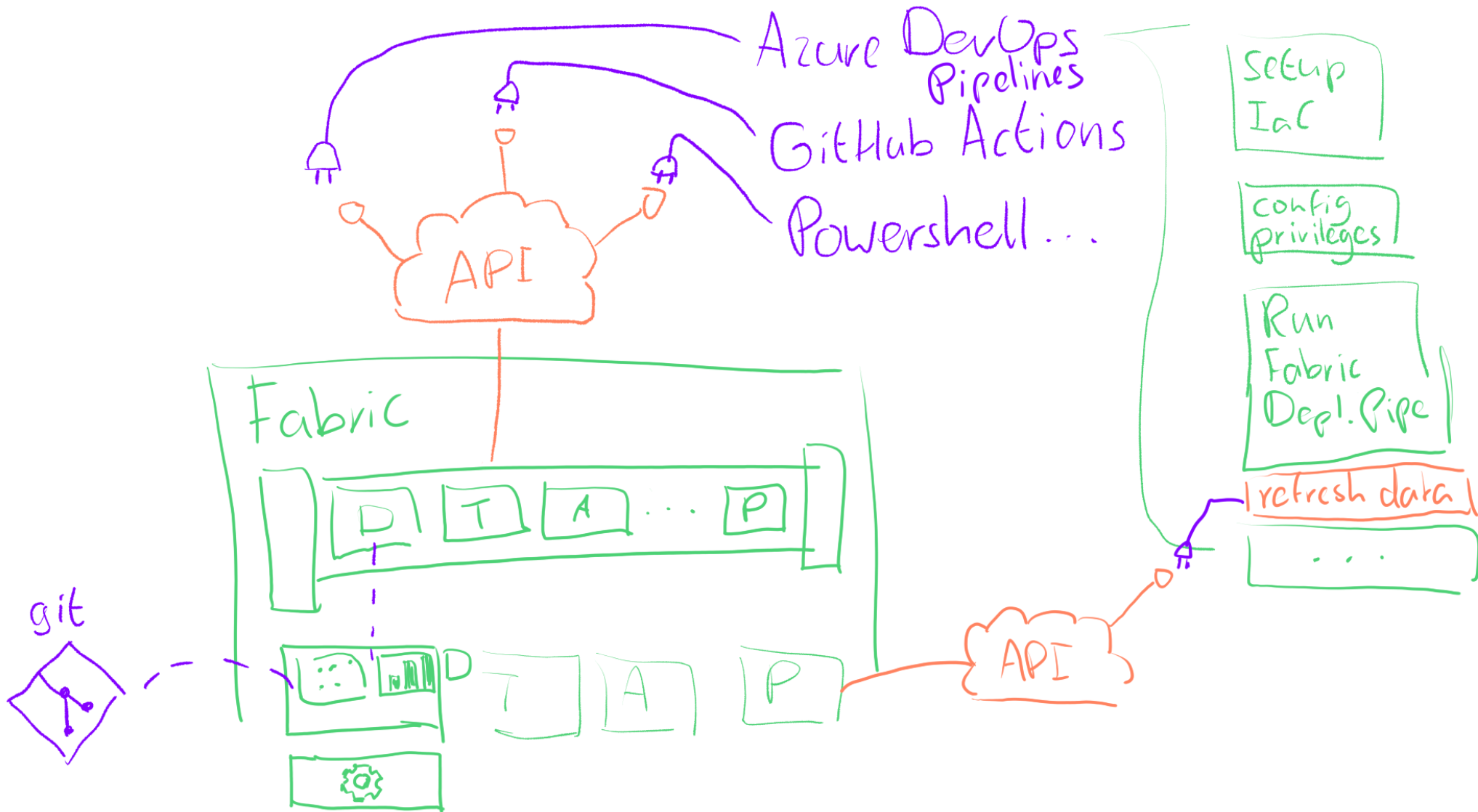
wortell

Wrapping up



wortell

Wrapping up



A decorative graphic in the top right corner featuring a stylized person with orange hair, a green shirt, and blue pants, surrounded by various green and blue circles and lines, suggesting a data or network theme.

Thank you!

A decorative graphic in the bottom left corner consisting of a large blue circle and a smaller green circle.

wortell



Get Creative with Power BI

Make these core visuals pop!

**SPENT HOURS
BUILDING AN
AWESOME
REPORT**



**NO ONE
USES IT**





Valerie Junk

PorcuBI

- Data Visualization & Storytelling
- Real-time Intelligence
- Change Management



@porcubi



www.porcu.bi



Why focus on (core) visuals?

- Simplify complex data.
- Improve decision-making.
- No additional costs.

