

# Real-world CI/CD for SQL Server using Azure DevOps deep dive



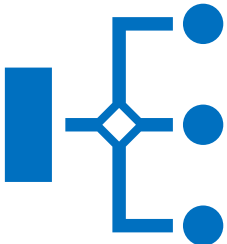
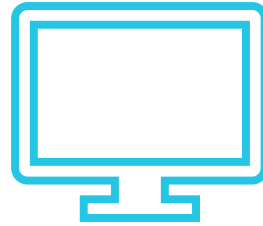
**Kevin Chant & Sander Stad**

# Thank you, partners



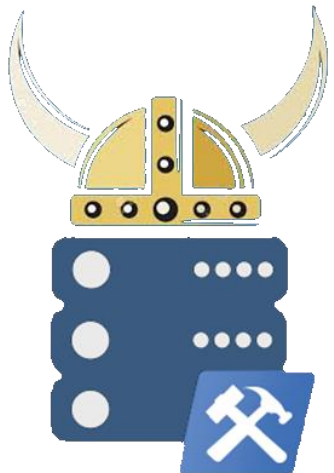
# For the next 60 minutes

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# Sander Stad



@sqlstad



sqlstad.nl



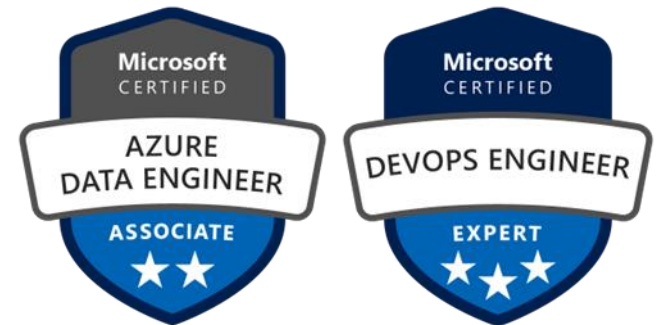
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github.com/sanderstad

# Kevin Chant

- Data Engineering Manager in the Netherlands
  - Worked in IT since Windows 95
  - Experience in various sectors
  - Various certifications, dual-category MVP
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- Twitter/bluesky: @kevchant
  - LI: <https://www.linkedin.com/in/kevin-chant/>
  - Blog: <https://www.KevinRChant.com>
  - GitHub: <https://github.com/kevchant>

