SQL
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2025



Wolfi and Ben do something in Fabric.

With SQL Databases.

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Ben does something.
In Fabric.

Without Wolfi.
With SQL Databases.

Who am I?

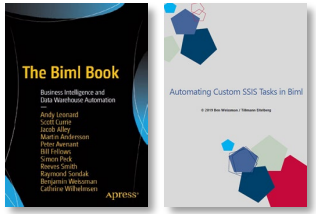
Ben Weissman (he/him)

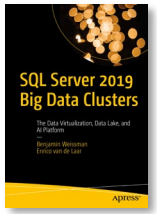
b.weissman@solisyon.de

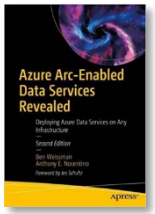
@bweissman.bsky.social

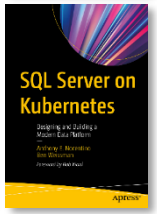
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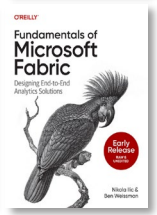
bweissman











Please Talk Data To Me





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Who am I?

Ben Weissman (he/him)



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FindingData Friends

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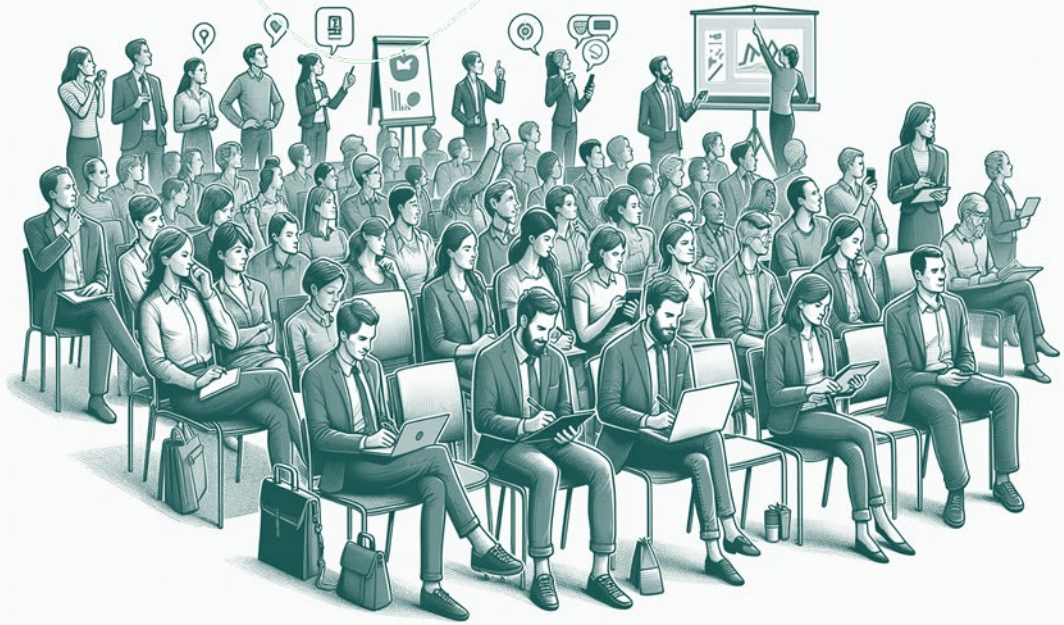
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All ways to share your thoughts, communicate, and learn are welcome!





