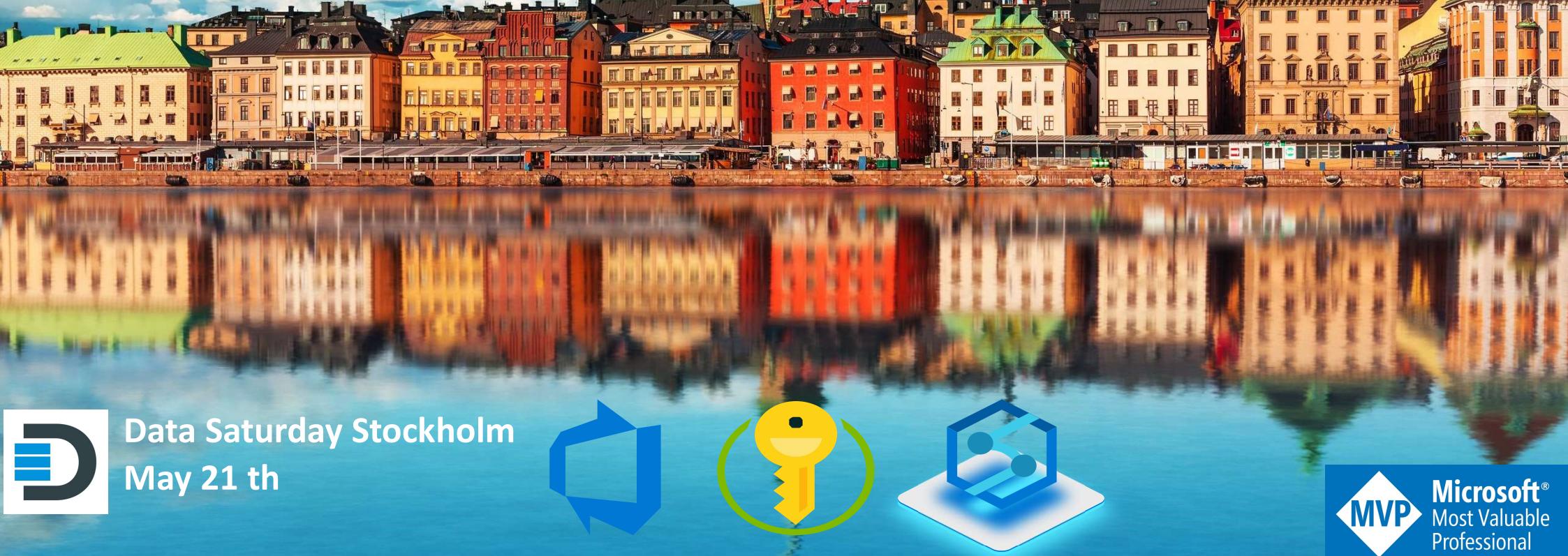
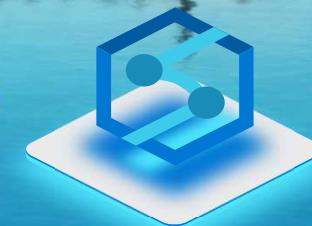


Azure Key Vault, Azure DevOps and Azure Synapse Analytics

how do these Azure Services work perfectly together!



Data Saturday Stockholm
May 21 th



Erwin de Kreuk
InSpark



@erwindekreuk
<https://erwindekreuk.com>

We Are InSpark

We help organizations
accelerating their digital
transformation with impactful
Microsoft solutions & expertise

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Analytics Award





Attollo



B3 Consulting Group



Quest Software



SQL Service



dbWatch



Transmokopter SQL



Catman Solution



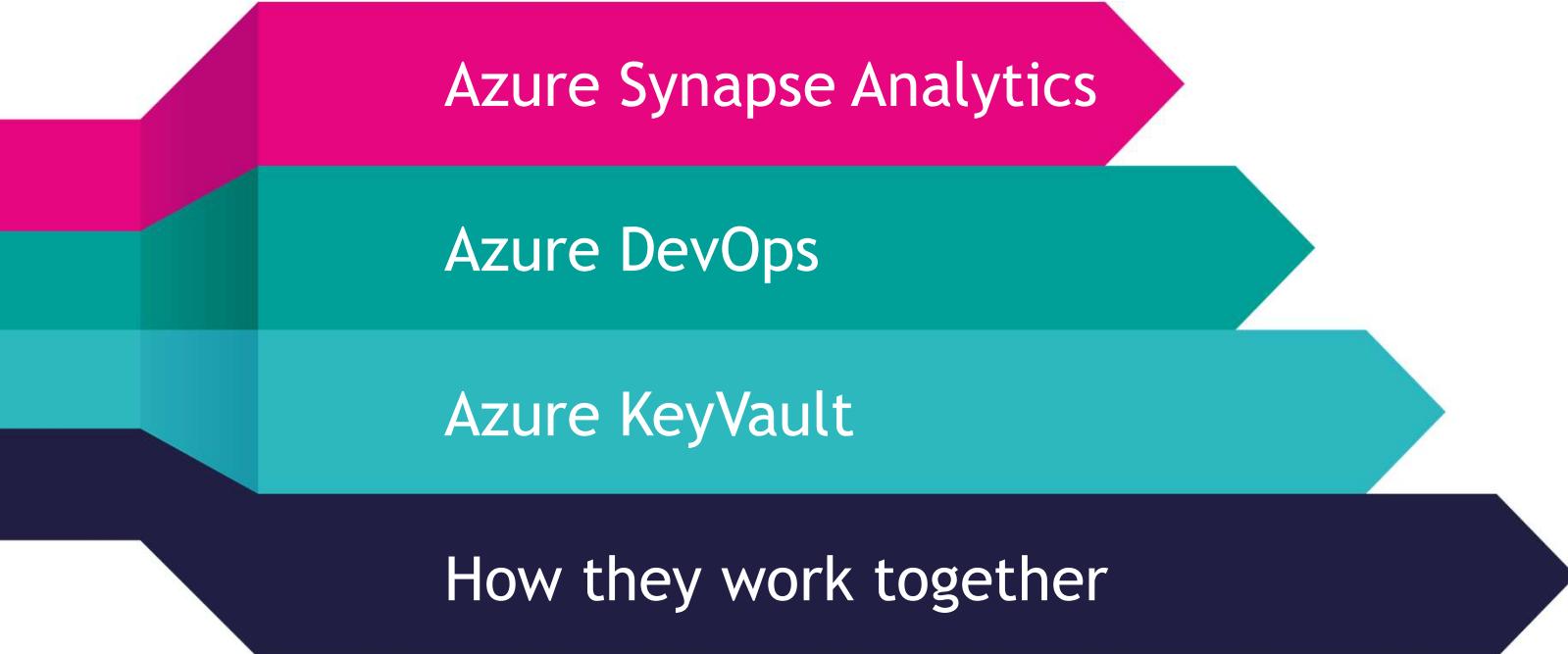
DB24



Redgate Software



Agenda



Azure Synapse Analytics

Azure DevOps

Azure KeyVault

How they work together

Azure Synapse Analytics

The first unified cloud native platform

The first unified, cloud native platform for converged analytics

Azure Synapse is the only unified platform for analytics, blending big data, data warehousing, and data integration into a single cloud native service for end-to-end analytics at cloud scale.



Azure Synapse Analytics

Cloud-native analytics service engine

Powered by a new cloud native distributed SQL engine



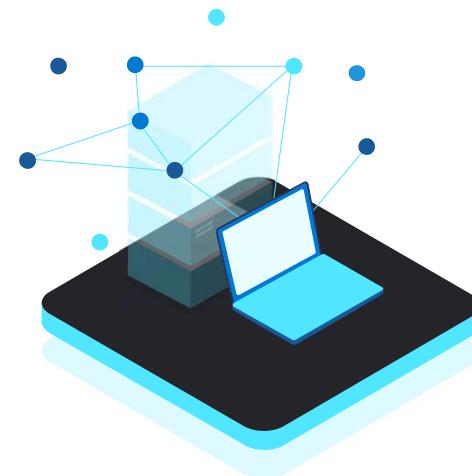
Azure Synapse Analytics

Serverless + dedicated SQL

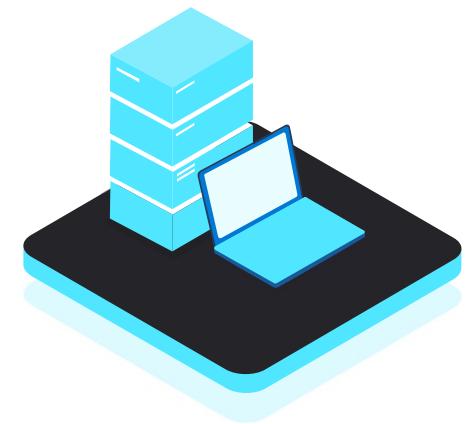
Flexible consumption models

Serverless pay-per-query ideal for ad-hoc data lake exploration and transformation

Dedicated clusters optimized mission-critical data warehouse workloads



Serverless



Dedicated

“DevOps is the union of people, process, and products to enable continuous delivery of value to your end users”

Donovan Brown



Azure DevOps



Azure Boards



Azure Pipelines



Azure Repos



Azure Test Plans



Extensions Marketplace

Extensions for Azure DevOps

Search Azure DevOps extensions

Featured

Timetracker
7pace FREE TRIAL
10.5K

Retrospectives
Microsoft DevLabs FREE
9K

Azure Cost Insights
Kees Schollaart FREE
1.9K

Code Quality NDepend
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1.1K

Bravo Notes
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Microsoft FREE
31.3K

SonarQube
SonarSource FREE
31.3K

Trending [this week](#)

Cascading Lists
Microsoft DevLabs FREE
152

Terraform
Microsoft DevLabs FREE
879

DevOps for Azure Data
Microsoft DevLabs FREE
344

Replace Text in Source
Samayas FREE
165

Twistcli Build and Release
Twistlock FREE
125

WinAppDriver
Microsoft FREE
266



Azure Key Vault

What is Azure Key Vault?

The safehouse to safeguard the cryptographic keys and secrets that are used by your applications, servers and cloud applications

Fully integrated with Azure Active Directory

Secret management: Securely store and tightly control access to tokens, passwords, certificates, API keys, and other secrets.

Key management: Create and control encryption keys that encrypt your data.

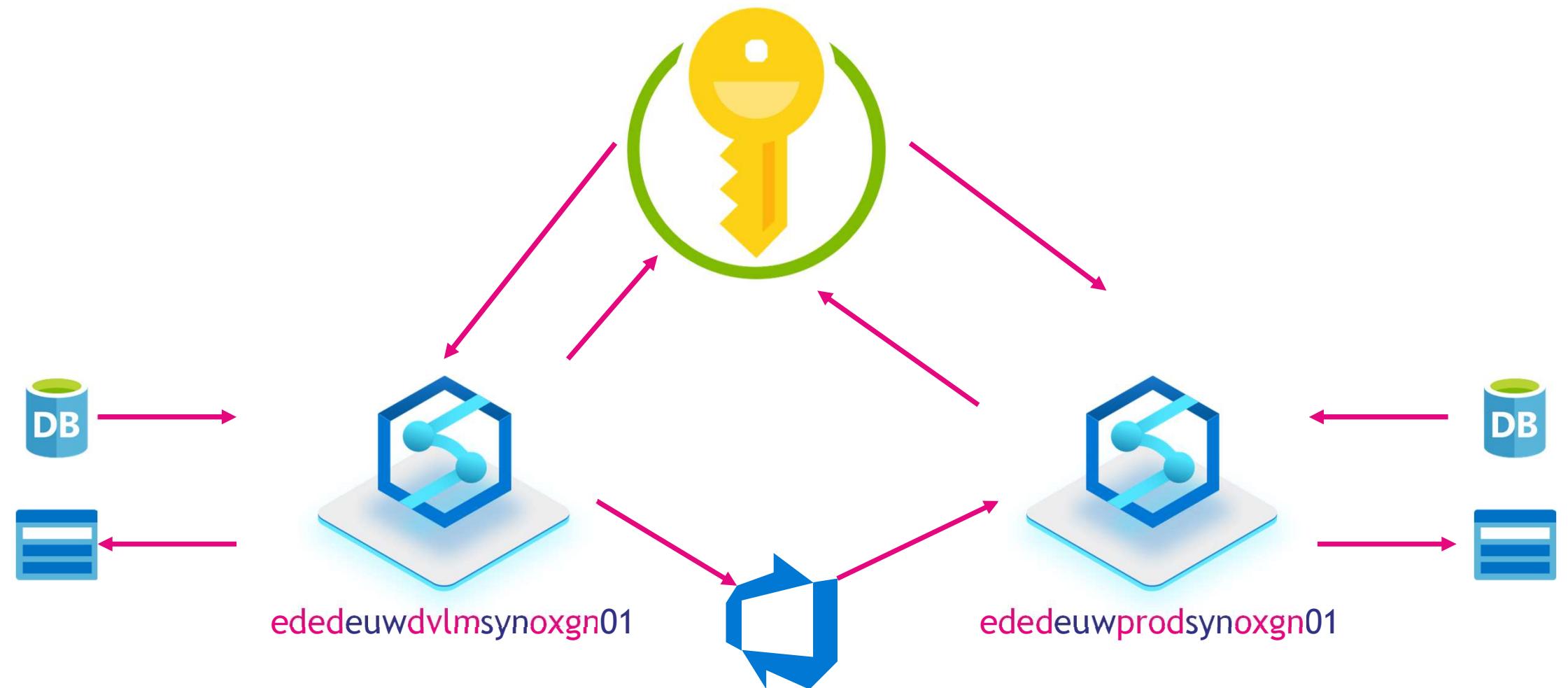
Certificate management: Provision, manage, and deploy public and private Secure Sockets Layer/Transport Layer Security (SSL/TLS) certificates for use with Azure and your internal connected resources.

