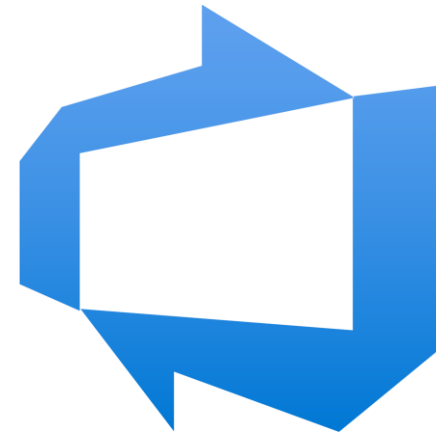


Enchanted by KevOps for Azure Synapse Analytics



Azure Synapse Analytics



Azure DevOps

Kevin Chant

Data Saturday Gothenburg

Data Saturday Gothenburg 2022

Sponsors



The after-party sponsor



Quest®



Pagesplit Solutions



Agenda

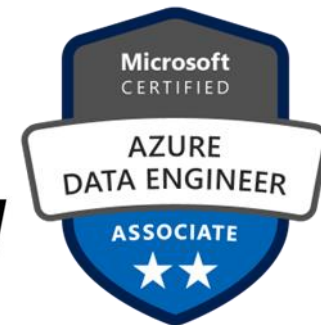
- Obligatory bio
- Introduction to Azure DevOps
- Synapse Studio
- Migrate ADF pipelines to Synapse
- CI/CD for SQL Pools
- Using AzDo to test Data Flows

Kevin Chant

- Lead BI & Analytics Architect in the Netherlands
- Worked in IT since Windows 95
- Experience in various sectors
- Various certifications, dual-category MVP



- Twitter: @kevchant
- LI: <https://www.linkedin.com/in/kevin-chant/>
- Blog: <https://www.KevinRChant.com>
- GitHub: <https://github.com/kevchant>



Azure DevOps overview

Collection
of services

Azure
Boards for
work items

Azure
Repos to
store code

Azure
Pipelines to
deploy
things

Azure Test
Plans to
manage
tests

Azure
Artifacts to
store
artifacts

Opening Synapse Studio

Home >



Search (Ctrl+/,)



[+ New dedicated SQL pool](#) [+ New Apache Spark pool](#) [Refresh](#) [Reset SQL admin password](#) [Delete](#)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

SQL Active Directory admin

Properties

Locks

Analytics pools

SQL pools

Apache Spark pools

Security

Encryption

Resource group (change) : kcsyn

Status : Succeeded

Location : West Europe

Subscription (change) : Visual Studio Enterprise Subscription

Subscription ID :

Managed virtual network : Yes

Managed Identity object ... :

Workspace web URL : [https://web.azuresynapse.net?workspace=%2fsubscriptions%](https://web.azuresynapse.net?workspace=%2fsubscriptions%2f{kcsyn})

Tags (change) : [Click here to add tags](#)

Firewalls : [Show firewall settings](#)

Primary ADLS Gen2 acco... : https://kcsyn.dfs.core.windows.net

Primary ADLS Gen2 file s... : kcsyn

SQL admin username : sqladminuser

SQL Active Directory ad... :

Dedicated SQL endpoint : kcsyn.sql.azuresynapse.net

Serverless SQL endpoint : kcsyn.on-demand.sql.azuresynapse.net

Development endpoint : https://kcsyn.dev.azuresynapse.net

Getting started



Open Synapse Studio

Start building your fully-integrated analytics solution and unlock new insights.