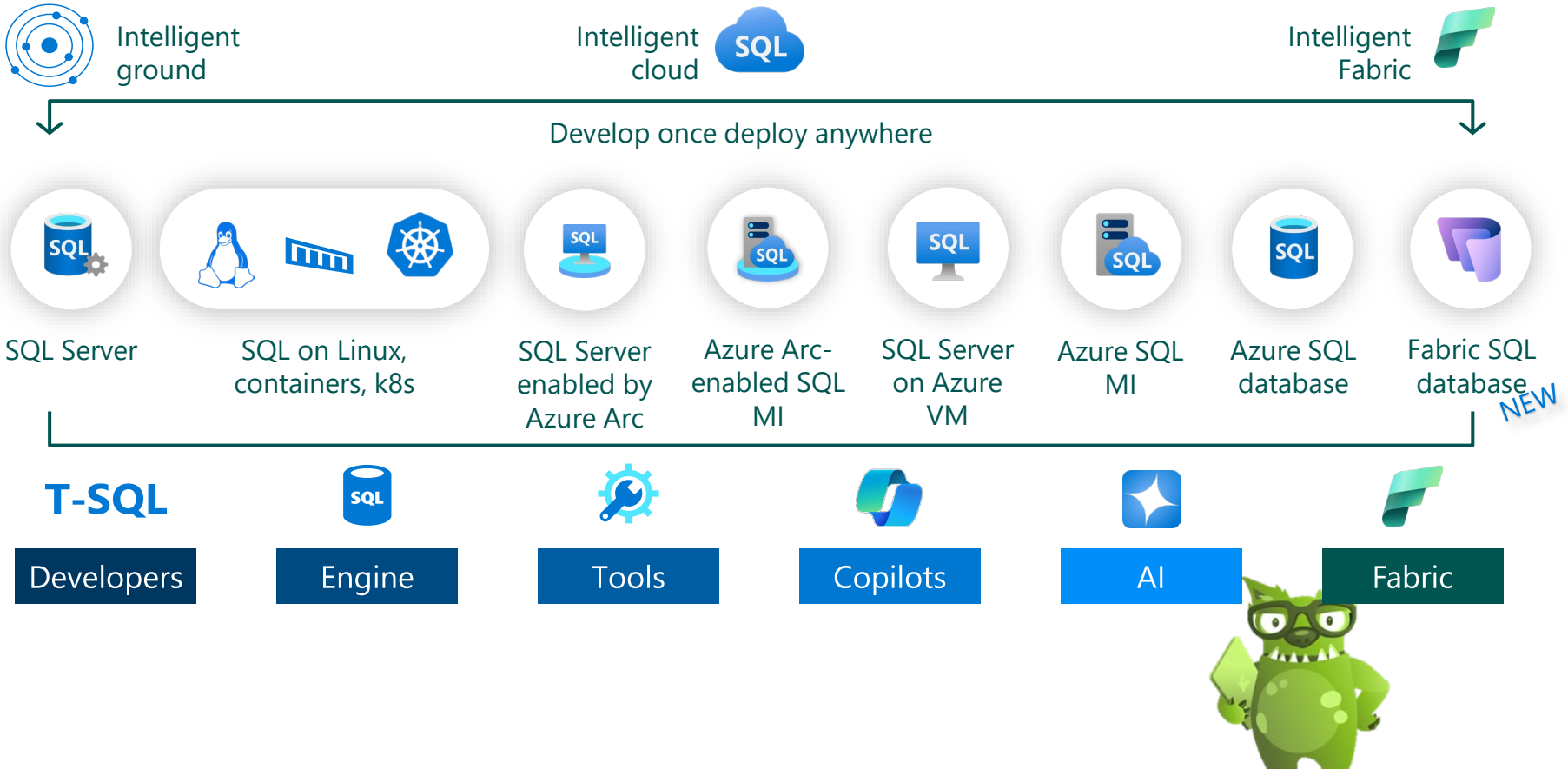
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Created by DALL-E, inspired by Lisa Hoving
and https://www.facebook.com/lilpenguinstudios/

Microsoft SQL – ground to cloud to Fabric - The next generation AI database platform



Microsoft Fabric

- Data Factory
- Real-Time Intelligence
- Databases
- Analytics
- Industry Solutions
- Power BI
- Partner solutions

Copilot in Fabric

OneLake

Microsoft Purview



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It‘s more than analytics

Why use SQL database in Microsoft Fabric

To store and serve data for the conference webpage.