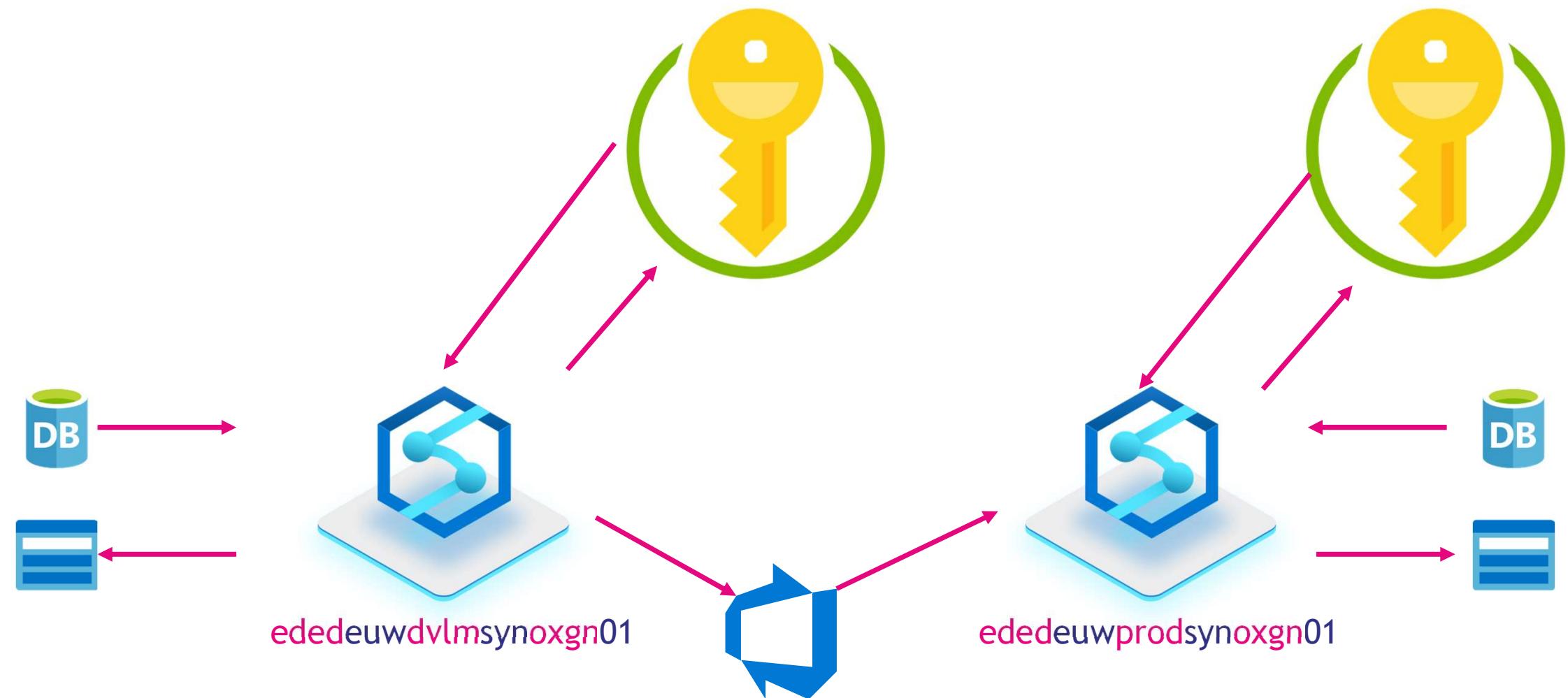


Azure Key Vault

Roles

Security Operations	Developer	Auditor
<p>Manages Keys</p> <p>Creates a Key Vault in Azure</p> <p>Add keys / secrets to the Key Vault</p> <p>Grants Permission to specific applications to perform specific operations using keys</p> <p>Enables usage logs</p>	<p>Deploys Application</p> <p>Tells the application the URI of the key / secret</p> <p>Configures the application to use key / secret (and may abuse), but never sees the keys</p>	<p>Monitors access to keys</p> <p>Reviews usage logs to confirm proper key use and compliance with data security standards</p>





An even more secure approach

Create Workspace

Create a Synapse Workspace for every environment

Define naming conventions

customername-region-environment-azureservice-department



ededeuw**dvlmsynoxgn01**



ededeuw**prodsynoxgn01**



Azure Synapse Analytics

Set up Code Repository



Azure Synapse Analytics

Set up Code Repository

Configure a repository

Specify the settings that you want to use when connecting to your repository.

Repository type * ⓘ

Select...

 Azure DevOps Git

 GitHub

Configure a repository

Specify the settings that you want to use when connecting to your repository.

Repository type * ⓘ

 Azure DevOps Git

Azure Active Directory ⓘ

MSDN Erwin ()

Specify the settings that you want to use when connecting to your repository.

Select repository Use repository link

Azure DevOps organization name * ⓘ

erwindekreuk

Project name * ⓘ

DEMO_DevOps

Repository name * ⓘ

Demo

Collaboration branch * ⓘ

develop

Publish branch * ⓘ

workspace_publish

Root folder * ⓘ

/

Import existing resource

Import existing resources to repository

Import resource into this branch ⓘ

develop

Azure Synapse Analytics

Create Linked Services

Azure SQL DB

LS_ASQLENV01_WWI

Azure Blob Storage

LS_ABLB_ENV01

The screenshot shows a GitHub-style interface for a repository named 'linkedService'. The path is 'main / AzureSynapse / synoxgn02 / linkedService'. A message at the top indicates an update to 'workspace_publish' 24m ago. The 'History' tab is selected, showing a list of commits:

Name	Last change	Commits
ededeuwvdvmsynoxgn01-WorkspaceDefaultSql...	3h ago	d2fd812d Updating credential: WorkspaceSyst...
ededeuwvdvmsynoxgn01-WorkspaceDefaultSto...	3h ago	d2fd812d Updating credential: WorkspaceSyst...
LS_ABLB_ENV01.json	27m ago	f87e2f72 Updating linkedService: LS_ABLB_E...
LS_ASQLENV01_WWI.json	26m ago	5c5ebcb3 Updating linkedService: LS_ASQLE...

Directly saved in Azure DevOps !!



Azure Synapse Analytics

Create Linked Services

Azure SQL DB

LS_ASQLENV01_WWI

Azure Blob Storage

LS_ABLB_ENV01

Azure	Abbreviation	Linked Service	Dataset
Azure Blob Storage	ABLB_	LS_ABLB_	DS_ABLB_
Azure Cosmos DB SQL API	ACSA_	LS_ACSA_	DS_ACSA_
Azure Cosmos DB MongoDB API	ACMA_	LS_ACMA_	DS_ACMA_
Azure Data Explorer	ADEX_	LS_ADEX_	DS_ADEX_
Azure Data Lake Storage Gen1	ADLS_	LS_ADLS_	DS_ADLS_
Azure Data Lake Storage Gen2	ADLS_	LS_ADLS_	DS_ADLS_
Azure Database for MariaDB	AMDB_	LS_AMDB_	DS_AMDB_
Azure Database for MySQL	AMYS_	LS_AMYS_	DS_AMYS_
Azure Database for PostgreSQL	APOS_	LS_APOS_	DS_APOS_
Azure File Storage	AFIL_	LS_AFIL_	DS_AFIL_
Azure Search	ASER_	LS_ASER_	DS_ASER_
Azure SQL Database	ASQL_	LS_ASQLE_	DS_ASQLE_
Azure SQL Database Managed Instance	ASQM_	LS_ASQM_	DS_ASQM_

More naming conventions check:

<https://erwindekreuk.com/2019/04/azure-data-factory-naming-conventions/>

INSPARK

Azure Synapse Analytics

Create Datasets

DS_ABLB_ENV01

DS_ASQI_ENV01_WWI

The screenshot shows the Azure DevOps interface for a workspace named "workspace_publish". The top navigation bar includes "Pipelines", "Datasets", "Data flows", "Integration runtimes", and "Linked services". A red box highlights the "workspace_publish" branch under "Publish branch". The "Pending changes" section lists the following items:

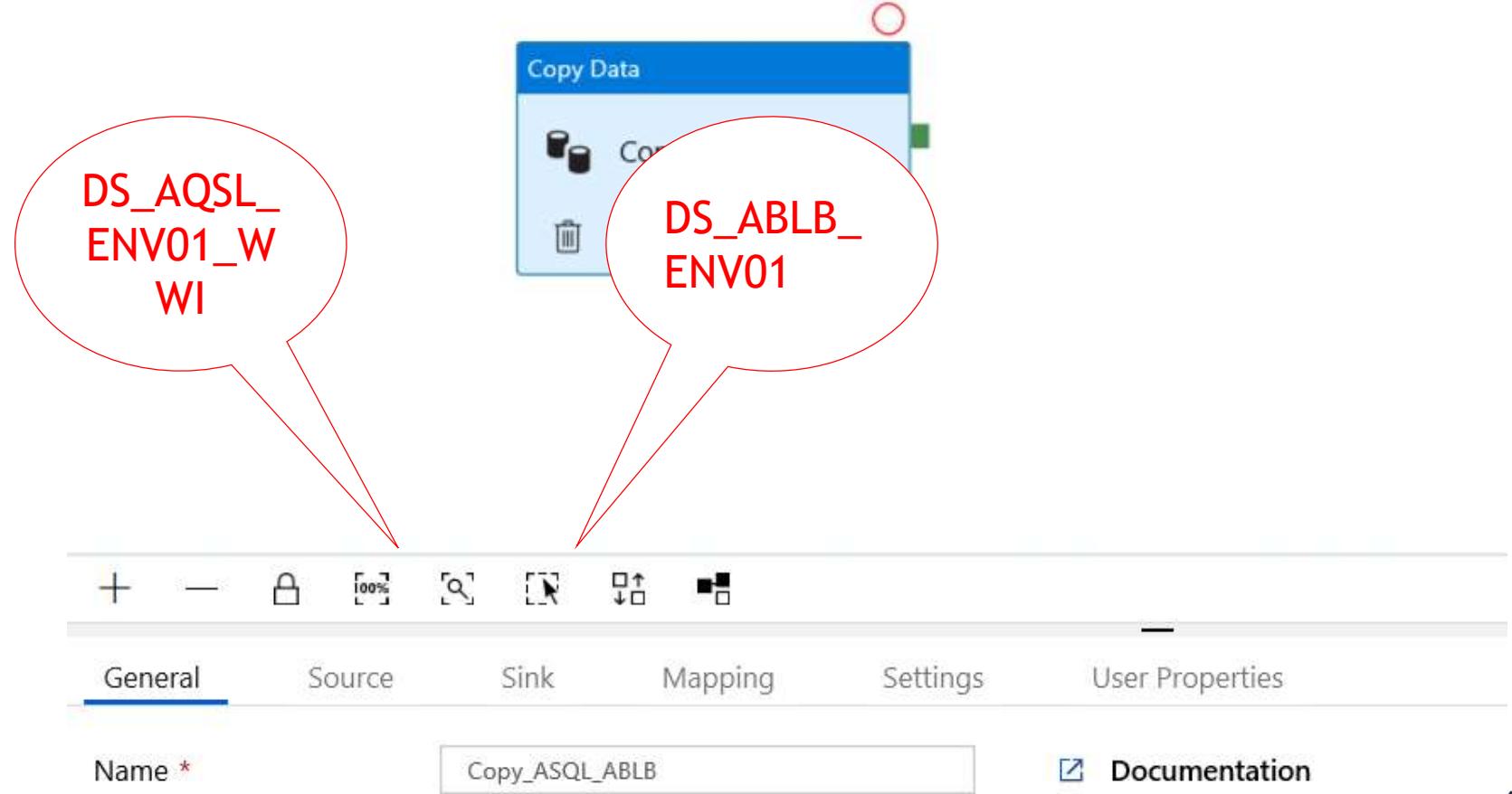
- Pipelines:
 - PL_TRANS_ASQI_ABLB (New)
- Datasets:
 - DS_ABLB_ENV01 (New)
 - DS_ASQI_ENV01_WWI (New)
- Data flows
- Integration runtimes
- Linked services:
 - LS_ABLB_ENV01 (New)

