



# KevOps for Azure Synapse Analytics

Kevin Chant

# Agenda

- . Obligatory bio
- . Brief introduction to Azure DevOps
- . Synapse Studio objects stored in Azure Repos
- . Migrate ADF pipelines to Azure Synapse
- . CI/CD for SQL Pools
- . Using Azure DevOps 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 & MVP

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

# Azure DevOps

Collection of services

Azure Boards to manage work items

Azure Repos to store repositories

Azure Pipelines to manage deployments

Azure Test Plans to manage manual tests

Azure Artifacts to store artifacts



# Synapse overview layout

The screenshot displays the Azure Synapse overview page. On the left is a navigation pane with sections: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (SQL Active Directory admin, Properties, Locks), and Analytics pools (SQL pools, Apache Spark pools, Data Explorer pools (preview)). The main content area is titled 'Essentials' and lists various configuration items. Three items are highlighted with colored boxes: 'Workspace web URL' with a purple box, 'Dedicated SQL endpoint' with a red box, and 'Serverless SQL endpoint' with a blue box. A 'JSON View' link is in the top right corner.

**Navigation Pane:**

- 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
  - Data Explorer pools (preview)

**Essentials Section:**

- Resource group ([move](#))  
[DataTobogganRG](#)
- Status  
Succeeded
- Location  
West Europe
- Subscription ([move](#))  
[Visual Studio Enterprise Subscription](#)
- Subscription ID
- Managed virtual network  
No
- Managed Identity object ID
- Workspace web URL  
<https://web.azuresynapse.net?workspace=%2fsubscriptions> ...
- Tags ([edit](#))  
[Click here to add tags](#)

**Networking Section:**

- Networking  
[Show firewall settings](#)
- Primary ADLS Gen2 account URL  
https:// dls.dfs.core.windows.net
- Primary ADLS Gen2 file system  
fs
- SQL admin username
- SQL Active Directory admin
- Dedicated SQL endpoint  
ws.sql.azuresynapse.net
- Serverless SQL endpoint  
ws-ondemand.sql.azuresynapse.net
- Development endpoint  
https:// ws.dev.azuresynapse.net

[JSON View](#)

# Synapse Studio objects

Stored in Azure  
Repos

Interesting  
branches

Can be migrated

# Migrate ADF pipelines

Various options

Copying  
individual  
objects works

Can be  
automated

# CI/CD for dedicated SQL Pool

Same dacpac  
method as SQL  
Server

Change target  
platform to SQL  
Datawarehouse

Use dedicated  
SQL endpoint as  
server name



# CI/CD for serverless SQL Pools

Migration based  
method using  
DbUp works

Use dbops  
PowerShell  
module

Wrap password  
in single quotes  
('')

# Testing Dataflows

Say goodbye to  
spreadsheets

Say hello to  
Azure Test Plans

Three types test  
suites

# Thank you

Any questions?



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