To run analysis over that data.

To easily search for and find sessions of interest.

To follow modern best practices for DevOps.

To be able to monitor and troubleshoot database and query performance.

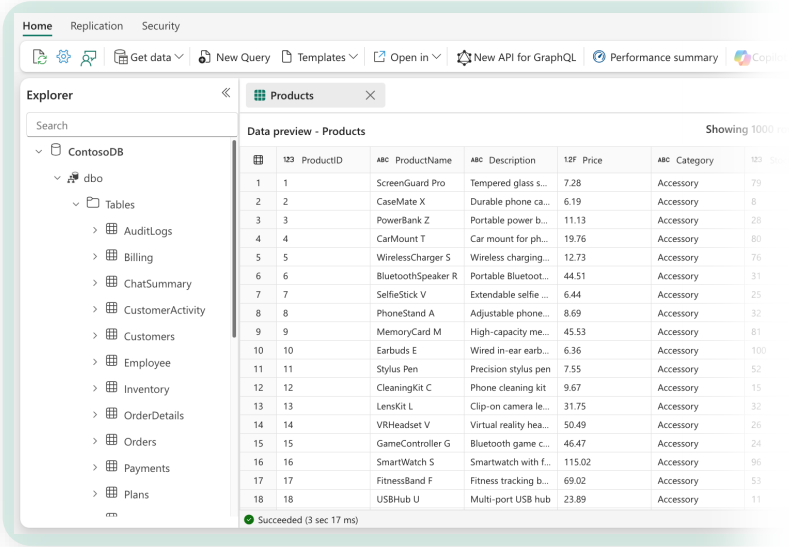


Simple

Less switches, toggles and knobs.



Focus on building your app

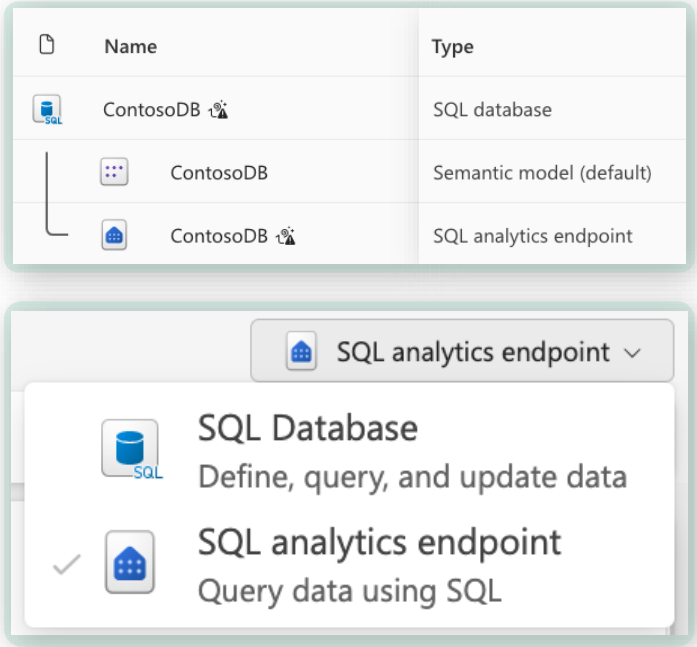


A simple, integrated developer experience

- Easy provisioning
- AI assistance
- Integrations from the editor
- T-SQL support
- GRAPH QL
- DevOps