Business Intelligence Report 1

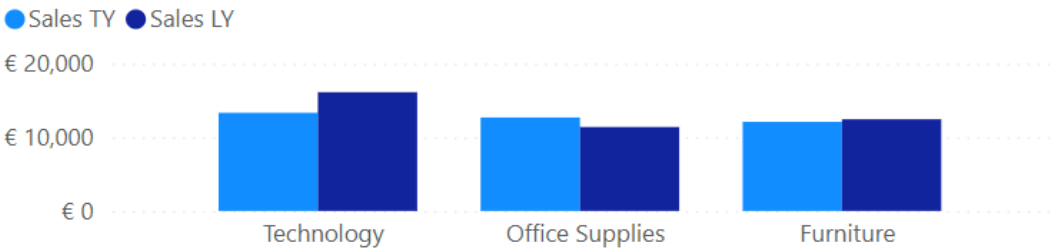
Sales
€ 38,084

Quantity
694

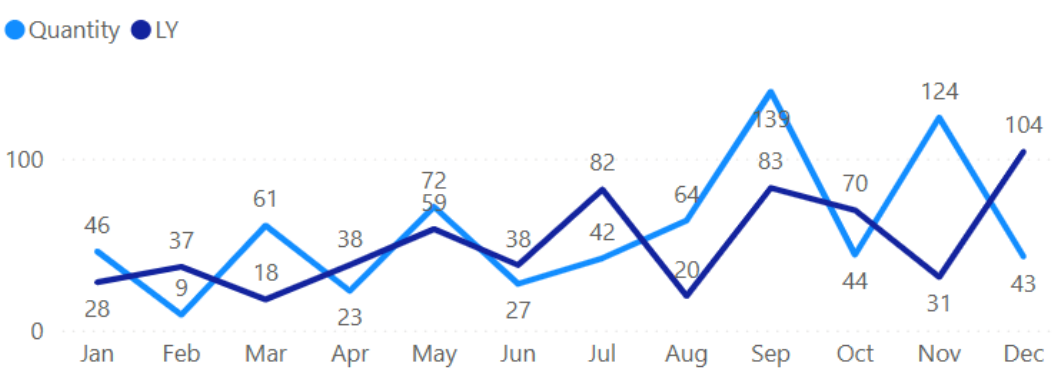
Sales LY
€ 39,947

Sales Difference
-5%

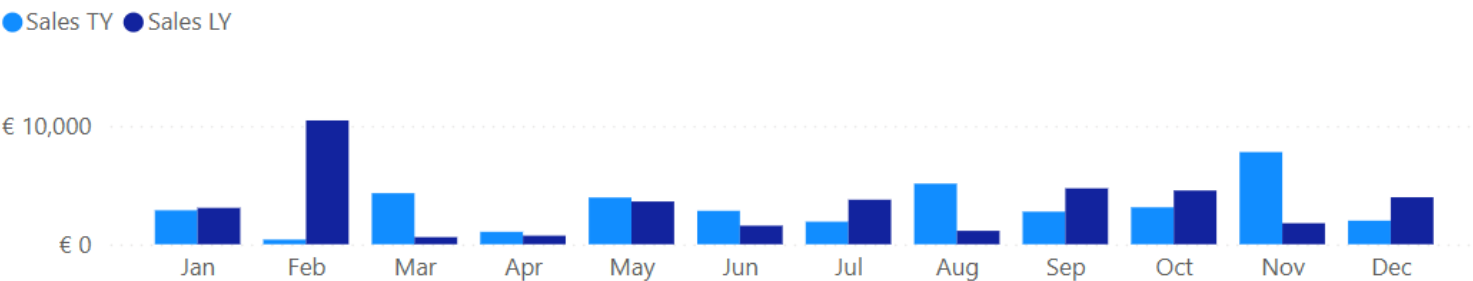
TY vs LY Sales by Category



TY vs LY Quantity by Month



Sales TY and Sales LY by Month Name Short



Sales, Quantity and Target by Month by Categ...

	Sales TY	Sales LY	Sales YoY	Quantity TY
Jan	€ 2,867.46	€ 3,073.44	-6.70%	46
Furniture	€ 69.38	€ 1,615.93	-95.71%	1
Office Supplies	€ 515.28	€ 1,457.51	-64.65%	24
Technology	€ 2,282.80			21
Feb	€ 395.70	€ 10,455.49	-96.22%	9
Furniture	€ 359.97	€ 246.65	45.94%	3
Office Supplies	€ 35.73	€ 1,458.89	-97.55%	6
Technology		€ 8,749.95	-100.00%	
Mar	€ 4,312.97	€ 602.10	616.32%	61
Furniture	€ 205.33	€ 354.90	-42.14%	2
Office Supplies	€ 744.01	€ 112.35	562.23%	40
Technology	€ 3,363.63	€ 134.85	2394.35%	19
Apr	€ 1,051.91	€ 727.15	44.66%	23
Furniture	€ 908.82			9
Office Supplies	€ 47.35	€ 692.03	-93.16%	11
Technology	€ 95.74	€ 35.12	172.61%	3
May	€ 3,946.97	€ 3,611.28	9.30%	72
Furniture	€ 2,418.83	€ 1,050.30	130.30%	17
Office Supplies	€ 992.40	€ 1,085.04	-8.54%	45
Technology	€ 535.74	€ 1,475.94	-63.70%	10
Jun	€ 2,827.69	€ 1,569.62	80.15%	27
Furniture		€ 1,306.03	-100.00%	
Office Supplies	€ 1,339.74	€ 59.06	2168.44%	12
Technology	€ 1,487.95	€ 204.53	627.50%	15
Total	€ 38,083.93	€ 39,946.89	-4.66%	694

2025 Sales

Sales

€ 38.084

Last Year: € 39.947 (↑-5% YoY)

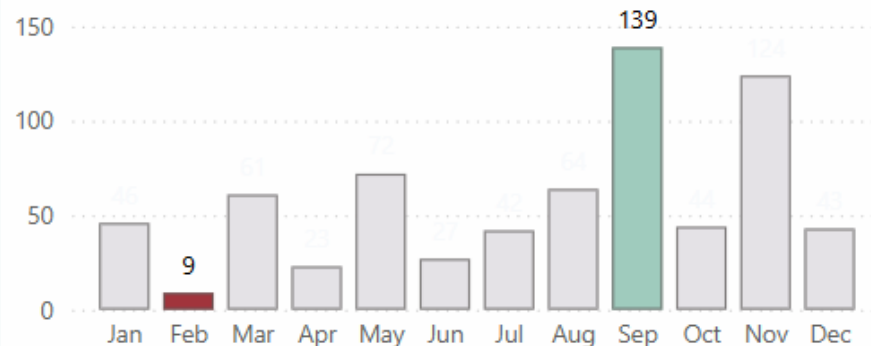
Quantity

694

Last Year: 608 (↓14% YoY)

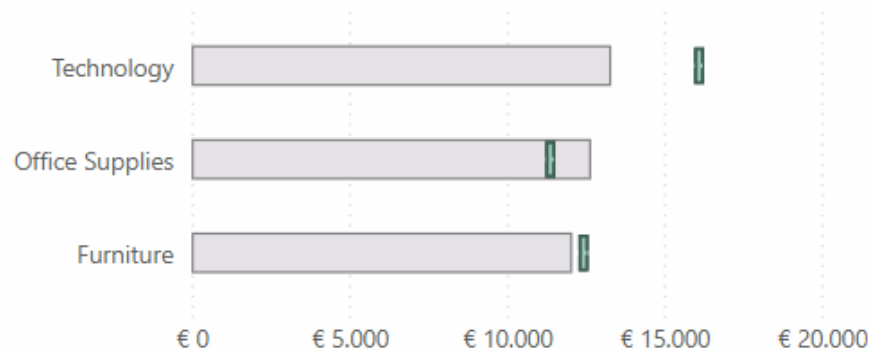
When did we sell the most and least products?

Most products sold in September, least products in February.



Which category reached the yearly target?

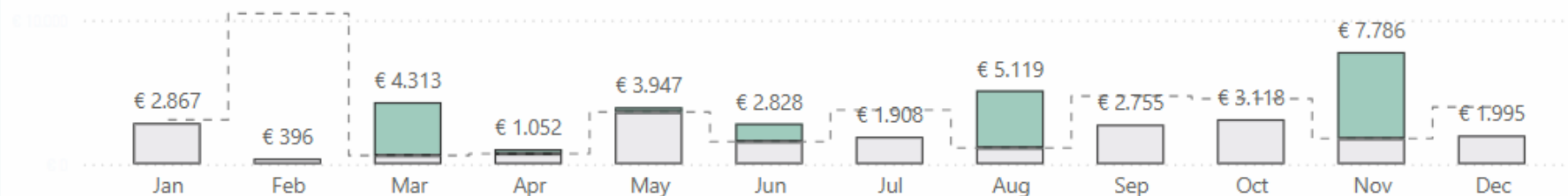
Category Office Supplies hit the sales target.



