

Azure SQL Managed Instance

Einstieg in die SQL Server Instanz als Azure-PaaS
aMS Germany 2020

kramer & crew
Der IT-Regisseur.



Björn Peters

Kramer&Crew

Senior Consultant Microsoft Data-Platform

SQL Server seit Version 6.5

Azure Meetup Hamburg Organizer

PASS Deutschland e.V. Member

Volunteer, Speaker, MVP

Father, Husband, Snowboarder, Cyclist,
Geek

www.sql-aus-hamburg.de



Agenda

- ✓ Azure SQL - Allgemeines
- ✓ Was ist diese Managed Instance
- ✓ Deployment
- ✓ Demo

Möglichkeiten



SQL virtual machines

Best for migrations and applications requiring OS-level access



SQL virtual machine

- SQL Server and OS server access
- Expansive SQL and OS version support
- Automated manageability features for SQL Server

Managed instances

Best for most lift-and-shift migrations to the cloud



Single instance

- SQL Server surface area (vast majority)
- Native virtual network support
- Fully managed service



Instance pool

- Pre-provision compute resources for migration
- Enables cost-efficient migration
- Ability to host smaller instances (2Vcore)
- Fully managed service
- In public preview

Databases

Best for modern cloud applications. Hyperscale and serverless options are available