[Open](#)

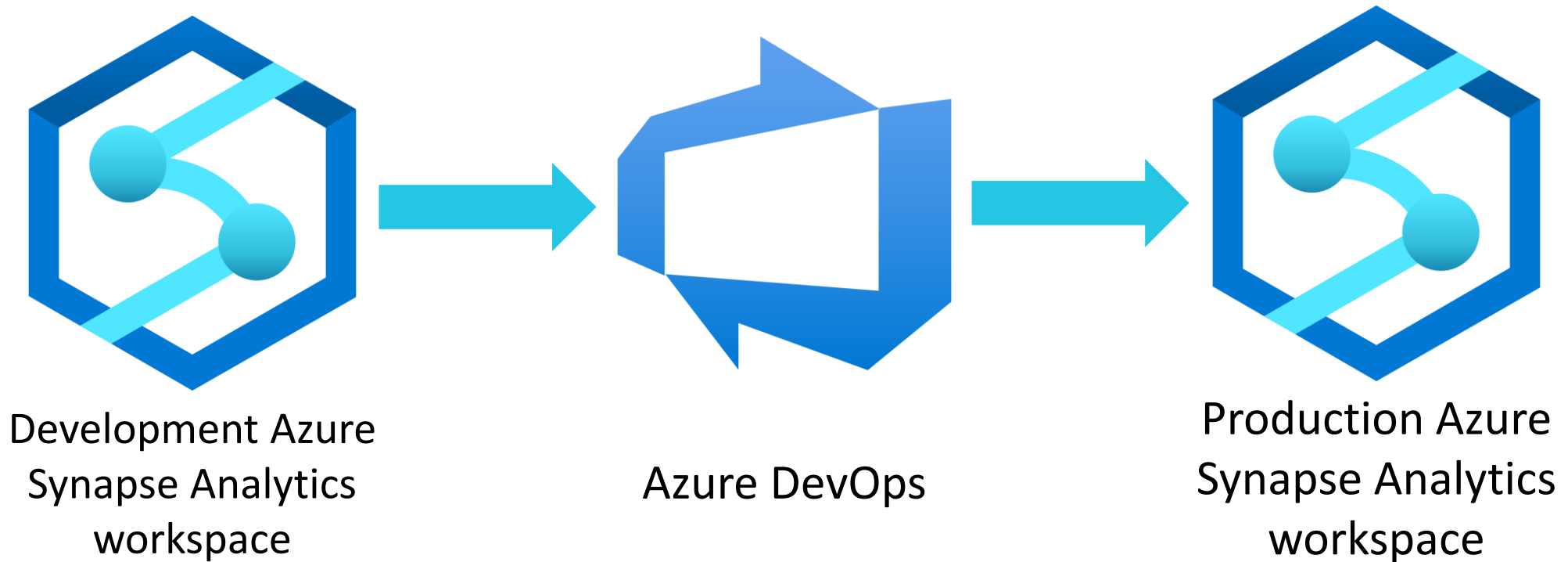


Read documentation

Learn how to be productive quickly. Explore concepts, tutorials, and samples.

[Learn more](#)