In which months did we hit our sales target?

In the months March, April, May, June, August, November we hit our target.

○ Below target ● Above target - - - Target



Conditional Formatting

No Formatting

Monthly sales overview

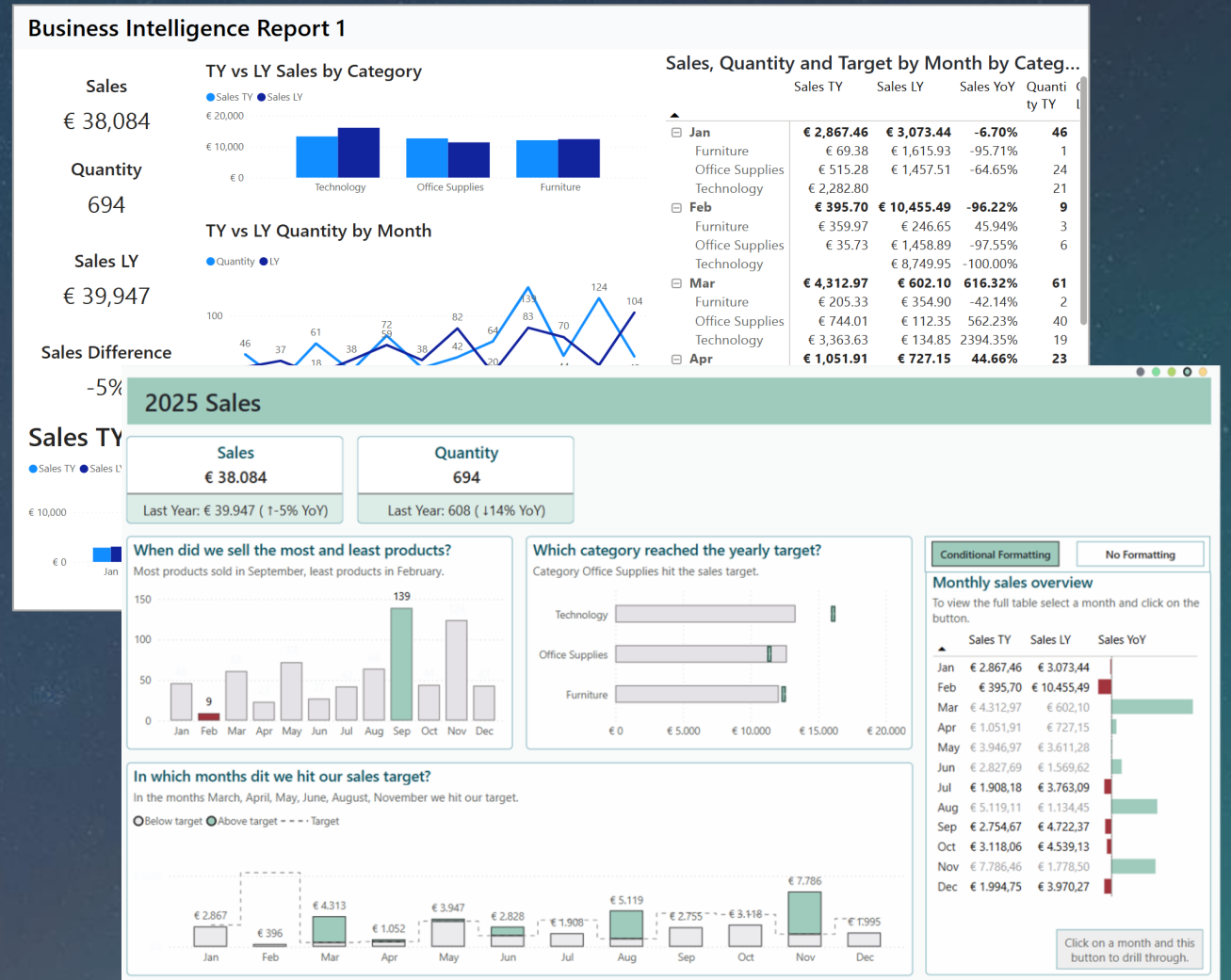
To view the full table select a month and click on the button.

	Sales TY	Sales LY	Sales YoY
Jan	€ 2.867,46	€ 3.073,44	
Feb	€ 395,70	€ 10.455,49	
Mar	€ 4.312,97	€ 602,10	
Apr	€ 1.051,91	€ 727,15	
May	€ 3.946,97	€ 3.611,28	
Jun	€ 2.827,69	€ 1.569,62	
Jul	€ 1.908,18	€ 3.763,09	
Aug	€ 5.119,11	€ 1.134,45	
Sep	€ 2.754,67	€ 4.722,37	
Oct	€ 3.118,06	€ 4.539,13	
Nov	€ 7.786,46	€ 1.778,50	
Dec	€ 1.994,75	€ 3.970,27	

Click on a month and this button to drill through.

Design

- Design requires **time**.
- It depends on the **audience**.
- There's a **thin line** between too much and too little.
- **Consistency** is key.