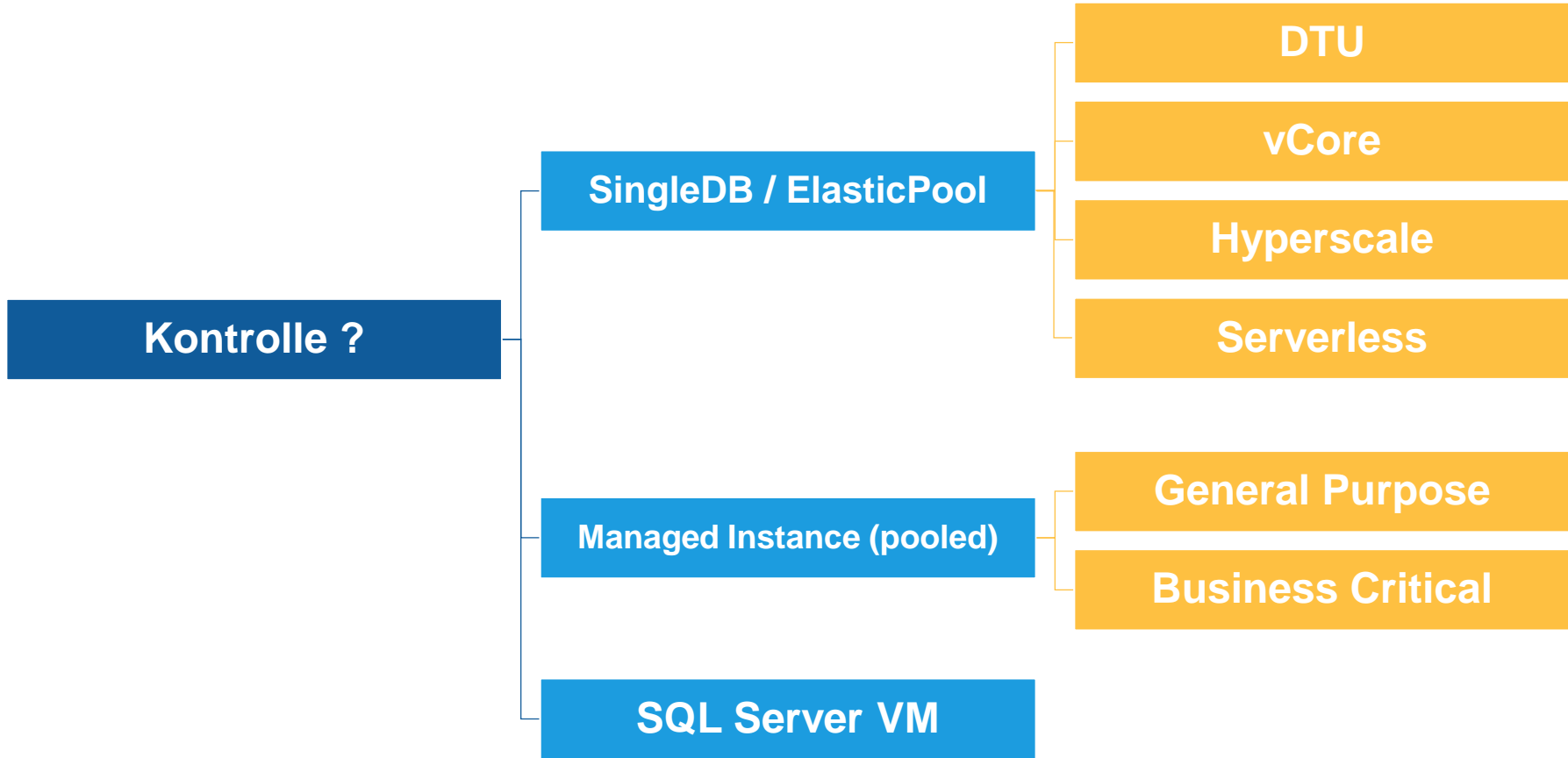
Single database

- Hyperscale storage (up to 100TB)
- Serverless compute
- Fully managed service



Elastic pool

- Resource sharing between multiple databases to price optimize
- Simplified performance management for multiple databases
- Fully managed service



Key features and capabilities

Benefits von Platform as a Service (PaaS)

KEIN
Hardware-Invest

KEIN
Management
Overhead

SCHNELLE
Bereitstellung

AUTO
Patching

Key features and capabilities

Business continuity

SLA 99.99%

Built-in HA

Automatische
Backups

Kunden-indiv.
Backup
Retention

Benutzer-
initiierte
Backups

Point-in-time
Restores

Key features and capabilities

Security and compliance

Isolierte
Umgebung

Transp. Data
Encryption
(TDE)

Azure AD Auth.