Replication to OneLake

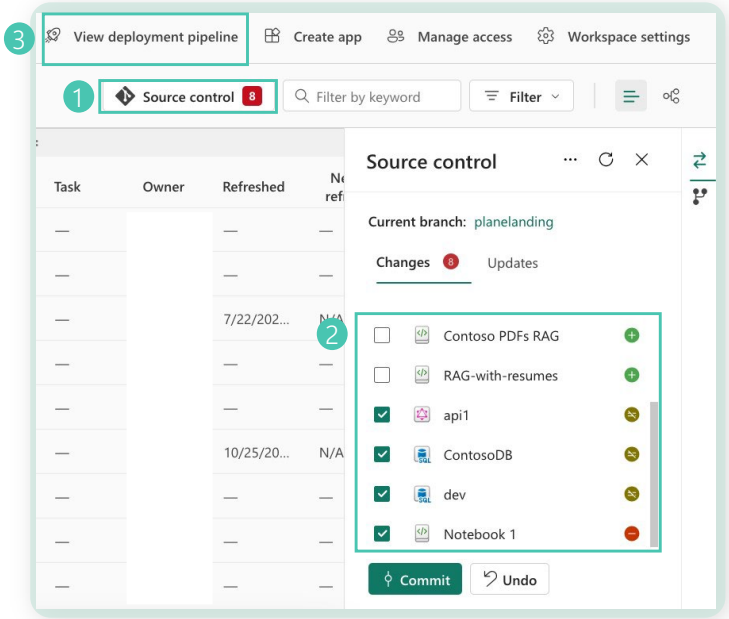


Near real-time replication to OneLake by default, seamless integrations with the rest of Fabric

- Unified operational and analytics
- Data replicated to open-source Delta
- Shortcuts to query the data without copying it



DevOps



Every database under source control

- Source control integration in the Fabric web interface (GitHub and Azure DevOps)
- Database code editing in developer tooling
- SqlPackage command line tool