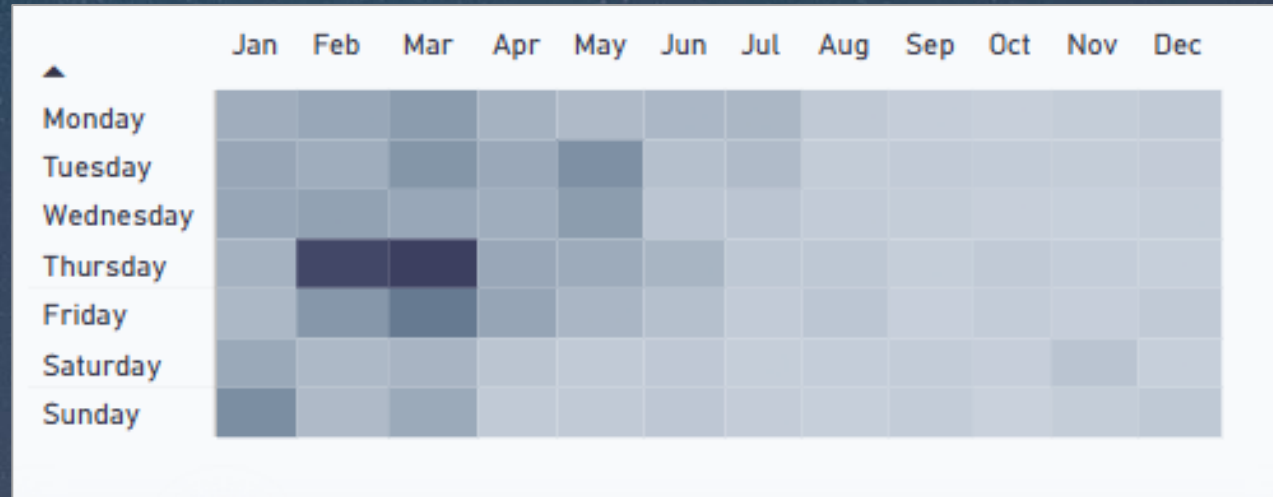




**There is no innovation
and creativity without
failure.**

Brene Brown

A heatmap example



Conditional Formatting

Category	Product	Gross Sales	Sales LY	Sum of Units Sold	Units Sold LY
Computer s	Product 1	49,128	459,198.71	4,094.00	29,191.50
	Product 2	732,090	2,457,246.88	9,216.00	24,811.00
	Product 3	2,256,856	905,136.92	7,796.00	23,129.00
	Product 4	128,796	2,875,448.87	11,091.50	40,892.00
	Product 5	69,627	1,117,383.93	5,845.00	16,219.00
	Product 6	85,214	633,802.59	7,233.00	27,021.00
Headpho nes	Product 1	8,318,254	4,999,939.70	40,525.50	28,055.00
	Product 2	6,714,356	3,353,474.59	35,383.50	33,525.00
	Product 3	5,797,674	2,992,397.84	30,872.50	24,773.50
	Product 4	9,216,325	8,204,704.54	66,659.50	52,427.50
	Product 5	4,868,096	5,166,997.55	34,364.00	34,317.00
	Product 6	7,796,254	4,066,131.34	36,423.00	22,820.00
Office Electronic s	Product 1	7,302,443	7,804,521.13	47,291.00	55,358.50
	Product 2	7,082,499	7,396,008.97	30,822.00	41,544.00
	Product 3	5,204,885	6,643,460.68	33,837.00	50,226.00
	Product 4	15,468,394	16,051,790.92	88,790.00	120,093.00
	Product 5	10,276,638	5,183,595.39	51,090.50	53,731.00
	Product 6	12,043,158	10,239,006.92	40,982.50	56,067.00

Conditional Formatting

Category	Product	Gross Sales	Sales LY	Sum of Units Sold	Units Sold LY
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	Product 3	5,204,885	6,643,460.68	33,837.00	50,226.00
	Product 4	15,468,394	16,051,790.92	88,790.00	120,093.00
	Product 5	10,276,638	5,183,595.39	51,090.50	53,731.00
	Product 6	12,043,158	10,239,006.92	40,982.50	56,067.00

It is not about colouring..

- **Who** is the audience?
- **What** is the experience level?
- How much **detail** is needed?
- What **actions** do they want to take?

TABLES

2025 Sales Report

	Sales TY	Sales LY	Sales YoY	Quantity TY	Quantity LY	Difference
Jan	€ 2.867,46	€ 3.073,44	-6,70%	46	28	18
Feb	€ 395,70	€ 10.455,49	-96,22%	9	37	-28
Mar	€ 4.312,97	€ 602,10	616,32%	61	18	43
Apr	€ 1.051,91	€ 727,15	44,66%	23	38	-15
May	€ 3.946,97	€ 3.611,28	9,30%	72	59	13
Jun	€ 2.827,69	€ 1.569,62	80,15%	27	38	-11
Jul	€ 1.908,18	€ 3.763,09	-49,29%	42	82	-40
Aug	€ 5.119,11	€ 1.134,45	351,24%	64	20	44
Sep	€ 2.754,67	€ 4.722,37	-41,67%	139	83	56
Oct	€ 3.118,06	€ 4.539,13	-31,31%	44	70	-26
Nov	€ 7.786,46	€ 1.778,50	337,81%	124	31	93
Dec	€ 1.994,75	€ 3.970,27	-49,76%	43	104	-61
Total	€ 38.083,93	€ 39.946,89	-4,66%	694	608	86

Icons

- Improve **readability**.
- **Guide** attention.
- **Support** decision making.

2025 Sales Report

	Sales TY	Sales LY	Sales YoY	Quantity TY	Quantity LY
Jan	€ 2.867,46	€ 3.073,44	-6,70%	46	28
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May	€ 3.946,97	€ 3.611,28	9,30%	72	59
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Jul	€ 1.908,18	€ 3.763,09	-49,29%	42	82
Aug	€ 5.119,11	€ 1.134,45	351,24%	64	20
Sep	€ 2.754,67	€ 4.722,37	-41,67%	139	83
Oct	€ 3.118,06	€ 4.539,13	-31,31%	44	70
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Apr	€ 1.051,91	€ 727,15	▼ 44,66%	23	38
May	€ 3.946,97	€ 3.611,28	▼ 9,30%	72	59
Jun	€ 2.827,69	€ 1.569,62	▼ 80,15%	27	38
Jul	€ 1.908,18	€ 3.763,09	▼ -49,29%	42	82
Aug	€ 5.119,11	€ 1.134,45	▲ 351,24%	64	20
Sep	€ 2.754,67	€ 4.722,37	▼ -41,67%	139	83
Oct	€ 3.118,06	€ 4.539,13	▼ -31,31%	44	70
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Jul	€ 1.908,18	€ 3.763,09	▼ -49,29%	42	82
Aug	€ 5.119,11	€ 1.134,45	351,24%	64	20
Sep	€ 2.754,67	€ 4.722,37	▼ -41,67%	139	83
Oct	€ 3.118,06	€ 4.539,13	▼ -31,31%	44	70
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Total	€ 38.083,93	€ 39.946,89	-4,66%	694	608

Icons

Icons - Sales YoY

Format style

Rules

Apply to

Values only

What field should we base this on?

Sales YoY

Icon layout

Left of data

Icon alignment

Top

Style

Custom

Rules

↑↓ Reverse icon order

+ New rule

If value

>=

Min

Number

and

<

0

Number

then

▼

↑ ↓ ×

2025 Sales Report

	Sales YoY	Quantity TY	Quantity LY
3,44	▼ -6,70%	46	28
5,49	▼ -96,22%	9	37
2,10	616,32%	61	18
7,15	44,66%	23	38
1,28	9,30%	72	59
9,62	80,15%	27	38
3,09	▼ -49,29%	42	82
4,45	351,24%	64	20
2,37	▼ -41,67%	139	83
9,13	▼ -31,31%	44	70
8,50	337,81%	124	31
0,27	▼ -49,76%	43	104
Total	€ 38.083,93 € 39.946,89 -4,66%	694	608

Font color

- Improve **readability**.
- **Guide** attention.

2025 Sales Report

	Sales TY	Sales LY	Sales YoY	Quantity TY	Quantity LY
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Total	€ 38.083,93	€ 39.946,89	-4,66%	694	608

Font color

2025 Sales Report

Font color - Sales YoY

Format style

Rules

Apply to

Values only

What field should we base this on?