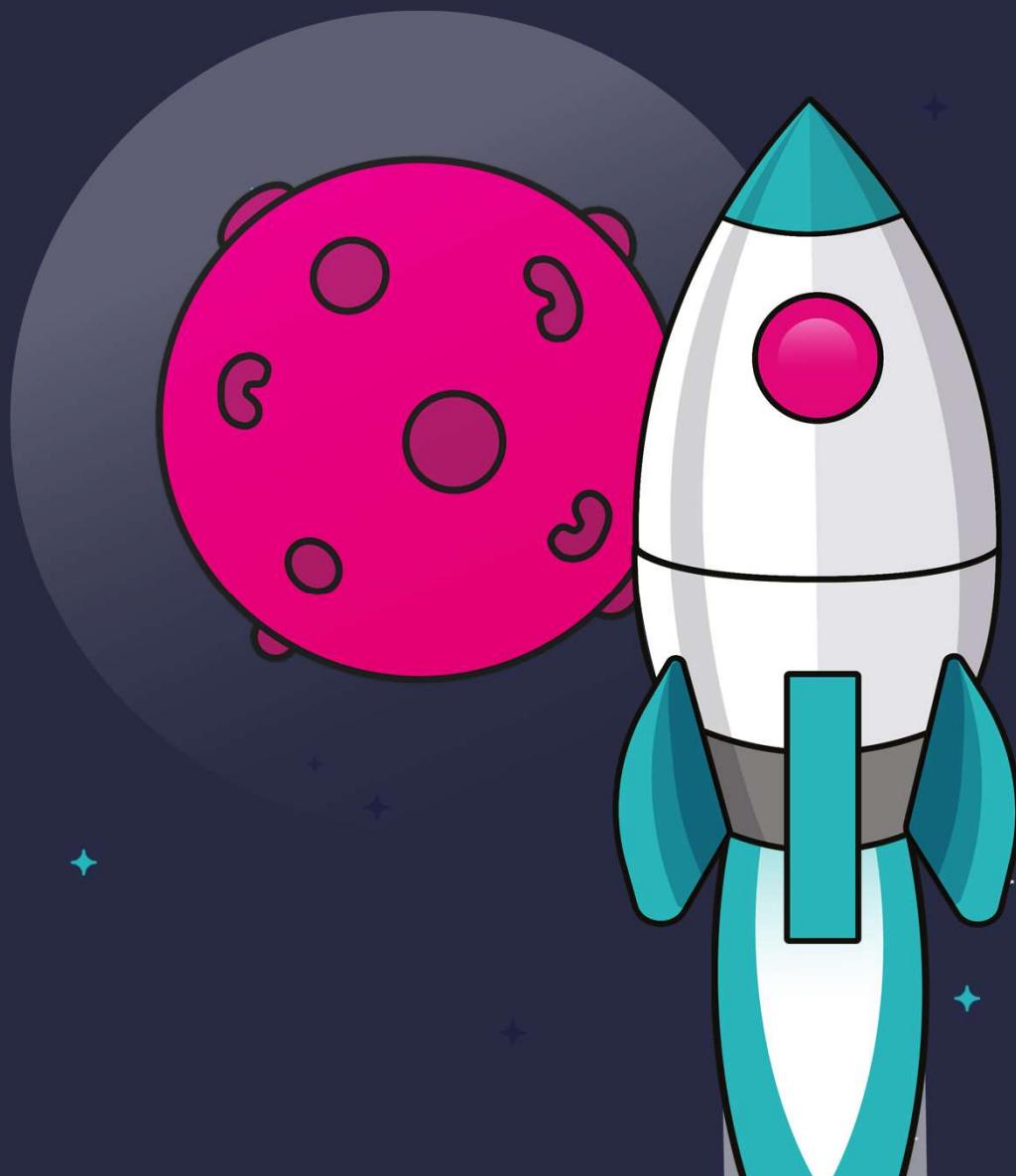
At the bottom, a message says "You updated workspace_publish Just now" and there are buttons for "Create a pull request" and "X".

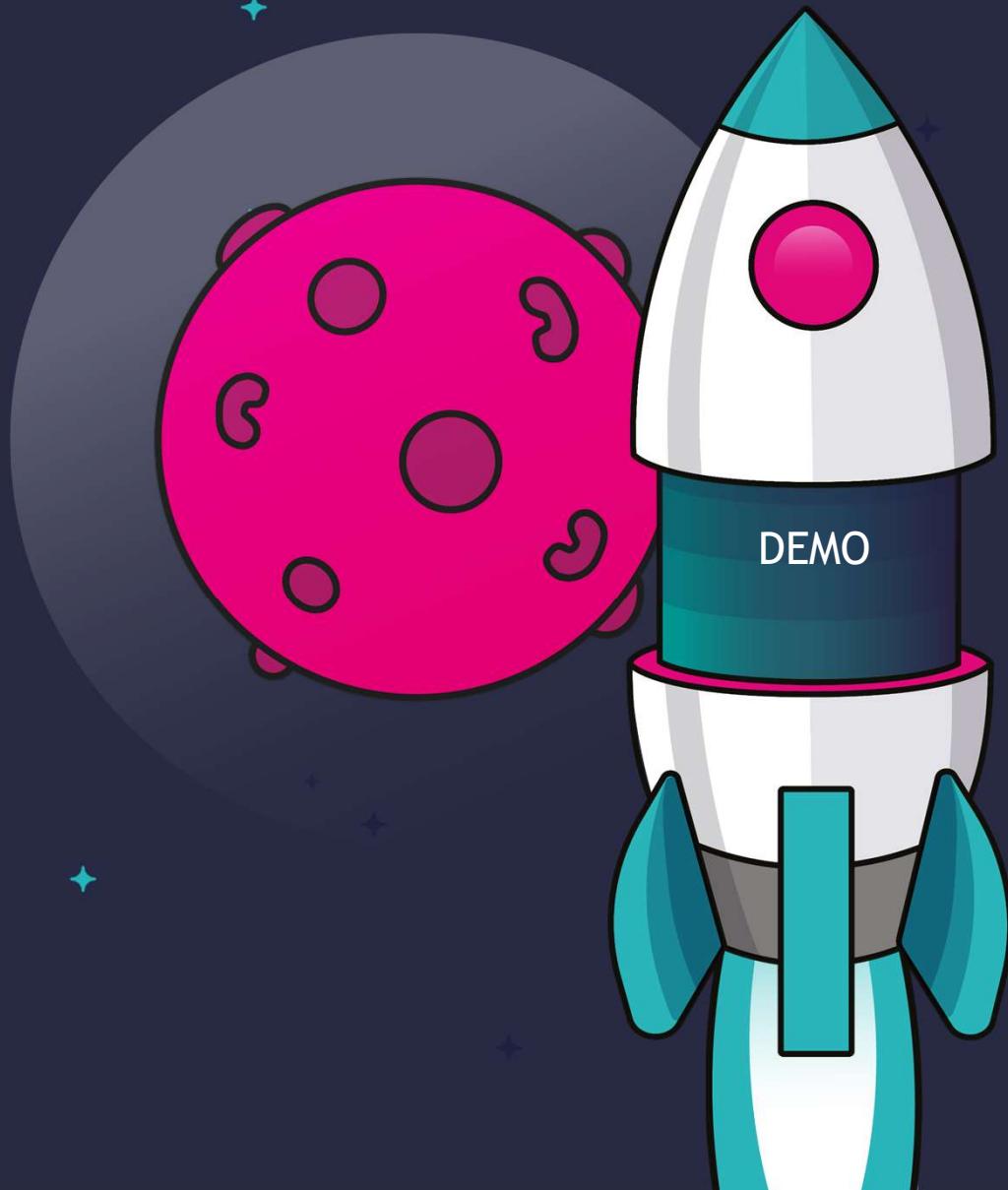
Azure Synapse Analytics

Create Pipeline

PL_COPY_WWI_ABLB

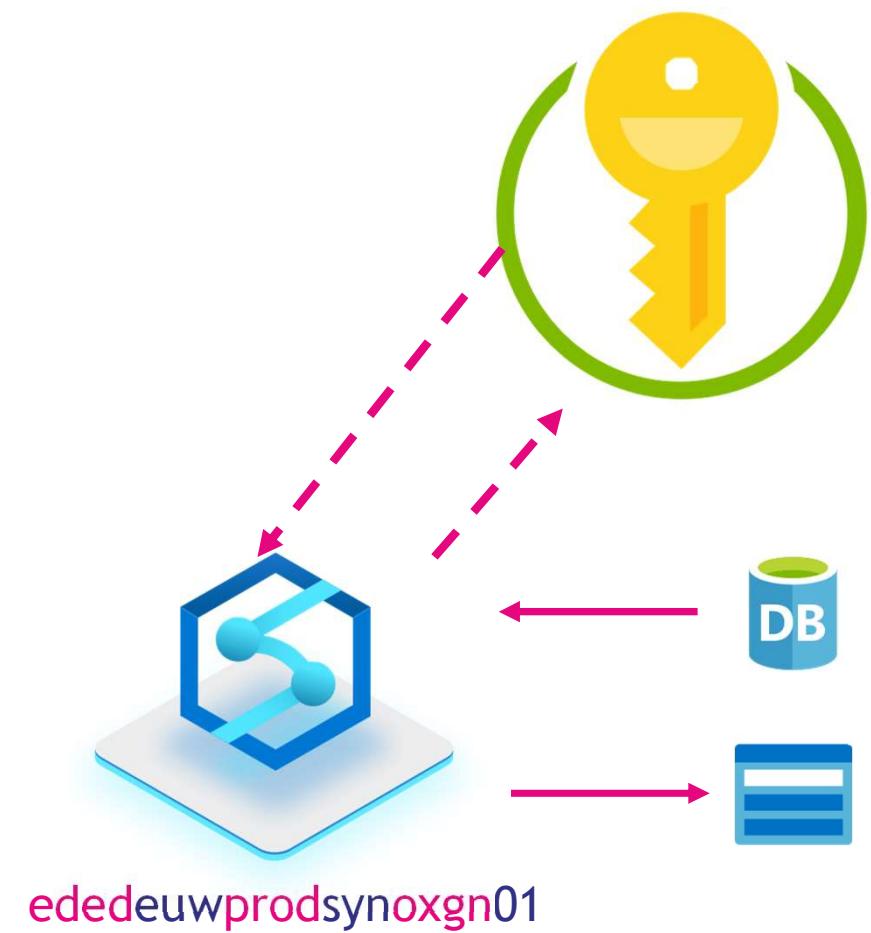
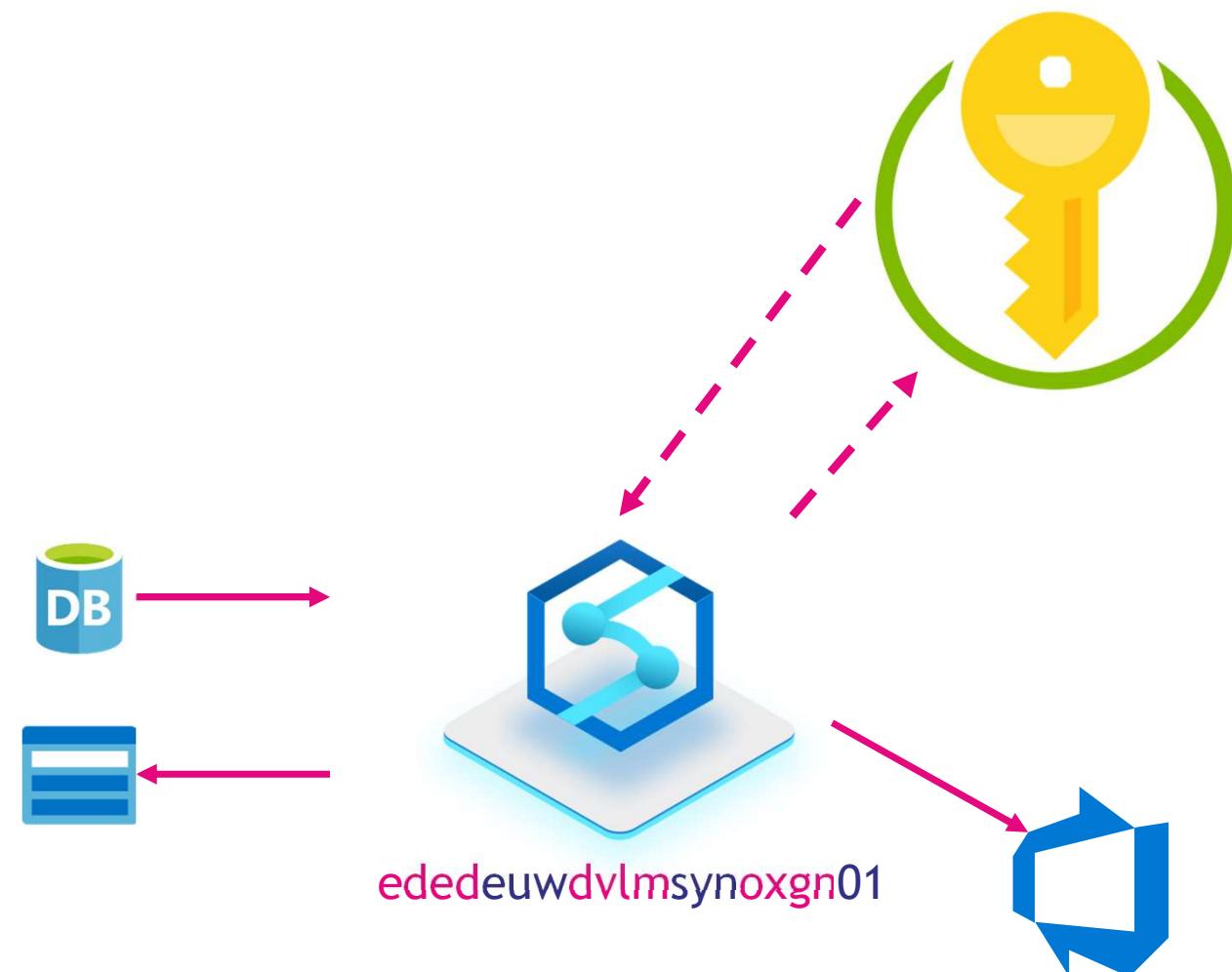






Innovate to accelerate

DEMO



Azure Key Vault

Create Key Vault

ededeudv1mvaultoxgn01

Subscription * Microsoft Azure Sponsorship

Resource group * EDED-EUW-DEVELOPMENT-OXYGEN-RG
Create new

Instance details

Key vault name * ededeudv1mvaultoxgn0

Region * West Europe

Pricing tier * Standard

```
$SubscriptionName = "xxxxxxxxxxxxxxxxxxxx"  
$ResourceGroupName = "EDED-EUW-DEVELOPMENT-OXYGEN-RG"  
$KeyvaultName="ededeudv1mvaultoxgn01"  
$Location="West Europe"
```

```
Connect-AzAccount  
Select-AzSubscription -SubscriptionName $SubscriptionName  
New-AzKeyVault -Name $KeyvaultName -ResourceGroupName $ResourceGroupName -location $Location
```

Azure Key Vault

Grant Access

Grant the Azure Synapse access to your Azure KeyVault.