Migrating Synapse workspace



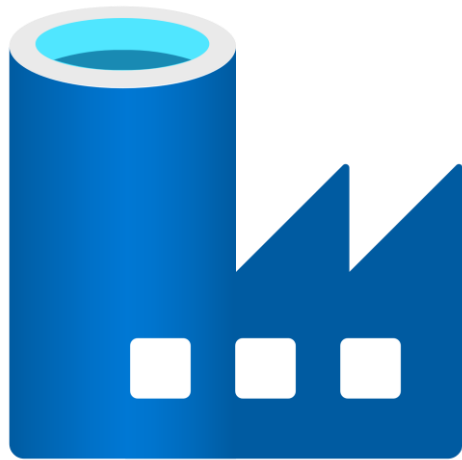
Synapse Studio objects

Some stored in
Azure Repos

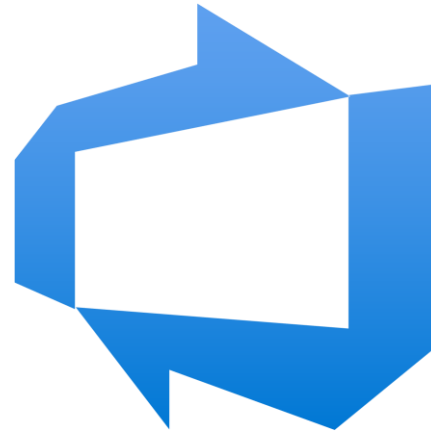
Interesting
branches

Can be migrated to
another workspace

Migrate ADF Pipeline scenario



Azure Data
Factory



Azure DevOps



Azure Synapse
Analytics
workspace

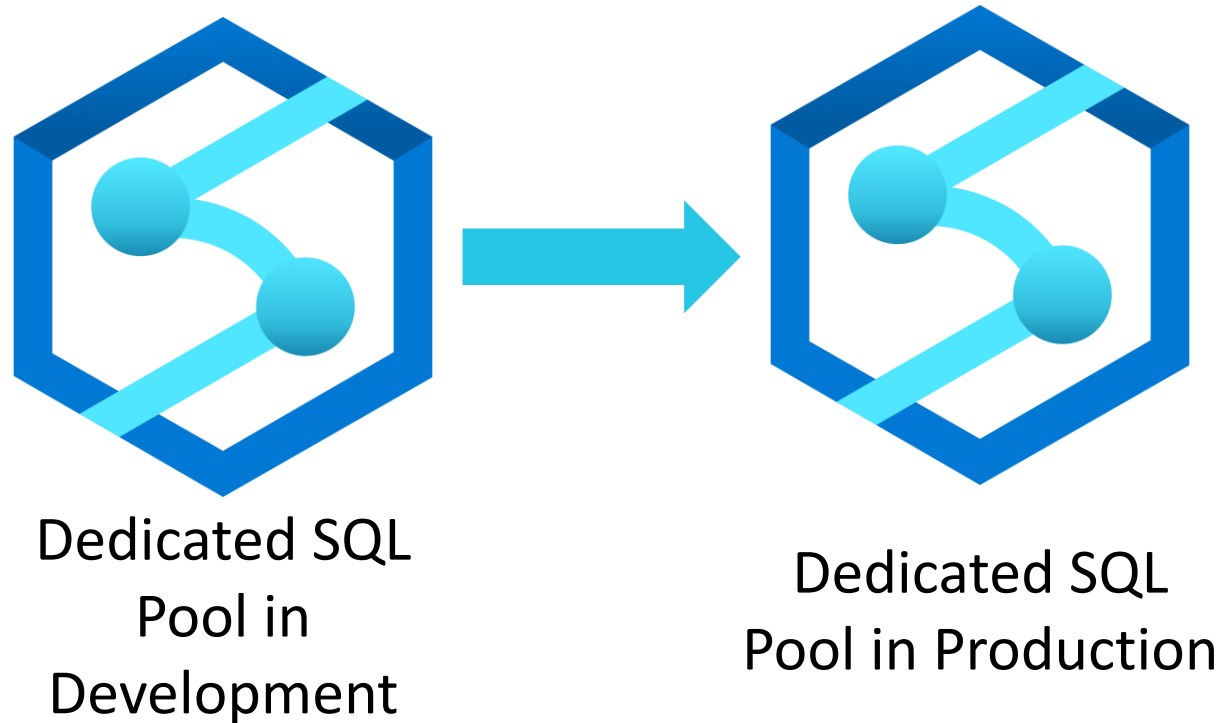
Migrate ADF pipelines

Various options

Copying individual
objects works

Can be automated

Dedicated SQL Pools pipeline



CI/CD for dedicated SQL Pools

Same dacpac
method as SQL
Server

Change target
platform

Use dedicated SQL
endpoint as server
name

CI/CD for serverless SQL Pools

Migration-based
method using
DbUp works

Use dbops
PowerShell module

Wrap p/w in single
quotes (“

Testing Data flows

Say goodbye to
spreadsheets

Say hello to Azure
Test Plans

Three types of test
suites

Questions



Thank you



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- Blog: <https://www.KevinRChant.com>
- GitHub: <https://github.com/kevchant>