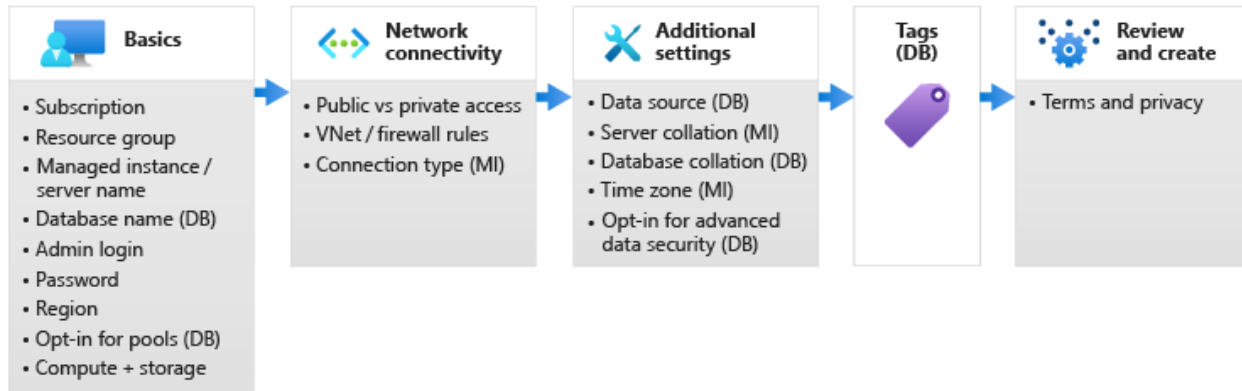
Single Sign-on
Support

SQL Auditing

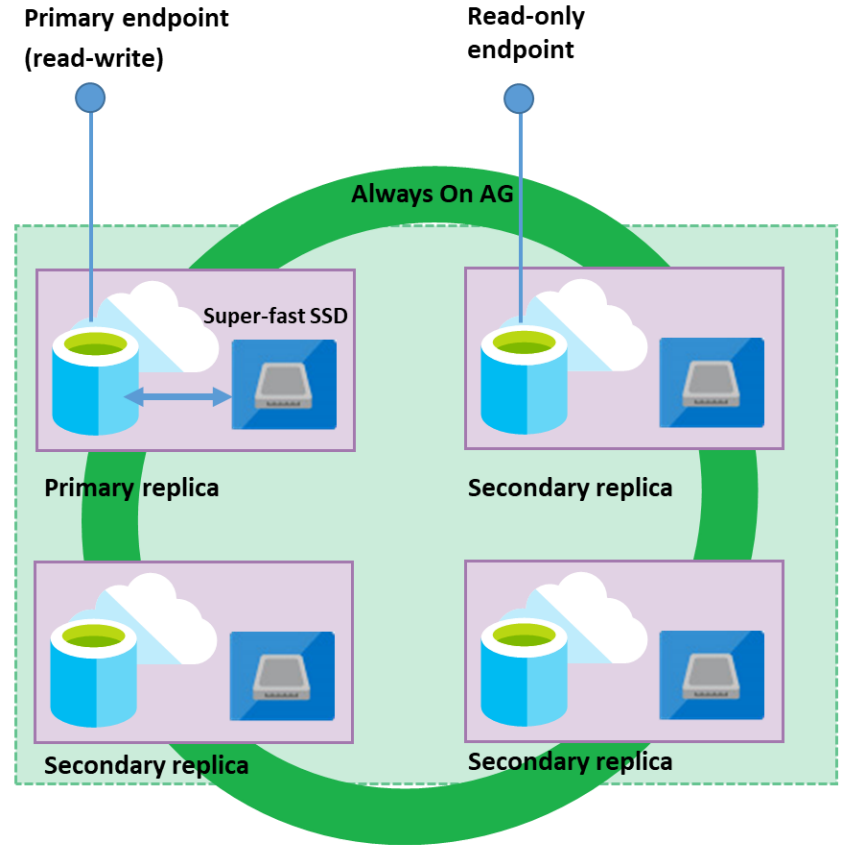
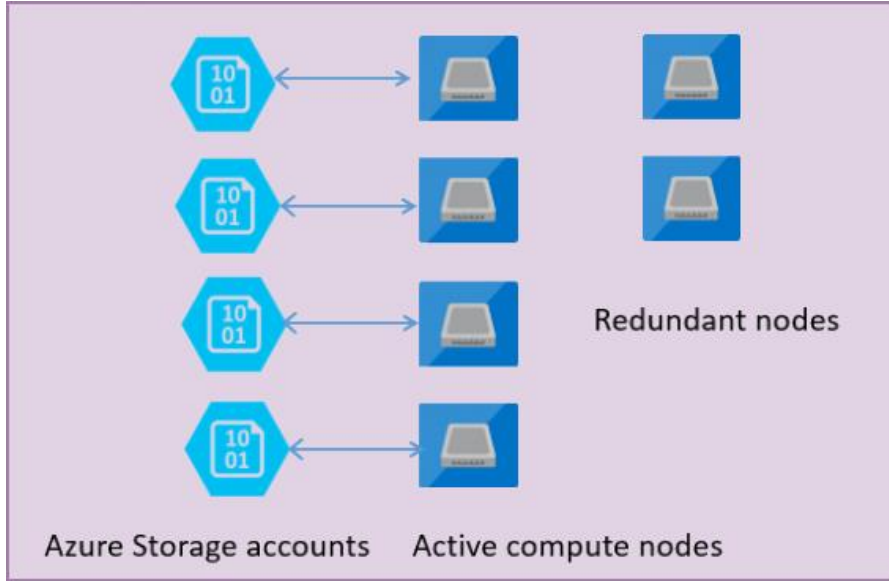
Advanced
Threat
Protection