Add access policy ...

Add access policy

Configure from template (optional)

Key permissions

0 selected

Secret permissions

2 selected

Select all

Secret Management Operations

Get

List

Set

Certificate permissions

Select principal *

Authorized application (i)

Azure Key Vault

Connecting in Azure Synapse

Create a new Linked Service

- Authentication Method
- Subscription
- Key Vault Name

New linked service



Azure Key Vault

Choose a name for your linked service. This name cannot be updated later.

Name *

LS_AKV_KEYVAULT01

Description

Authentication method

System Assigned Managed Identity

Azure key vault selection method ⓘ

From Azure subscription Enter manually

Azure subscription ⓘ

Select all

Azure key vault name *

Select...



Managed identity name: ededeuwdylmsynoxgn01

Managed identity object ID:

Grant workspace service managed identity access to your Azure Key Vault. [Learn more](#)

Be aware that you need to publish the Azure Key Vault before you start using secrets !

 INSPARK

Azure Key Vault

Creating secrets

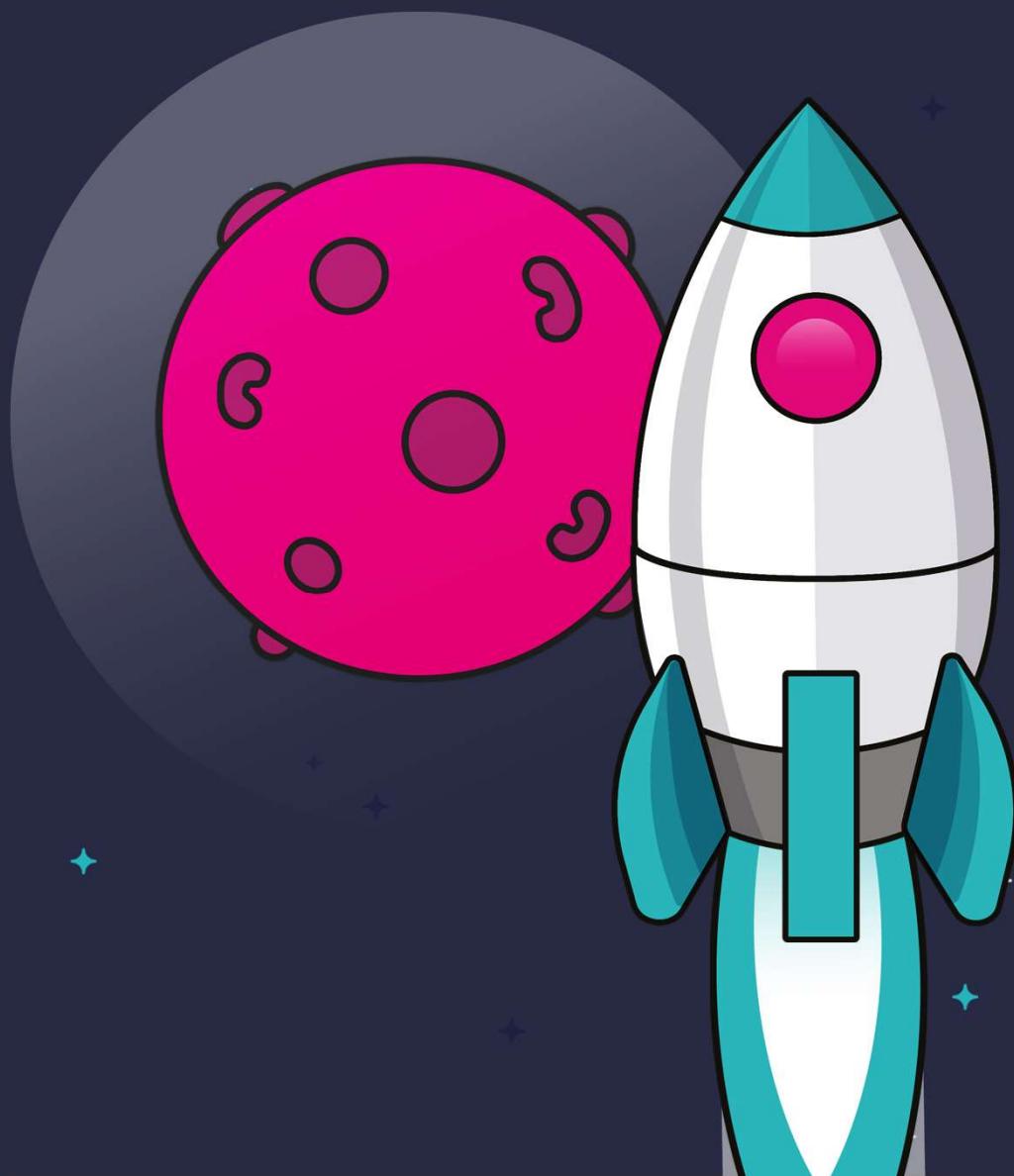
ABLB-ENV01

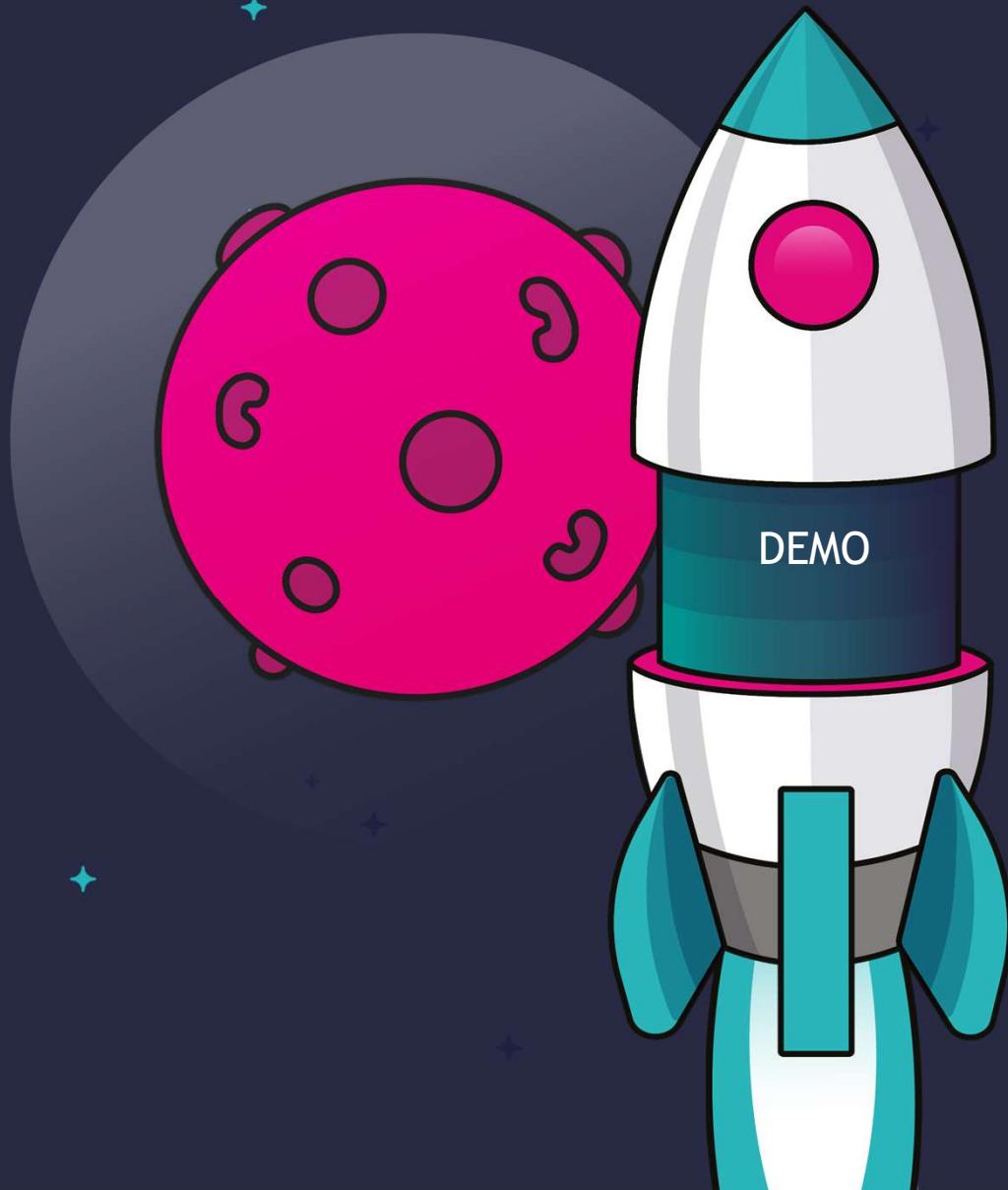
ASQL-ENV01-WWI

The use of naming conventions ensures that we can
configure everything more dynamically in the release process later on !

ENVIRONMENT-CONNECTION-REFERENCE	
Environment	
Development	DVLM
Test	TEST
Acceptance	ACPT
Production	PROD
Linked Service	
Azure Blob Storage	ABLB
Azure Cosmos DB SQL API	ACSA
Azure Cosmos DB MongoDB API	ACMA
Azure Data Explorer	ADEX
Azure Data Lake Storage Gen1	ADLS
Azure Data Lake Storage Gen2	ADLS
Azure Database for MariaDB	AMDB
Azure Database for MySQL	AMYS
Azure Database for PostgreSQL	APOS
Azure File Storage	AFIL
Azure Search	ASER
Azure SQL Database	ASQL
Azure SQL Database Managed Instance	ASQM
Azure SQL Data Warehouse	ASDW
Azure Table Storage	ATBL
SQL Server	MSQL
Reference	
DatabaseConnection	LogicalServer(Short)-DatabaseName
Storage	StorageName like Audit/SSIS/Staging/DataLake

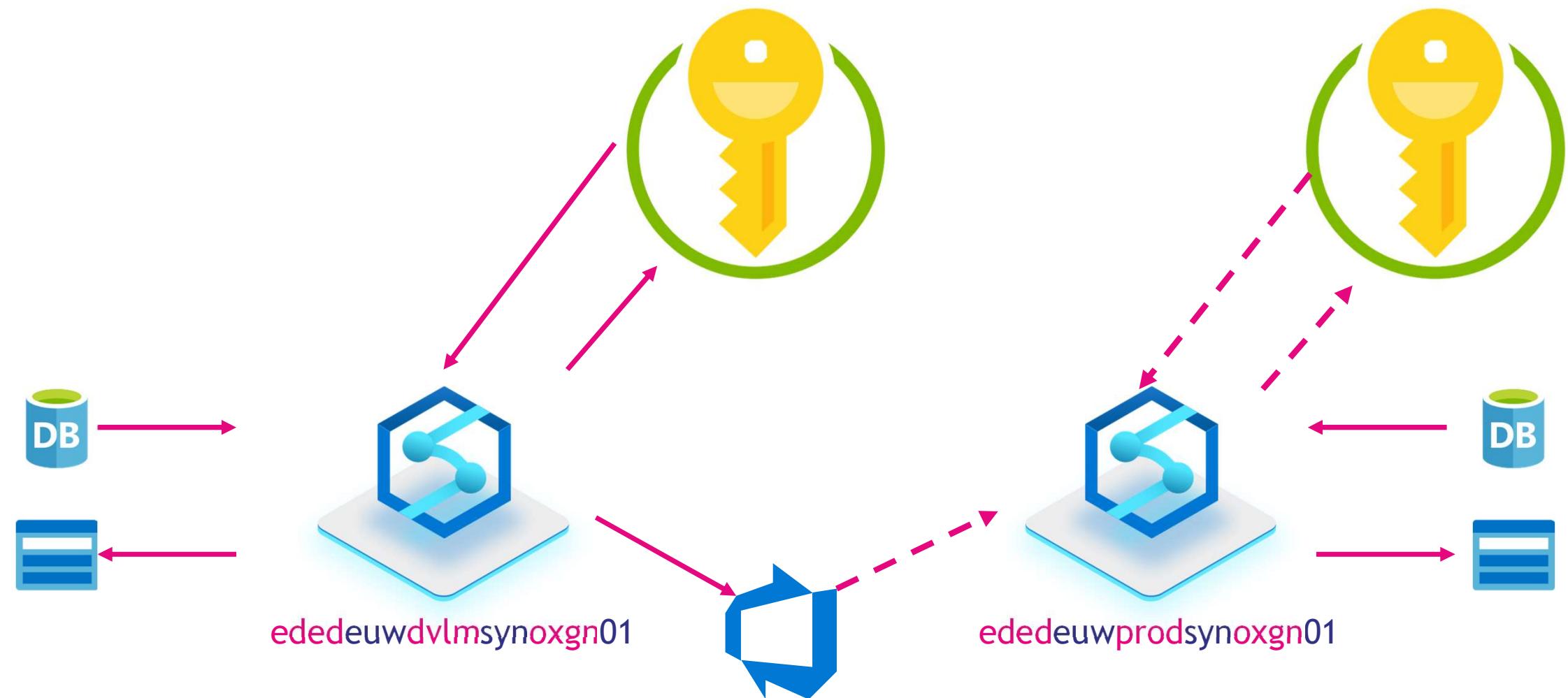






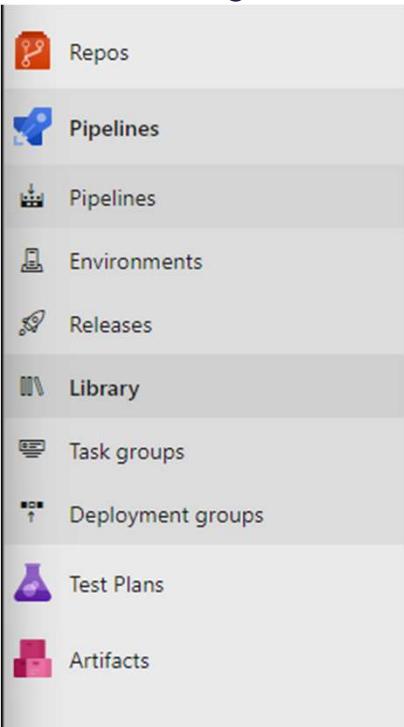
Innovate to accelerate

DEMO



Create library

Configure the correct values



Azure DevOps sidebar navigation menu:

