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

Data Ceili

Kevin Chant & Sander Stad

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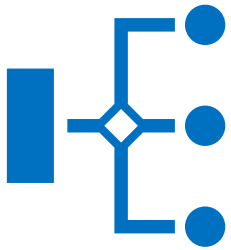

Sander Stad

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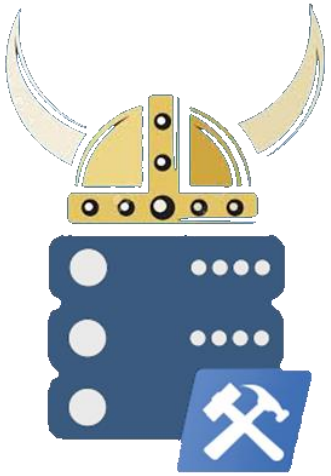


@sqlstad

sqlstad.nl

sander@sqlstad.nl

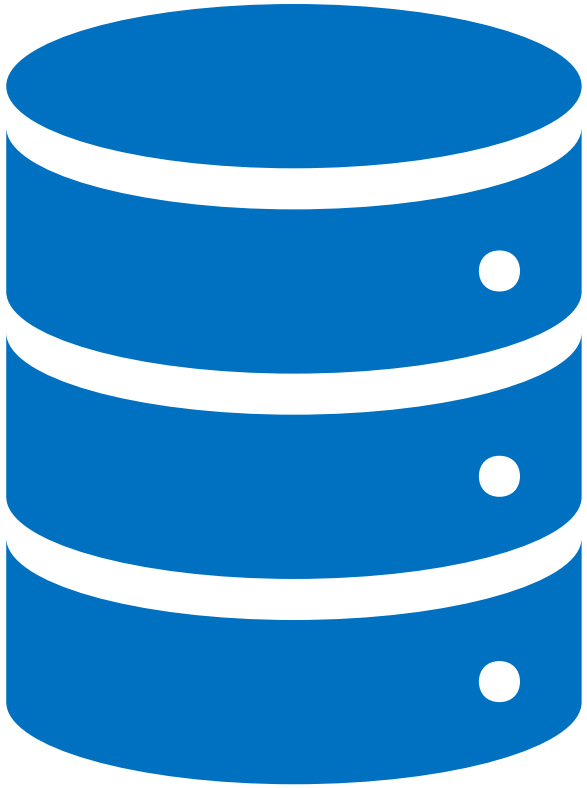
github.com/sanderstad

Kevin Chant

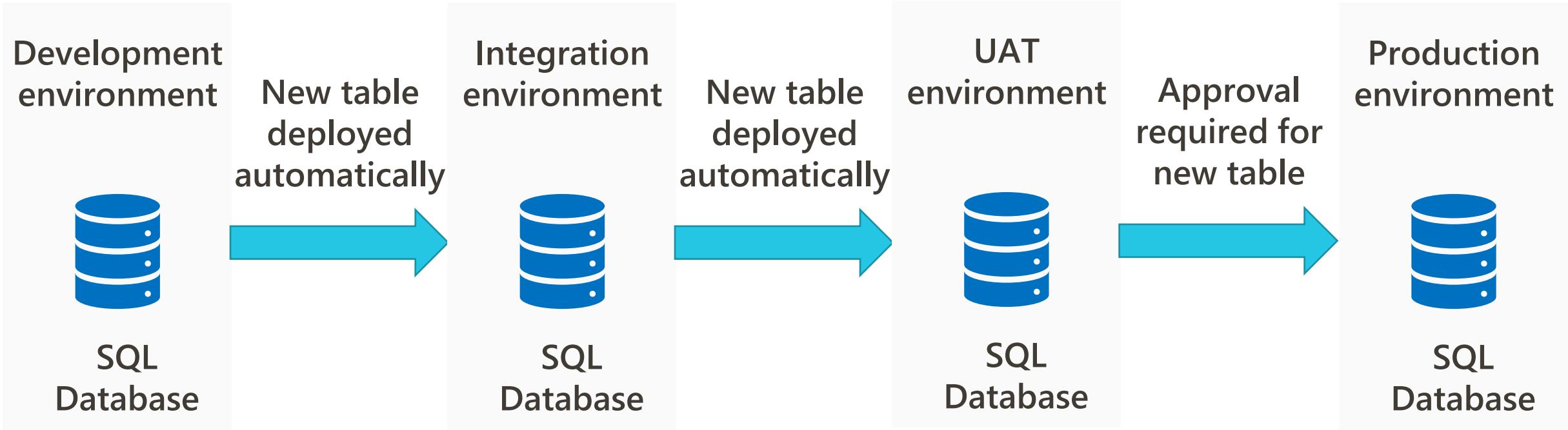
- Data Engineering Manager in the Netherlands
- Worked in IT since Windows 95
- Experience in various sectors
- Various certifications, dual-category MVP

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

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

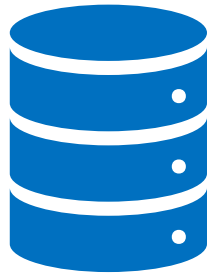
Demos

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

Keep your secrets a secret

Approvals

To recap



Questions?

ThankYou

Sander Stad	Kevin Chant
@sqlstad	@kevchant
Sqlstad.nl	KevinRChant.com
sanderstad	kevchant