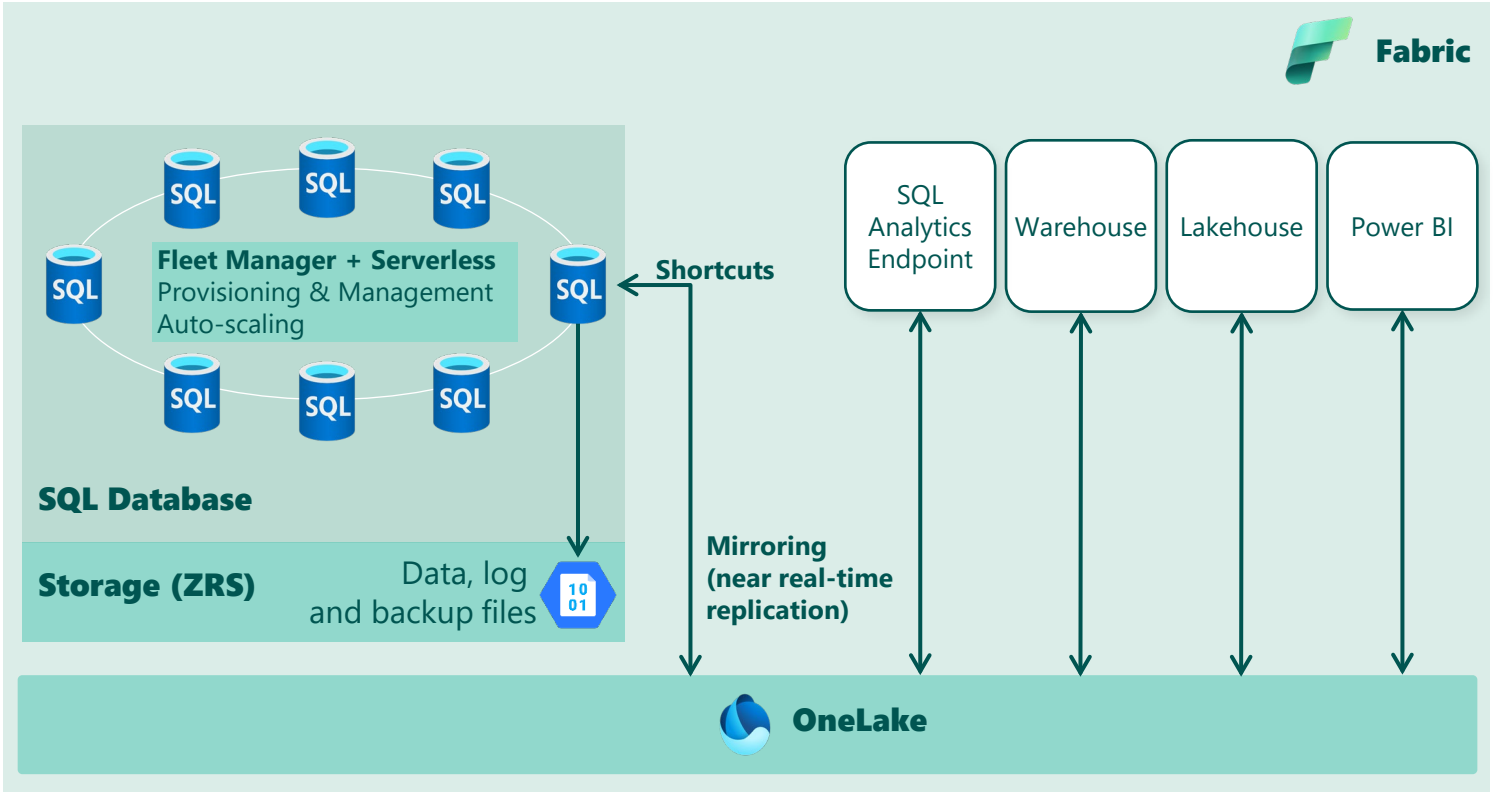


Autonomous and secure



Architecture

The power of Fabric with no compromises on your SQL operational database





Secure and governed by default

Authentication

Microsoft Entra authentication only

- Central identity management
- Password-less authentication

Data encryption

- All data encrypted at rest
- Customer Managed Key support*

Authorization

- Workspace roles and item permissions for easy management
- Proven SQL native features for granular access control

Auditing*

Enabled by default and customizable

Network security

- Private link-ready
- All data encrypted in transit – TLS 1.2

Central governance

- Microsoft Purview sensitivity labels
- Centrally-managed protection policies

* Coming in 2025 H1



Secure and governed by default

- Auto-scaling compute and storage
- Auto-HA with Zone Redundancy
- Secured and governed by default
- Auto-replicated to OneLake (no ETL)
- Auto-indexing
- Latest Intelligent Query Processing enhancements
- Auto-backups, point-in-time restore available
- Auto-patching



Optimized for AI

Building scalable AI applications

Semantic Search

Store vectors and data together for consistency and Search for most relevant data.

RAG Pattern

Retrieve the most semantically relevant data from your database and use it to ground LLMs for specific scenarios.

Structured Queries

Allow LLMs to query structured data and take advantage of rich metadata and query optimization.



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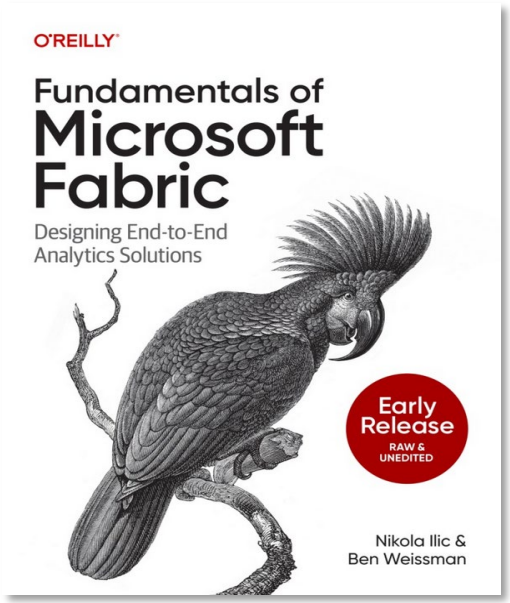


Demo:

Create a Database and play with it

Feedback!

Questions?



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bweissman