- Repos
- Pipelines
- Pipelines
- Environments
- Releases
- Library
- Task groups
- Deployment groups
- Test Plans
- Artifacts

Properties

Variable group name: Development Environment

Description:

Link secrets from an Azure key vault as variables (i)

Variables

Name ↑	Value
SynapseResourceGroupName	EDED-EUW-DEVELOPMENT-OXYGEN-RG
AzureSynapseWorkspace	ededeuwvd1msynoxgn01

Library

Variable groups Secure files + Variable group

Name ↑
Acceptance Environment
Production Environment
Test Environment

Azure DevOps

Extension

Add Synapse Workspace Deployment Extension



Azure DevOps

Synapse workspace deployment has been successfully updated

The extension [Synapse workspace deployment by Microsoft](#) has been updated successfully on erwindekreuk. No additional action is required.

[View extensions](#)

About this extension

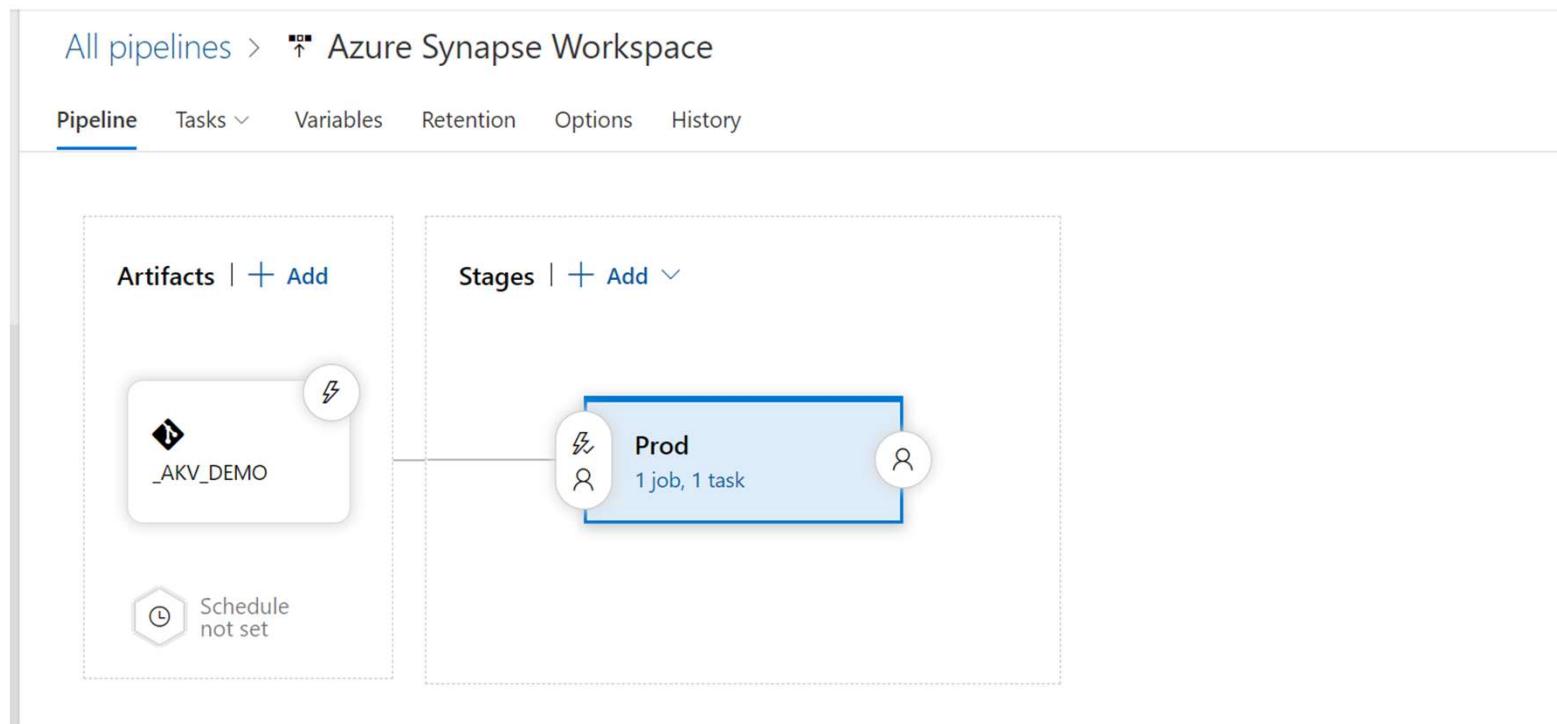
[Synapse workspace deployment by Microsoft](#)

Deployment task for synapse workspace.



[Learn more](#)

Create release in Azure DevOps



Create release

Create a Release based on an Empty Job

Select a template

Or start with an  [Empty job](#)

Featured



Azure App Service deployment

Deploy your application to Azure App Service. Choose from Web App on Windows, Linux, containers, Function Apps, or WebJobs.



Deploy a Java app to Azure App Service

Deploy a Java application to an Azure Web App.



Deploy a Node.js app to Azure App Service

Deploy a Node.js application to an Azure Web App.



Deploy a PHP app to Azure App Service and Azure Database for MySQL

Deploy a PHP application to an Azure Web App and database to Azure Database for MySQL.



Deploy a Python app to Azure App Service and Azure database for MySQL

Deploy a Python Django, Bottle, or Flask application to an Azure Web App and database to Azure Database for MySQL.



Deploy to a Kubernetes cluster

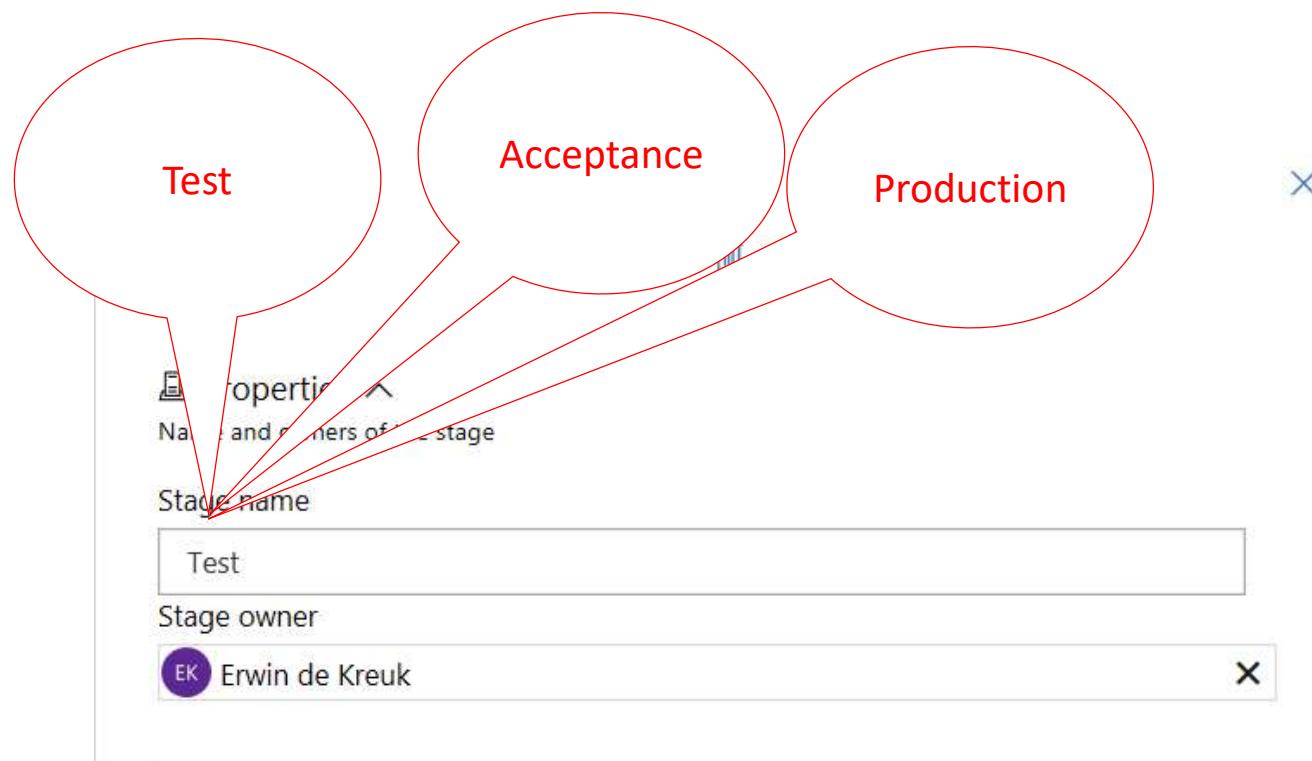
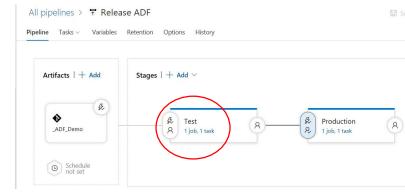
Deploy, configure, update your containerized applications to a Kubernetes cluster.

Azure DevOps

Create release

Create a Release based on an Empty Job

Create a Stage for each Environment



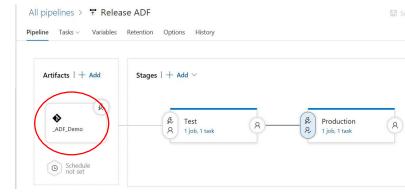
Azure DevOps

Create release

Create a Release based on an Empty Job

Create a Stage for each Environment

Add an Artifact



Add an artifact

Source type



5 more artifact types ▾

Project * ⓘ

DEMO_DevOps

Source (repository) * ⓘ

AKV_DEMO

Default branch * ⓘ

workspace_publish

Default version * ⓘ

Latest from the default branch

Checkout submodules ⓘ

Checkout files from LFS ⓘ

Azure DevOps

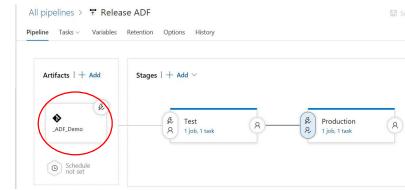
Create release

Create a Release based on an Empty Job

Create a Stage for each Environment

Add an Artifact

Enable Continuous Deployment



Continuous deployment trigger

Git: _DEMOADFV2

Disabled

(i) Enabling the trigger will create a new release every time a Git push happens to the selected repository.

Pull request trigger

Git: _DEMOADFV2

Disabled

(i) Enabling this will create a release every time a selected artifact is available as part of a pull request workflow

INSPARK

Azure DevOps

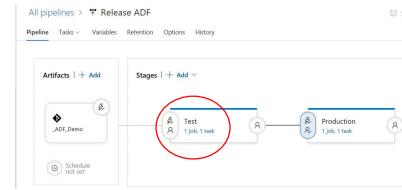
Create release

Create a Release based on an Empty Job

Create a Stage for each Environment

Add an Artifact

Enable Continuous Deployment



Continuous deployment trigger

Git: _AKV_DEMO

Enabled

Creates a release every time a Git push occurs in the selected repository.

Branch filters (i)

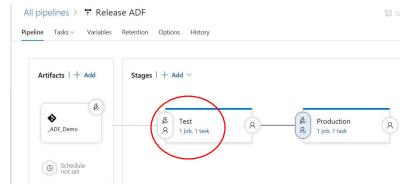
Type	Branch
Include	workspace_publish



Azure DevOps

Create task

Define an Agent



The screenshot shows the Azure DevOps Pipeline interface. At the top, there's a navigation bar with 'All pipelines' and a specific pipeline name 'Release ADF'. Below the navigation, there are sections for 'Artifacts' and 'Stages'. The 'Test' stage is highlighted with a red circle. The 'Agent job' section is expanded, showing a 'Display name' input field containing 'Agent job', an 'Agent selection' dropdown set to 'Azure Pipelines', and a list of 'Agent Specification' options. The option 'ubuntu-latest' is selected and highlighted with a red box.