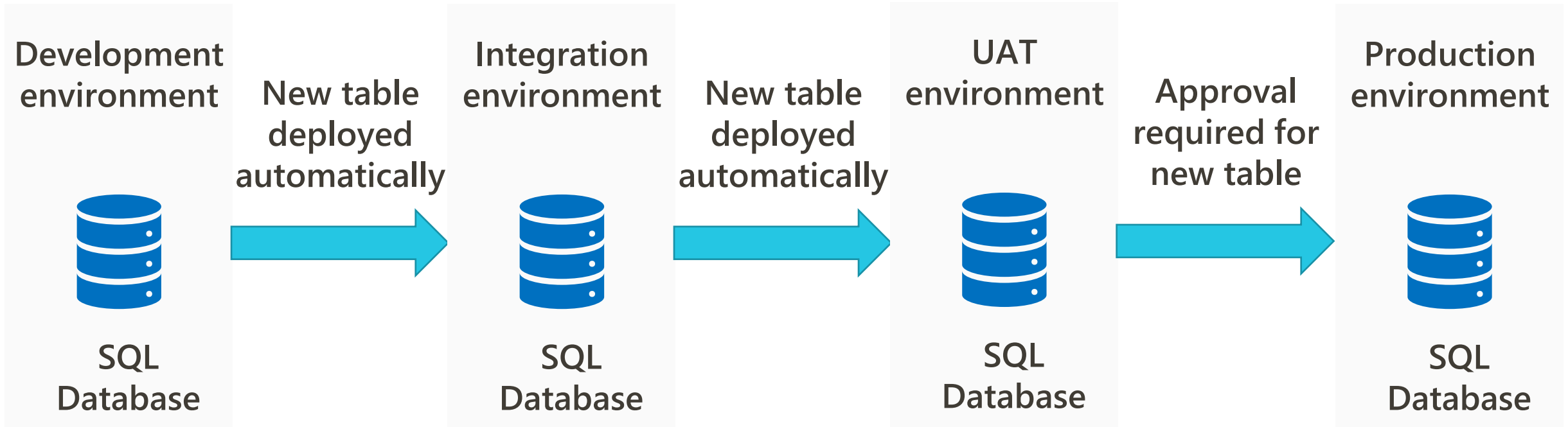


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# SQL Server instances



# SQL Server pipeline



# Azure Pipeline Agents

- Deal with all processing
- Runs on Windows, Ubuntu or MacOS
- Microsoft or self-hosted
- Microsoft-hosted image same as GitHub runner
- Windows & Linux run on Standard\_DS2\_v2 images
- macOS images always run in US





# Optimal settings

- Microsoft hosted useful for cloud
- Self-hosted for local deployments
- Always self-hosted for custom apps
- Avoid running as service on laptop
- Linux agents have Docker
- Create Agent pool at right level



# Demo



# Classic pipelines or YAML



# Classic Pipeline Pros and Cons

## Pros

- GUI-based
- Makes for good demos

## Cons

- A few security issues
- Can be tricky to navigate
- Not true Infrastructure as Code

# YAML Pipeline Pros and Cons

## Pros

- Portable
- Secure
- Easy to troubleshoot
- Can be code reviewed

## Cons

- Well, it's YAML

# Demos

- Classic pipelines
- YAML pipeline scenarios
- New type of database project
- Migration-based

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# Keep your secrets a secret



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# Approvals





# To recap

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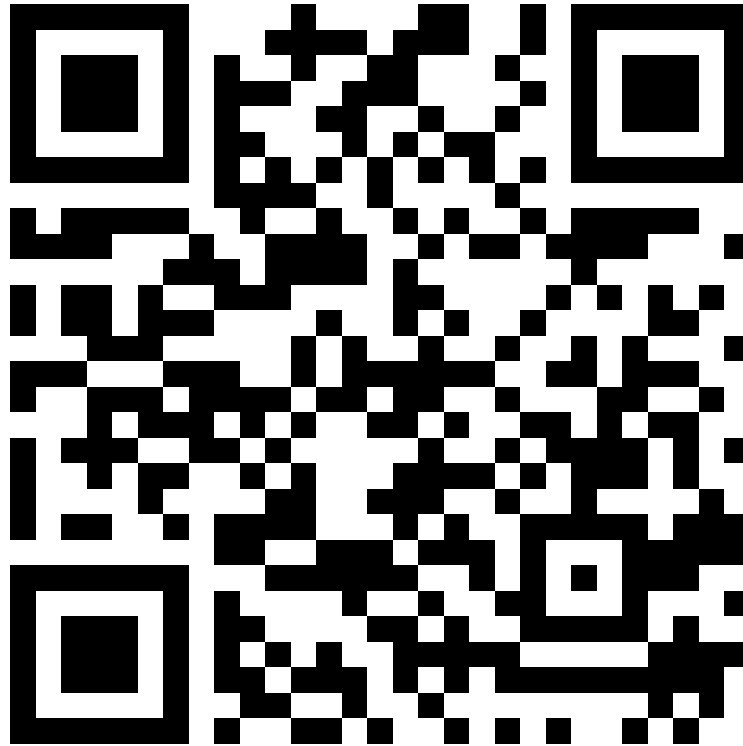


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# Questions?



# Session Feedback



[https://bit.ly/dMC2023\\_SessionFeedback](https://bit.ly/dMC2023_SessionFeedback)



# Thank You



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