Sales YoY

Rules

↕ Reverse color order

+ New rule

If value

>=

0

Number

and

<=

Max

Number

then

■

↑ ↓ ×

If value

>=

Min

Number

and

<

0

Number

then

■

↑ ↓ ×

	Sales YoY	Quantity TY	Quantity LY		
	-6,70%	46	28		
	-96,22%	9	37		
	616,32%	61	18		
	44,66%	23	38		
	9,30%	72	59		
	80,15%	27	38		
	-49,29%	42	82		
	351,24%	64	20		
	-41,67%	139	83		
	-31,31%	44	70		
	337,81%	124	31		
	-49,76%	43	104		
Total	€ 38.083,93	€ 39.946,89	-4,66%	694	608

Font color

- One column or all?
- Accessibility

2025 Sales Report

	Sales TY	Sales LY	Sales YoY	Quantity TY	Quantity LY
Jan	€ 2.867,46	€ 3.073,44	▼ -6,70%	46	28
Feb	€ 395,70	€ 10.455,49	▼ -96,22%	9	37
Mar	€ 4.312,97	€ 602,10	616,32%	61	18
Apr	€ 1.051,91	€ 727,15	44,66%	23	38
May	€ 3.946,97	€ 3.611,28	9,30%	72	59
Jun	€ 2.827,69	€ 1.569,62	80,15%	27	38
Jul	€ 1.908,18	€ 3.763,09	▼ -49,29%	42	82
Aug	€ 5.119,11	€ 1.134,45	351,24%	64	20
Sep	€ 2.754,67	€ 4.722,37	▼ -41,67%	139	83
Oct	€ 3.118,06	€ 4.539,13	▼ -31,31%	44	70
Nov	€ 7.786,46	€ 1.778,50	337,81%	124	31
Dec	€ 1.994,75	€ 3.970,27	▼ -49,76%	43	104

Font color - Options

- Provide **options** for your end-user.
- Large audience = diverse preferences.

Conditional Formatting

No Formatting

2025 Sales Report

	Sales TY	Sales LY	Sales YoY	Quantity TY	Quantity LY
Jan	€ 2.867,46	€ 3.073,44	▼ -6,70%	46	28
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Slicer

Conditional Formatting

No Formatting

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Dec	€ 1.994,75	€ 3.970,27	▼ -49,76%	43	104

Slicer

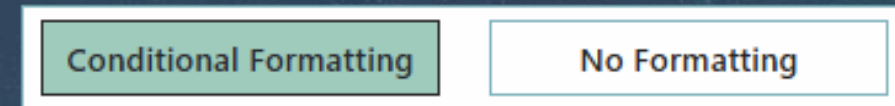
- Create a table

Options	Description
1	Conditional Formatting
0	No Formatting

- Create a measure

```
1 Font Color Conditional Formatting =  
2 IF(MAX('Conditional Formatting'[Options]) =1  
3 &&  
4 [Sales YoY]> 0 ,  
5 "#9A9A9C",  
6 "#000000")
```

- Add a button slicer



- Conditional Formatting

Font color - Sales TY

Format style: Apply to:

What field should we base this on?

Slicer

Conditional Formatting

No Formatting

2025 Sales Report

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Conditional Formatting

No Formatting

2025 Sales Report

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Other Options

Monthly sales overview

To view the full table select a month and click on the button.

	Sales TY	Sales LY	Sales YoY
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Oct	€ 3.118,06	€ 4.539,13	
Nov	€ 7.786,46	€ 1.778,50	
Dec	€ 1.994,75	€ 3.970,27	

Click on a month and this button to drill through.

2025 Sales Report

Month	Sales TY	Sales LY
Jan	€ 2.867,46	€ 3.073,44
Feb	☆ € 395,70	€ 10.455,49
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2025 Sales Report

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Nov	€ 7.786,46	€ 1.778,50
Dec	€ 1.994,75	€ 3.970,27

Icons - Sales YoY



Format style

Rules



Apply to

Values only



What field should we base this on?