Agent job ⓘ

Display name *

Agent job

Agent selection ^

Agent pool ⓘ | Pool information | Manage ↗

Azure Pipelines

Agent Specification *

ubuntu-latest

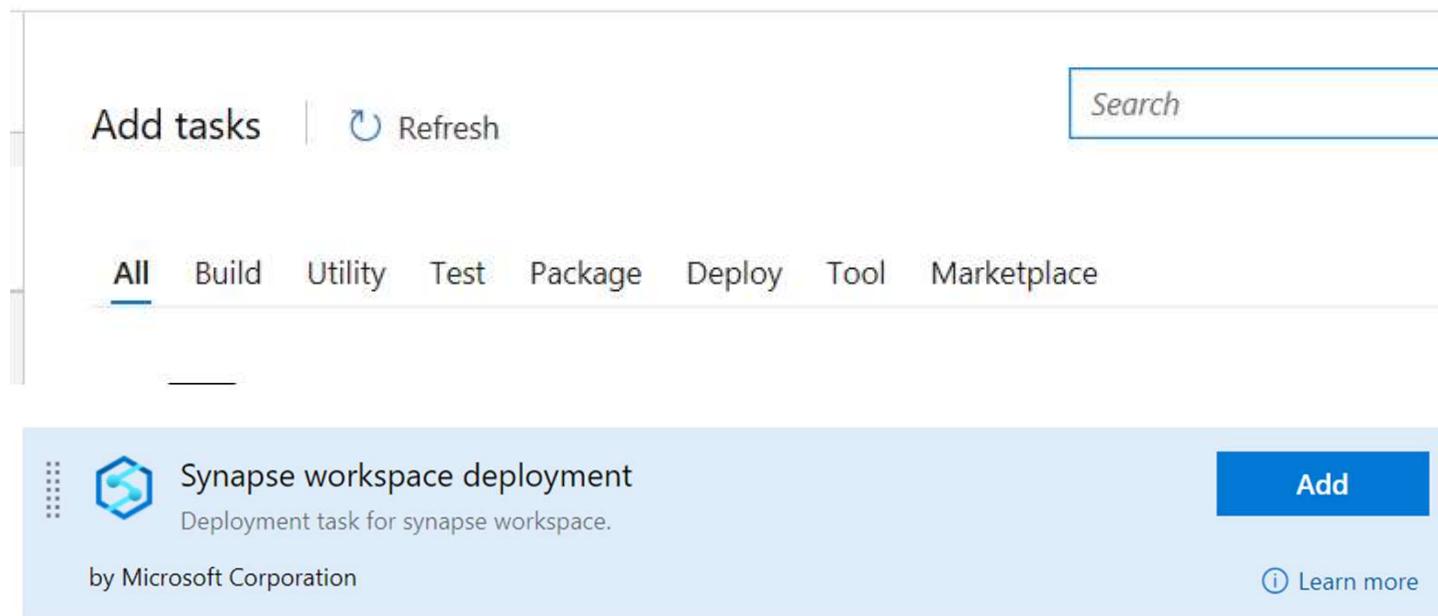
- macOS-10.15
- macOS-11
- macos-latest
- ubuntu-18.04
- ubuntu-20.04
- ubuntu-22.04
- ubuntu-latest
- vs2017-win2016
- windows latest
- windows-2019
- windows-2022
- windows-latest

Azure DevOps

Create task

Define an Agent

Add the task



The screenshot shows the Azure DevOps interface for creating a task. At the top, there is a search bar labeled "Search". Below it, a navigation bar has "All" selected, along with other categories: Build, Utility, Test, Package, Deploy, Tool, and Marketplace. The main area displays a card for the "Synapse workspace deployment" task. The card includes the task icon (a hexagon with a blue and green swoosh), the name "Synapse workspace deployment", a description "Deployment task for synapse workspace.", the developer information "by Microsoft Corporation", and two buttons: "Add" and "Learn more".



Azure DevOps

Create task

Define an Agent

Add the task

Configure the task

Select a file or folder

- Linked artifacts
- _DEMO_CLEAN (Azure Repos Git)
 - demoekeuwvdv1msynoxqn02
 - ededeuwvdv1msynoxqn01**
 - TemplateForWorkspace.json
 - TemplateParametersForWorkspace.json

Synapse workspace deployment (Preview) [View YAML](#) [Remove](#)

Task version 2.* (preview)

Display name *
Synapse deployment task for workspace: ededeuwprodsynoxgn01

Template * [...](#)
\$(System.DefaultWorkingDirectory)/_DEMO_CLEAN/ededeuwvdv1msynoxgn01/TemplateForWorkspace.json

Template parameters * [...](#)
\$(System.DefaultWorkingDirectory)/_DEMO_CLEAN/ededeuwvdv1msynoxgn01/TemplateParametersForWorkspace.json

Synapse workspace connection type * [Manage](#) [...](#)
sp-edk-oxgn-deployment

Synapse workspace resource group * [...](#)
EDED-EUW-PRODUCTION-OXYGEN-RG

Synapse workspace name * [...](#)
ededeuwprodsynoxgn01

Delete Artifacts Not In Template [...](#)

Deploy managed private endpoints in template [...](#)

Azure DevOps

Create task

Define an Agent

Add the task

Configure the task

Override the Template Parameters



OverrideParameters

Name	Value
LS_AKV_KEYVAULT_properties...	https://ededeuw\$(dtap)vault0xgn01.v...
LS_ABLB_ENV01_properties...	ABLB-ENV01
LS_ASQLENV01_WWI_pro...	ASQL-ENV01-WWI

+ Add



Azure DevOps

Release

Connecting Library

Release name format

Pipeline Tasks Variables Retention Options History

Description ⓘ

Release name format ⓘ

SynapseRelease-\$(rev:r)

Variable group scope

Release

Stages

Prod

Prod

Link

Link variable group ⓘ

Search

Acceptance Environment (3)

AzureDataBricks (2)

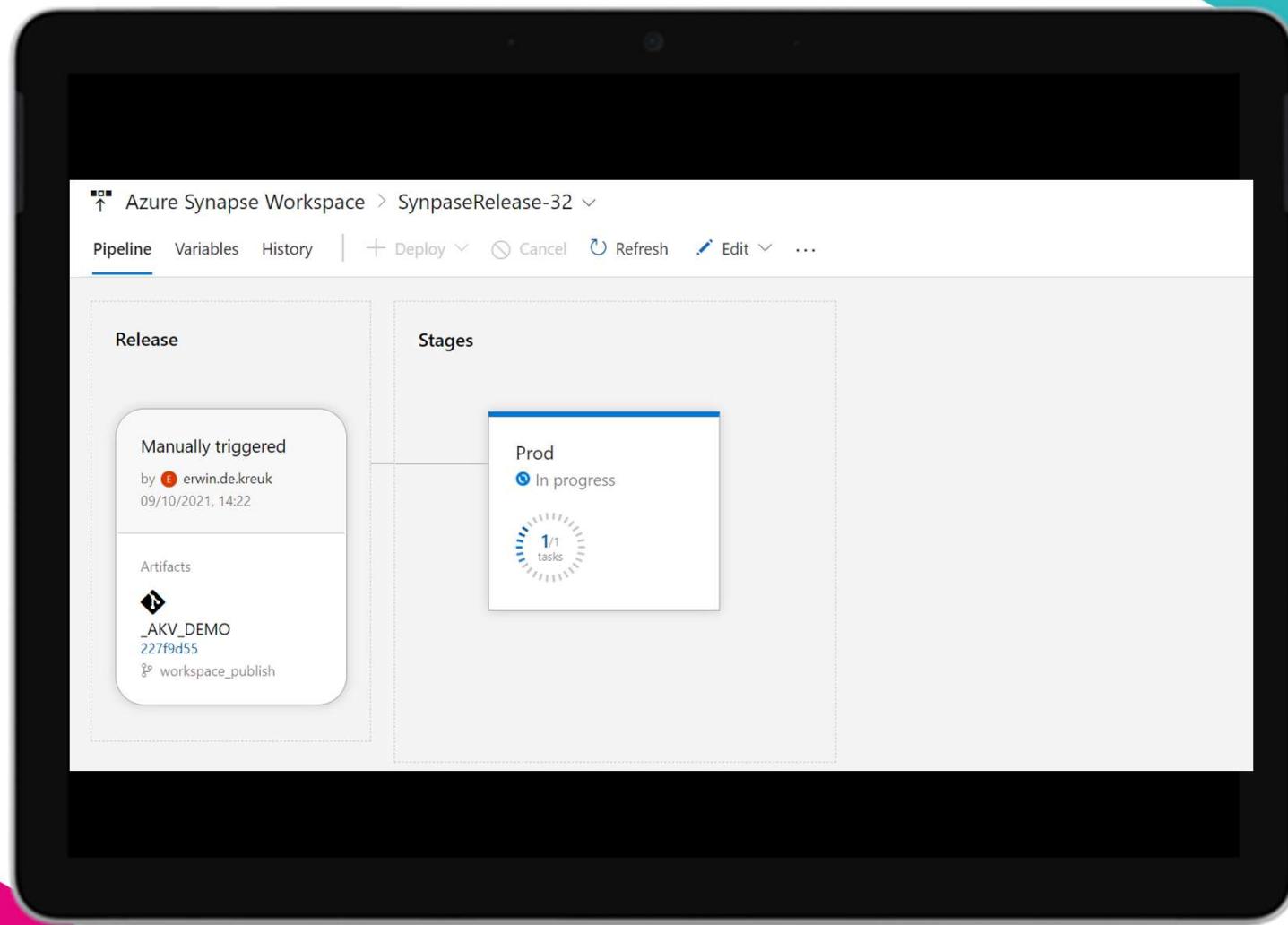
DVLM Environment (4)

Environment (4)

Global (4)

Production Environment (3)

Test Environment (4)



Synapse deployment task for workspace: demoekueuprodsynoxgn02

```

1 2021-10-14T11:56:38.9148749Z #[section]Starting: Synapse deployment task for workspace: demoekueuprodsynoxgn02
2 2021-10-14T11:56:38.9716299Z =====
3 2021-10-14T11:56:38.9717298Z Task : Synapse workspace deployment
4 2021-10-14T11:56:38.9717919Z Description : Deployment task for synapse workspace.
5 2021-10-14T11:56:38.9718247Z Version : 1.8.0
6 2021-10-14T11:56:38.9718819Z Author : Microsoft Corporation
7 2021-10-14T11:56:38.9720345Z Help : Displays the name of your extension.
8 2021-10-14T11:56:38.9720862Z =====
9 2021-10-14T11:56:40.4624824Z downloadPath D:\var\l1a
10 2021-10-14T11:56:40.4630693Z targetWorkspaceName demoekueuprodsynoxgn02
11 2021-10-14T11:56:40.4634691Z DeletedArtifactsNotInTemplate=false
12 2021-10-14T11:56:40.4638247Z environment prod
13 2021-10-14T11:56:40.4869108Z Workspace info url: https://management.azure.com/subscriptions/432ab660-2b24-421c-ae88-47a63a1533c/resourcegroups/DEMO-EU-PRODUCTION-OXYGEN-RG/providers/Microsoft.Synaps
14 2021-10-14T11:56:41.2960250Z Workspace info response: {"type": "Microsoft.Synapse/workspaces", "properties": {"encryption": {"doubleEncryptionEnabled": false}, "defaultDataLakeStorage": {"accountUrl": "https://dl
15 2021-10-14T11:56:41.2970599Z Workspace location: westeurope
16 2021-10-14T11:56:41.2971895Z Begin replacement of parameters in the template
17 2021-10-14T11:56:41.2972852Z Complete replacement of parameters in the template
18 2021-10-14T11:56:41.2979751Z Begin replacement of variables in the template
19 2021-10-14T11:56:41.2980540Z Complete replacement of variables in the template
20 2021-10-14T11:56:41.3036892Z Begin getting Artifacts From Template
21 2021-10-14T11:56:41.3024327Z Found Artifact of type Microsoft.Synapse/workspaces/pipelines
22 2021-10-14T11:56:41.3027696Z Found Artifact of type Microsoft.Synapse/workspaces/datasets
23 2021-10-14T11:56:41.3029314Z Found Artifact of type Microsoft.Synapse/workspaces/datasets
24 2021-10-14T11:56:41.3031857Z Found Artifact of type Microsoft.Synapse/workspaces/linkedServices
25 2021-10-14T11:56:41.3033941Z Found Artifact of type Microsoft.Synapse/workspaces/linkedServices
26 2021-10-14T11:56:41.3035462Z Found Artifact of type Microsoft.Synapse/workspaces/linkedServices
27 2021-10-14T11:56:41.3036792Z Will be skipped as its a default resource.