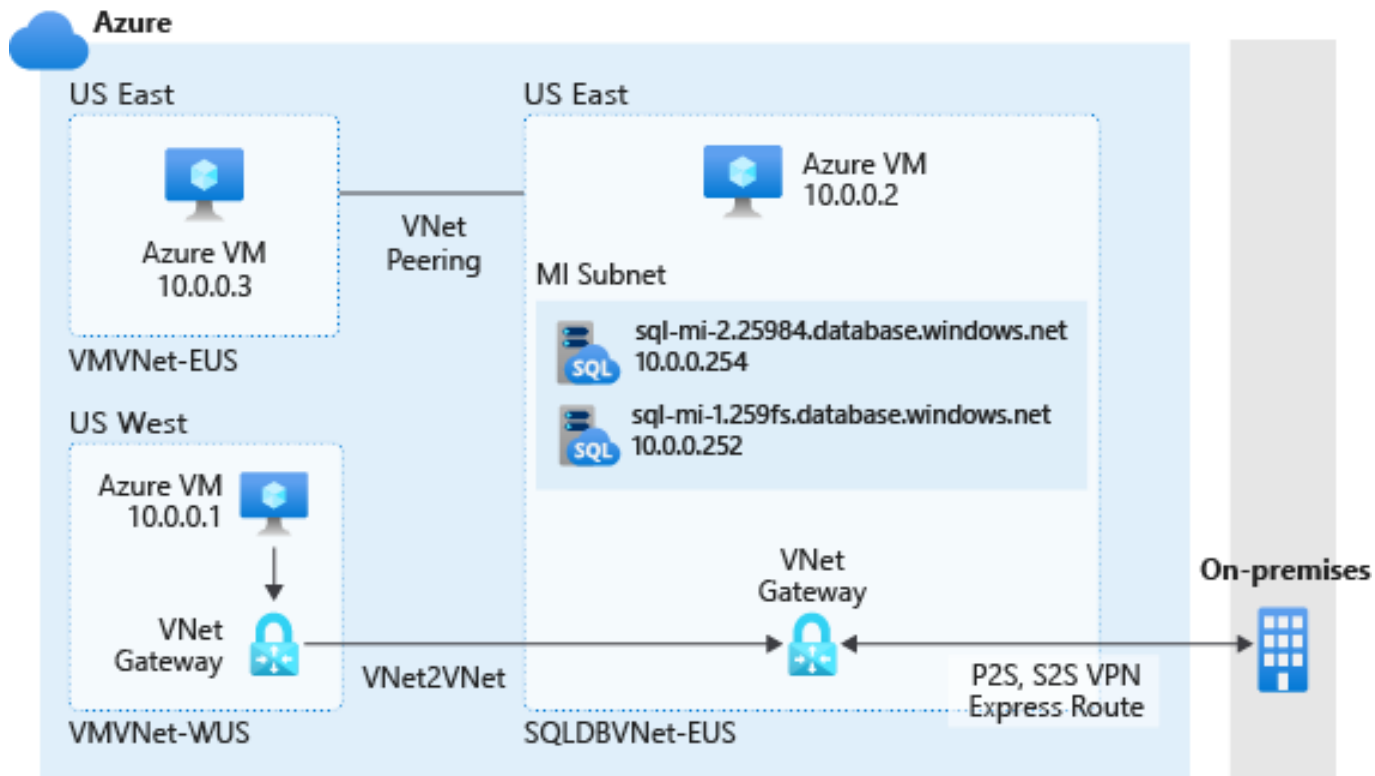
Planung der Bereitstellung

- Bereitstellungsmethode: Azure-Portal oder Befehlszeilenschnittstelle?
- Bereitstellungsoption: VM, Datenbank, Pool für elastische Datenbanken, verwaltete Instanz oder Instanzpool?
- Ausprägung: General Purpose, Business Critical?
- Größe: Anzahl virtueller Kerne und maximale Datengröße ?



Demo







Björn Peters

Kramer&Crew

Senior Consultant Microsoft Data-Platform

www.sql-aus-hamburg.de

bjoern@sql-aus-hamburg.de

[@SQL aus HH](https://www.instagram.com/SQL_aus_HH)