Sales YoY



Icon layout

Left of data



Icon alignment

Top



Style

Custom



Rules

↕ Reverse icon order

+ New rule

If value

=



100

Percent



then



If value

=



0

Percent



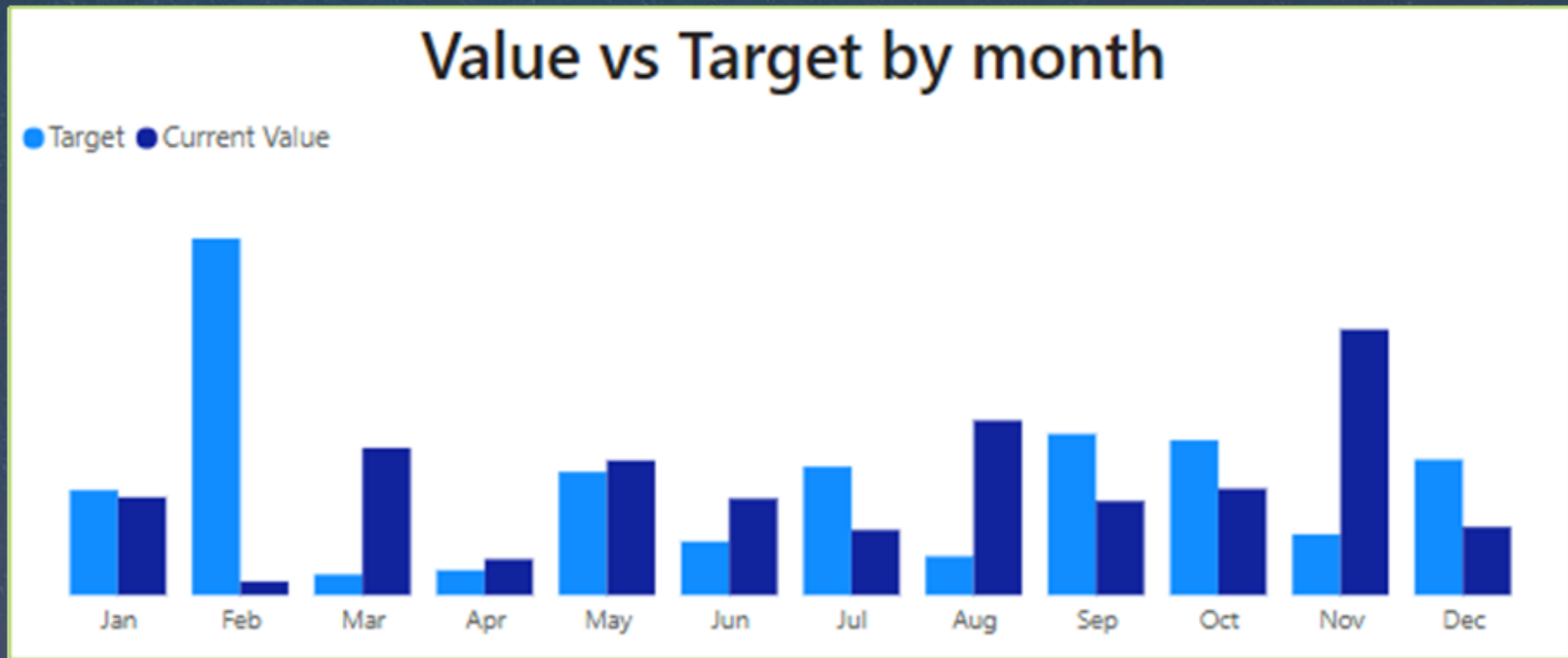
then



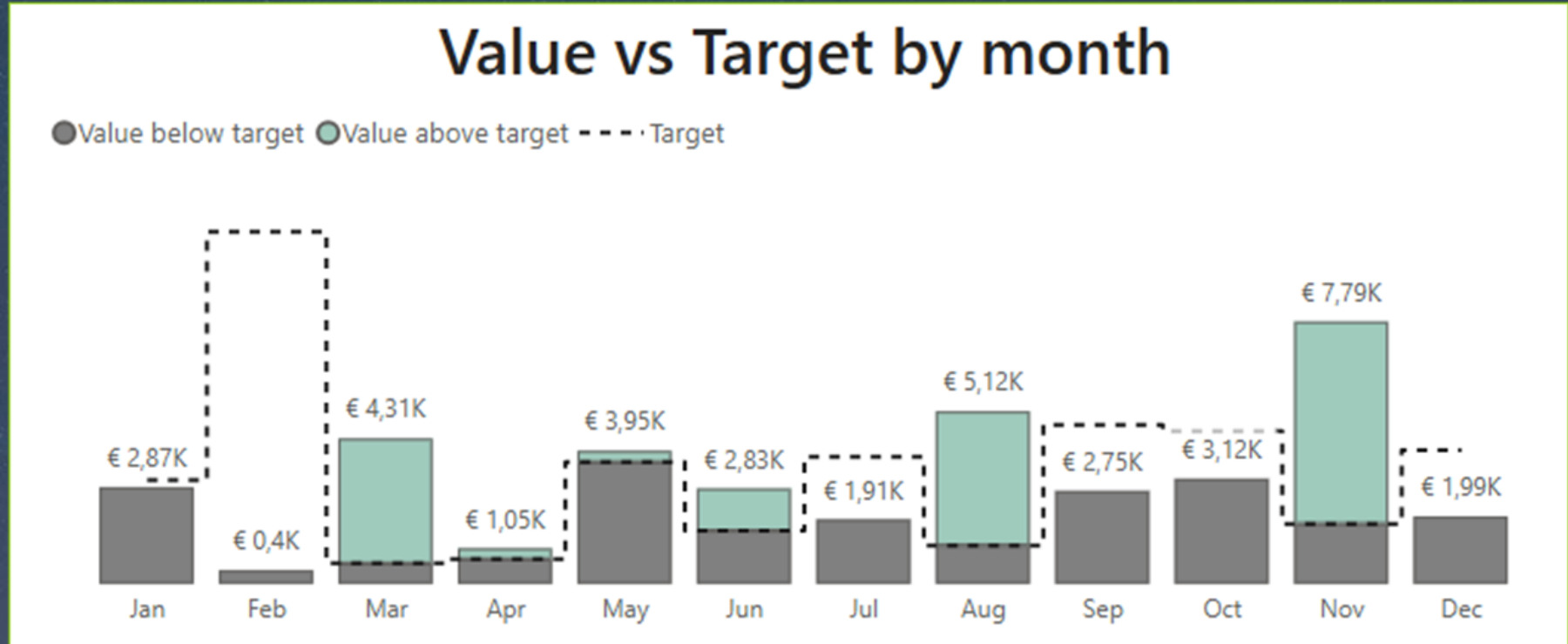
Column Charts & Targets



Targets



Targets

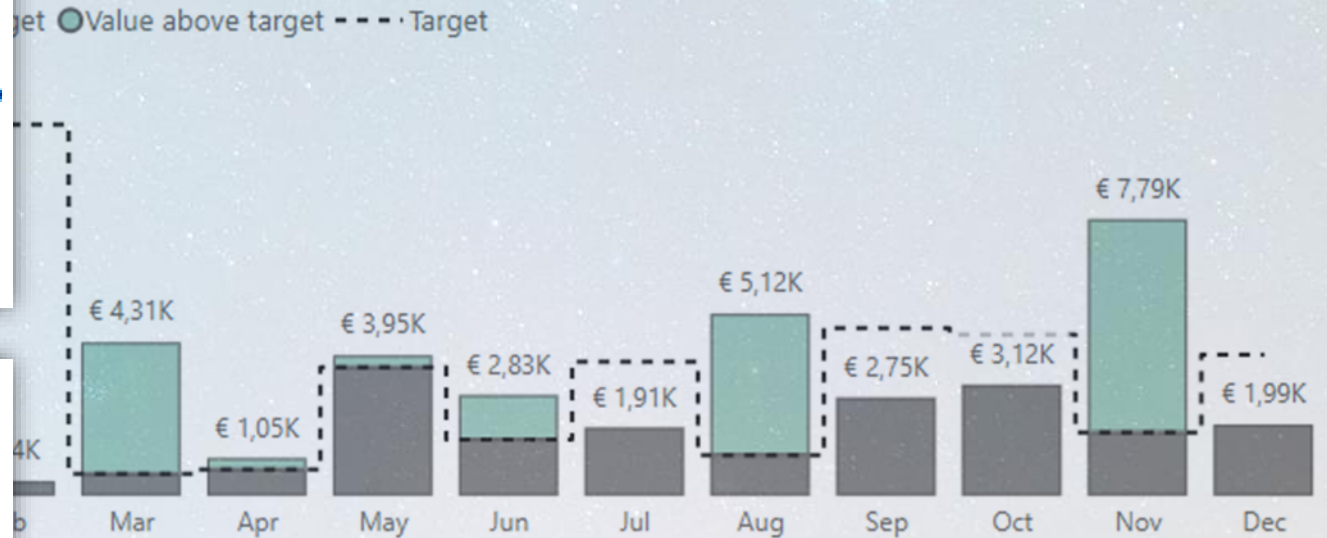


Targets

```
1 Value below target =  
2 IF([Current Value]<[Target],  
3 [Current Value],  
4 [Target])
```

```
1 Value above target =  
2 IF([Current Value]> [Target],  
3 [Current Value] - [Target],  
4 blank())
```