```

FOR Artifact: DS_SQL_ENVI_WWI: ArtifactDeploymentTask status: 202; status message: Accepted

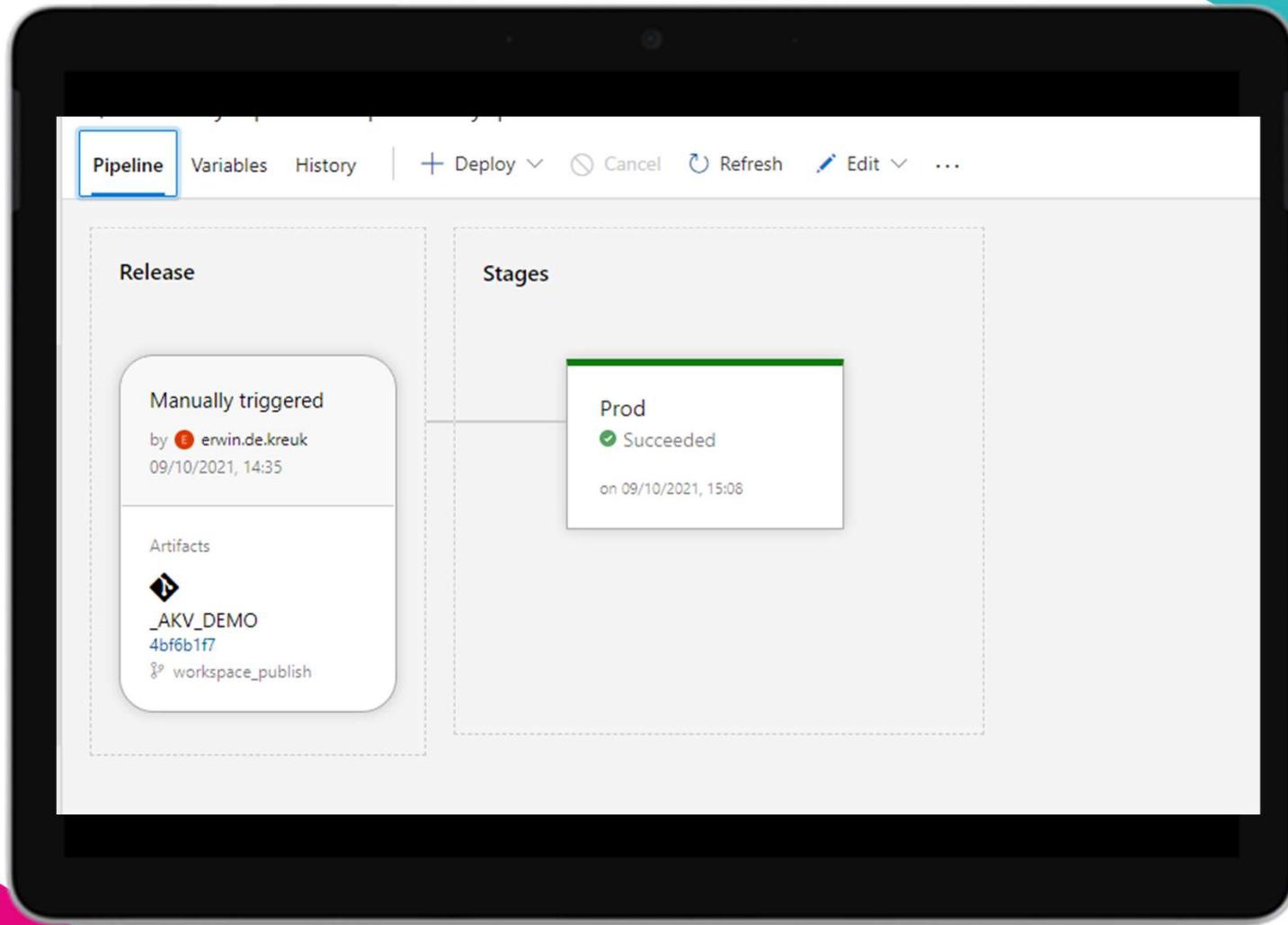
Skipping deployment of ededeuwpodsynoxgn01-WorkspaceDefaultSqlServer as its a default workspace resource.

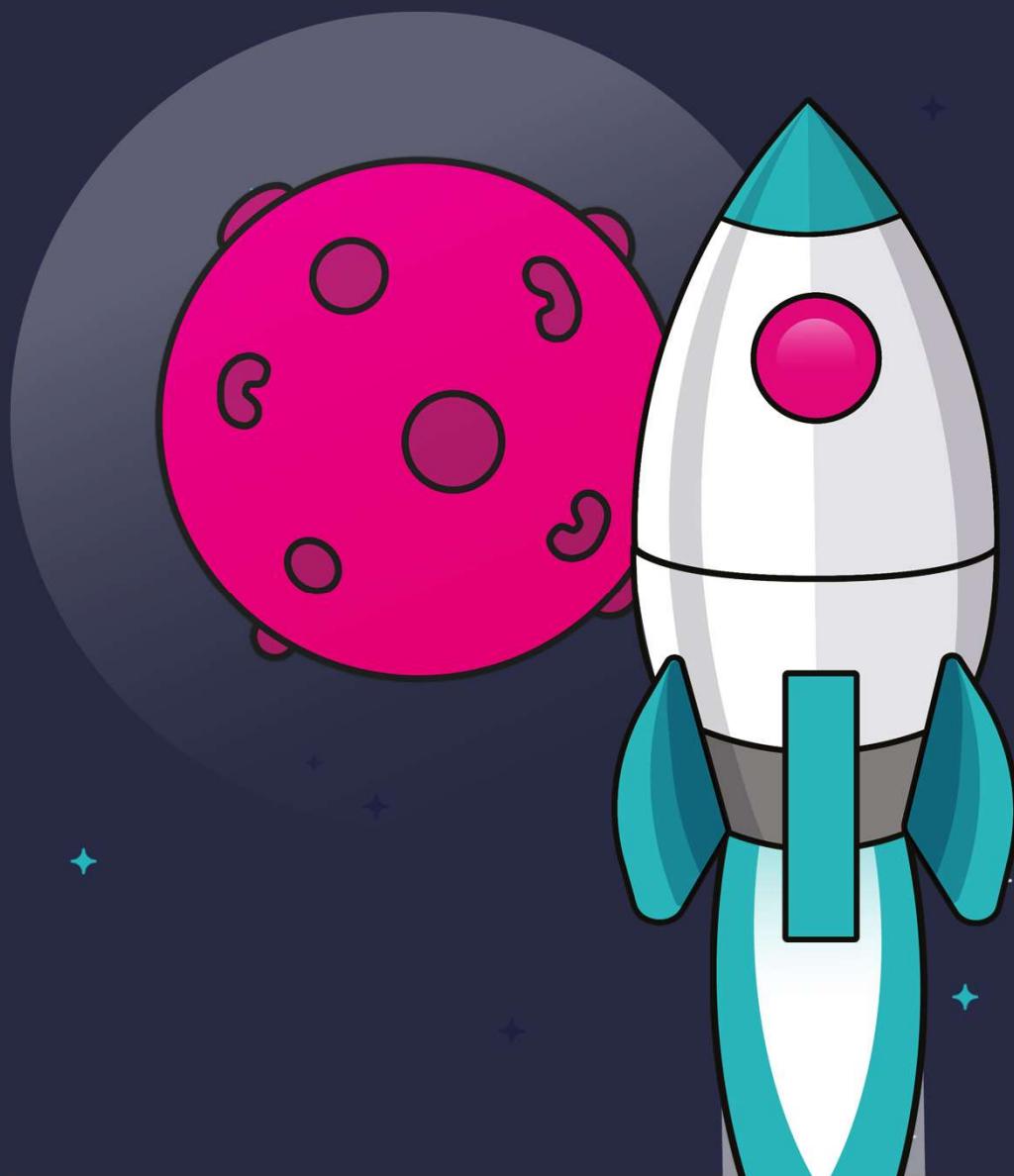
Skipping deployment of ededeuwpodsynoxgn01-WorkspaceDefaultStorage as its a default workspace resource.

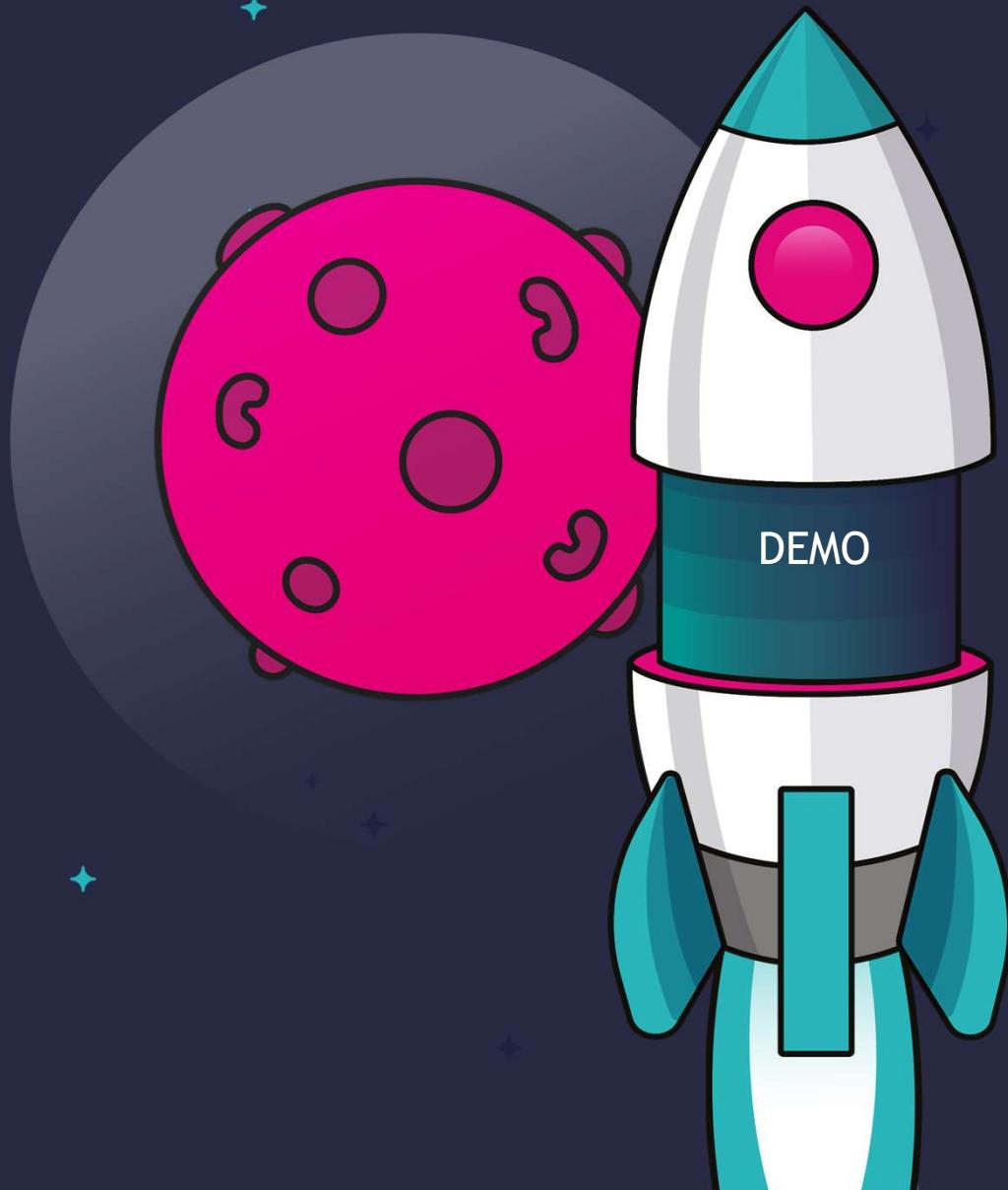
```

39 2021-10-14T11:56:41.3048892Z Start deploying artifacts from the template.
40 2021-10-14T11:56:41.3061494Z Deploy AutoResolveIntegrationRuntime of type integrationRuntime
41 2021-10-14T11:56:42.0300954Z For Artifact: AutoResolveIntegrationRuntime: ArtifactDeploymentTask status: 202; status message: Accepted
42 2021-10-14T11:56:42.0485802Z Skipping deployment of WorkspaceSystemIdentity as its a default workspace resource.
43 2021-10-14T11:56:42.0486285Z Deploy LS_AKV_KEYVAULT of type linkedService
44 2021-10-14T11:56:42.2471123Z For Artifact: LS_AKV_KEYVAULT: ArtifactDeploymentTask status: 202; status message: Accepted
45 2021-10-14T11:56:42.3497103Z For artifact: AutoResolveIntegrationRuntime: Checkstatus: 202; status message: Accepted
46 2021-10-14T11:57:13.2552933Z For artifact: AutoResolveIntegrationRuntime: Checkstatus: 200; status message: OK
47 2021-10-14T11:57:13.2556015Z Artifact: AutoResolveIntegrationRuntime deployed successfully.
48 2021-10-14T11:57:13.5592489Z For artifact: LS_AKV_KEYVAULT: Checkstatus: 200; status message: OK
49 2021-10-14T11:57:13.5596463Z Artifact LS_AKV_KEYVAULT deployed successfully.
50 2021-10-14T11:57:13.5598270Z Deploy LS_AB8_ENV01 of type linkedService
51 2021-10-14T11:57:13.5600231Z For Artifact: LS_AB8_ENV01: ArtifactDeploymentTask status: 202; status message: Accepted
52 2021-10-14T11:57:13.5726077Z Deploying IC_ASV_EM01 was not found in linkedService