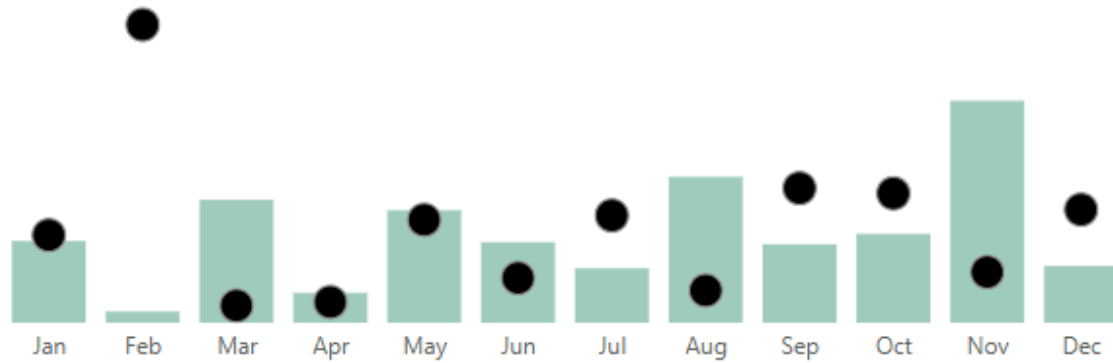
Value vs Target by month



Targets

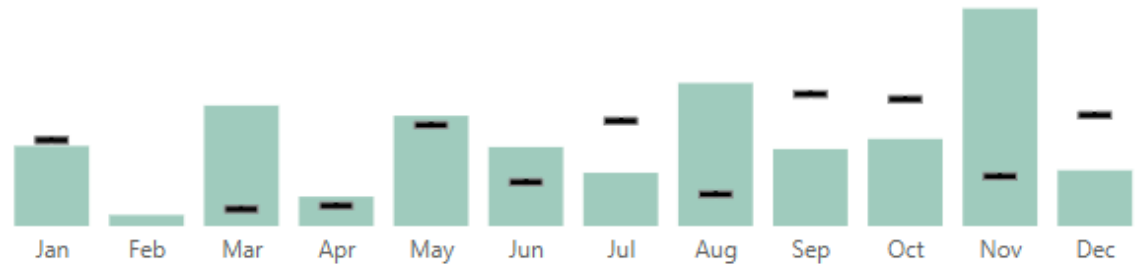
Value vs Target by month

Circles are target values



Target by month

Target values



Targets

Options

Enabled

On

Type

By field

Upper bound

Sales LY

Lower bound

Sales LY

Relationship to measure

Absolute

Make symmetrical

Off

Bar

On

Match series color

Off

Bar color

Width

1

Border color

Border size

1 px

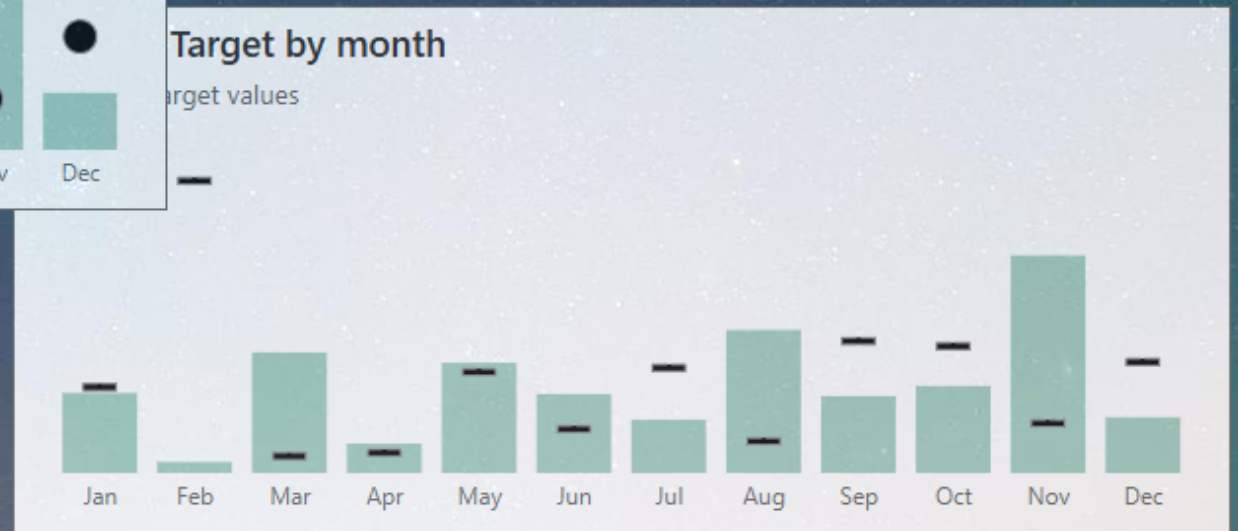
Markers

On

Marker shape

Size

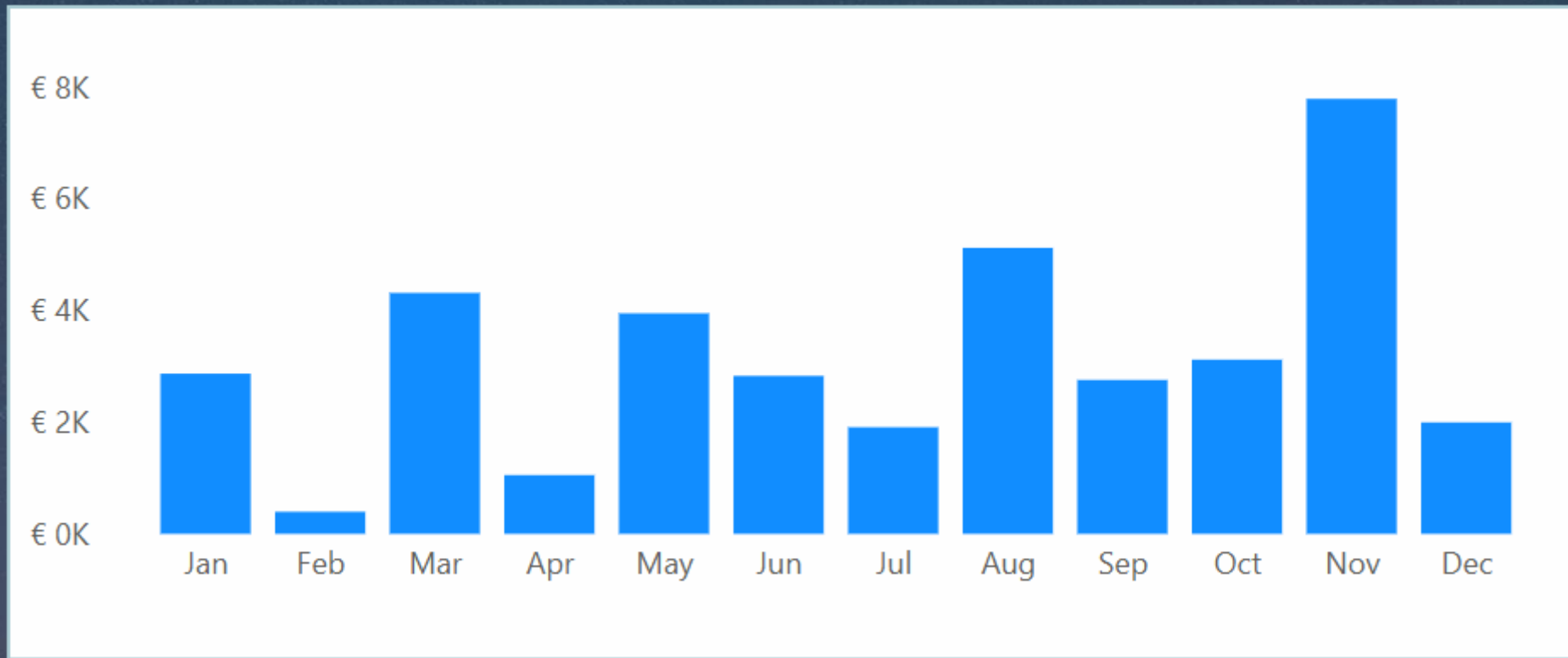
10 px



Actions Highlight



Highlight



Highlight



Highlight

€ 8K

Color - Categories



Format style

Rules



What field should we base this on?

Sales TY

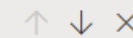


Rules

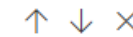
↕ Reverse color order

+ New rule

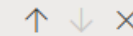
If value \geq 0 Percent and \leq 100 Percent then



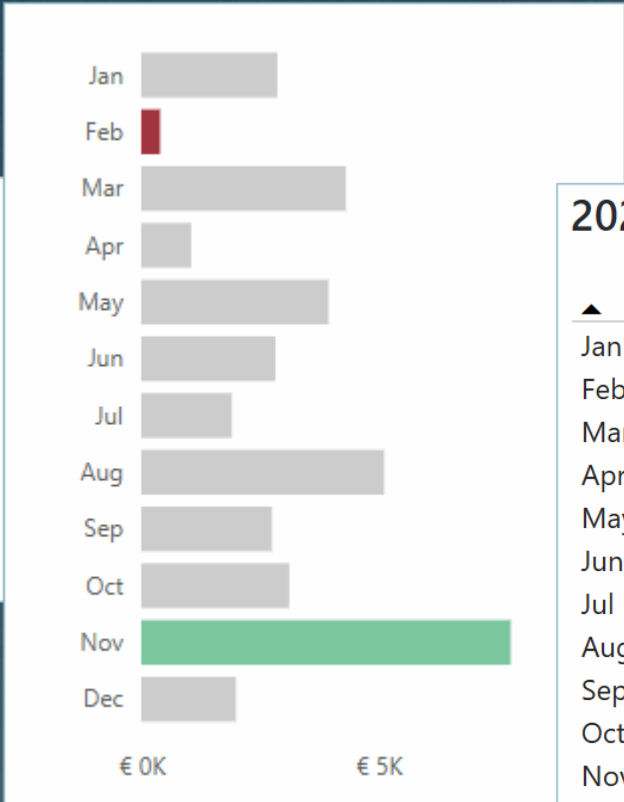
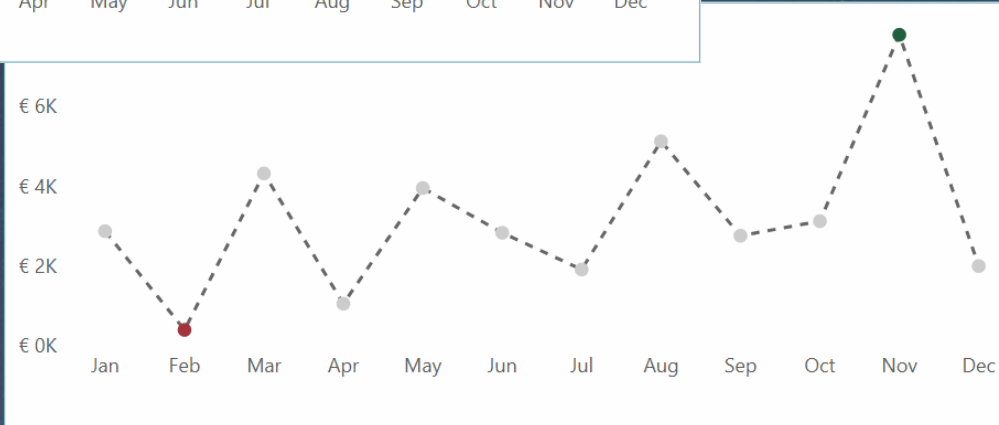
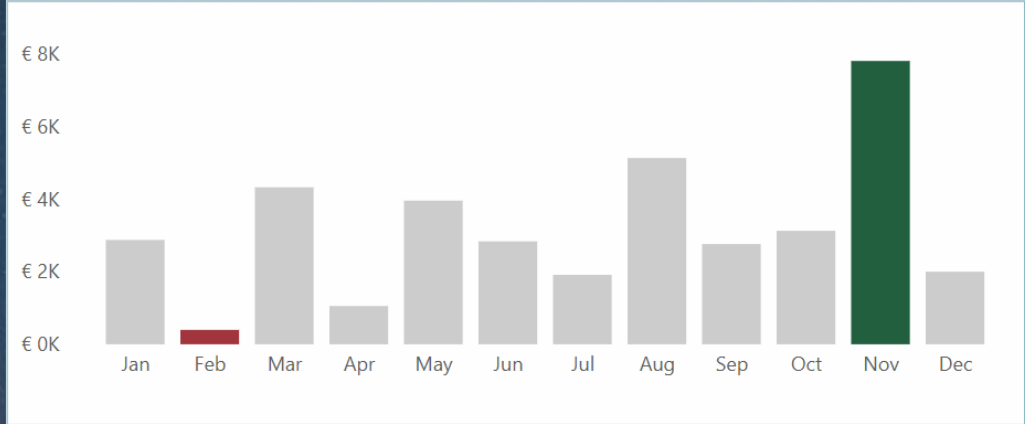
If value = 0 Percent then



If value = 100 Percent then



Highlight



2025 Sales Report		
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Don't let the user guess!

Monthly sales overview

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Click on a month and this button to drill through.

- 1. Prioritize the User**
- 2. Focus on Value and Actions**
- 3. Make It Shine, But Be Picky**
- 4. Adapt and Evolve**