```

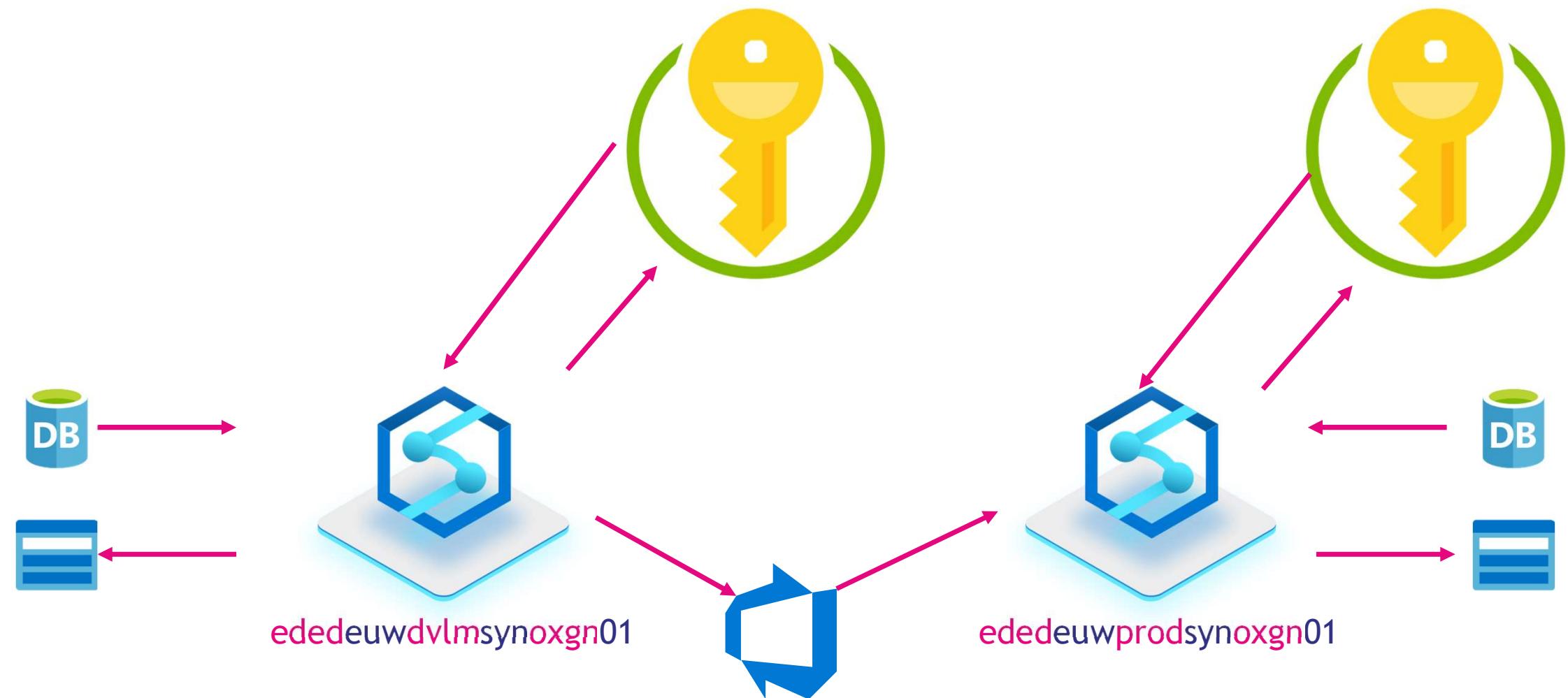






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Azure Synapse Analytics

Custom parameters

Not all the properties have parameters by default.

template-parameters-definition.json

Adding accountkey for DataLake

with secrets from Azure Key Vault "accountkey": "|",

```
"Microsoft.Synapse/workspaces/linkedServices": {
    "*": {
        "properties": {
            "typeProperties": {
                "accountName": "=",
                "username": "=",
                "userName": "=",
                "accountKey": "|",
                "accessKeyId": "=",
                "servicePrincipalId": "=",
                "userId": "=",
                "clientId": "=",
                "clusterUserName": "=",
                "clusterSshUserName": "=",
                "hostSubscriptionId": "=",
                "clusterResourceGroup": "=",
                "subscriptionId": "=",
                "resourceGroupName": "=",
                "tenant": "=",
                "dataLakeStoreUri": "-",
                "baseUrl": "=",
                "database": "=",
                "serviceEndpoint": "=",
                "batchUri": "=",
                "databaseName": "=",
                "systemNumber": "=",
                "server": "=",
                "url": "-",
                "aadResourceId": "=",
                "connectionString": "|:-connectionS
            }
        }
    }
}
```

- = means keep the current value as the default value for the parameter.
- means don't keep the default value for the parameter.
- | is a special case for secrets from Azure Key Vault for connection strings or keys.

More info can be found here:

<https://docs.microsoft.com/en-us/azure/synapse-analytics/cicd/continuous-integration-delivery#create-custom-parameters-in-the-workspace-template>



Remarks

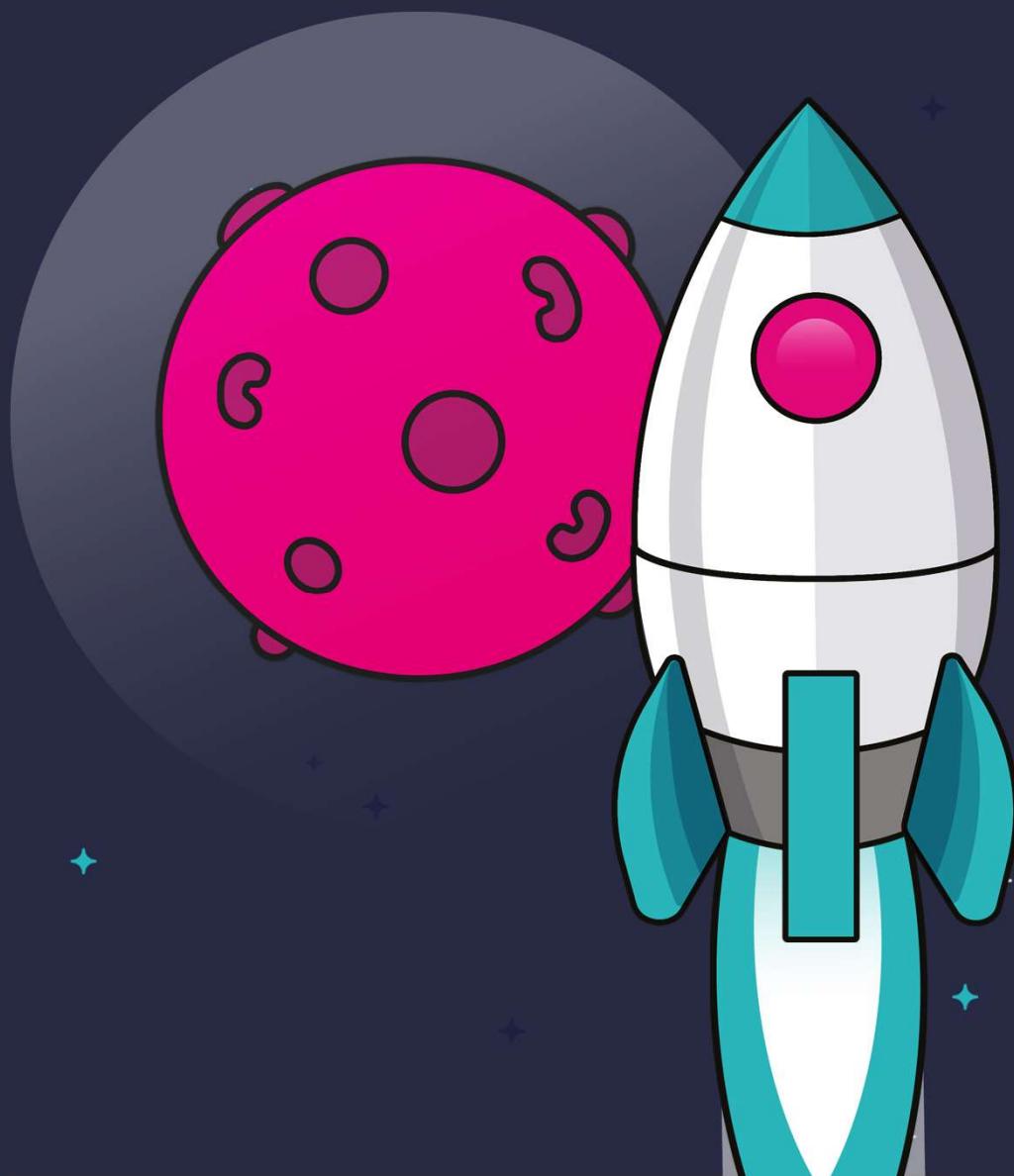
You cannot publish while SSIS Integration Runtime is running

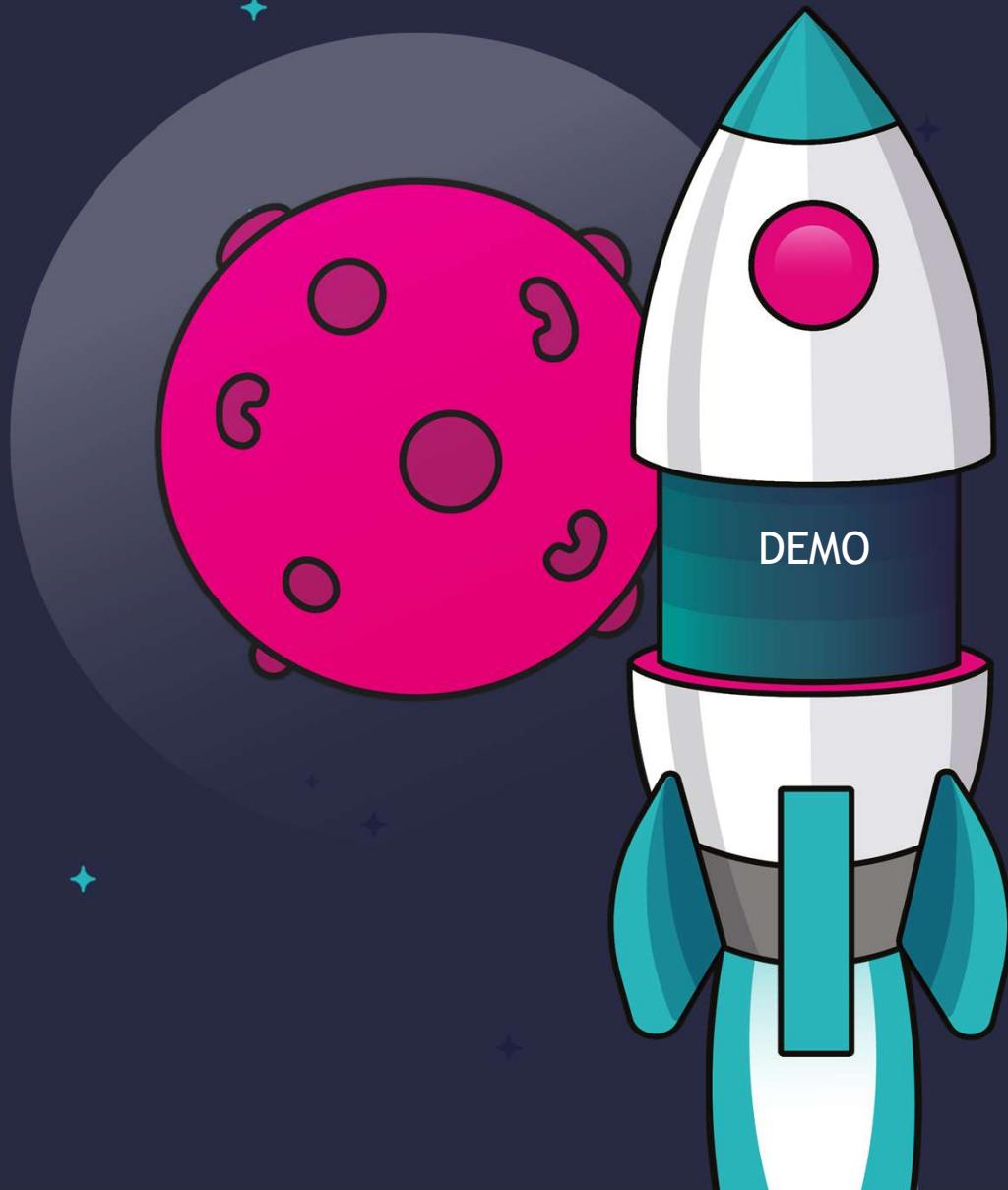
Triggers needs to be disabled and enabled afterwards (**Synapse Extension**)

Every time you change something to your connection you need to update the Template parameter

Deletes are handled manually or through (**Synapse Extension**)

The screenshot shows the 'Synapse workspace deployment (Preview)' settings. At the top, there is a 'Synapse workspace name' input field containing 'ededeuwprodsynoxgn01'. Below it are two checkboxes: 'Delete Artifacts Not In Template' (which is selected and highlighted with a red box) and 'Deploy managed private endpoints in template'. The 'Task version' dropdown is set to '2.* (preview)', which is also highlighted with a blue box. The 'Display name' dropdown is set to '1.*'. At the bottom right, there is a note: 'Workspace: ededeuwprodsynoxgn01'.





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Attollo



B3 Consulting Group



Quest Software



SQL Service



dbWatch



Transmokopter SQL



Catman Solution



DB24



Redgate Software



Questions?



Erwin de Kreuk

Principal Consultant | Lead Data
and AI | Data Platform MVP | Publ...



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