

About Me

ANDRE ESSING

Senior Consultant Trainer



Microsoft

CERTIFIED

Trainer



Microsoft

Solutions Expert

Data Platform



Profile

DBA and Senior Consultant, Microsoft Certified Solutions Expert, Trainer and SQL Server Enthusiast

- Working in IT since 1998
- SQL Server since version 7.0
- Focus on SQL Server infrastructure and mission critical systems
- Microsoft Certified Trainer and MCSF: Data Platform
- Microsoft P-TSP Data Platform
- Friend of Redgate
- PASS Chapter Leader Bavaria and SQL Saturday Organizer

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Our company.

Trivadis is a market leader in IT consulting, system integration, solution engineering and the provision of IT services focusing on ORACLE* and Microsoft technologies

in Switzerland, Germany, Austria and Denmark. We offer our services in the following strategic business fields:



Trivadis Services takes over the interactive operation of your IT systems.



With over 600 specialists and IT experts in your region.



- 14 Trivadis branches and more than 600 employees
- 200 Service Level Agreements
- Over 4,000 training participants
- Research and development budget: CHF 5.0 / EUR 4 million
- Financially self-supporting and sustainably profitable
- Experience from more than 1,900 projects per year at over 800 customers



■ High availability, what does that mean?

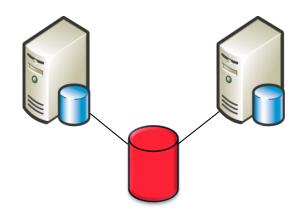
Downtime per year





High Availability Topology – Failover Clustering

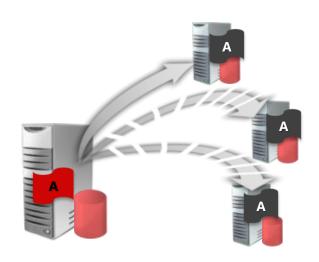
- Operates on instance level
- Multiple nodes possible
- Transparent
- Shared storage required
- Not useable in the cloud actually
- Restrictions in Standard Edition





High Availability Topology – Availability Groups

- Operates on database level
- Group related databases
- Fast failovers
- Transparent failover
- Readable secondaries
- Restrictions in Standard Edition





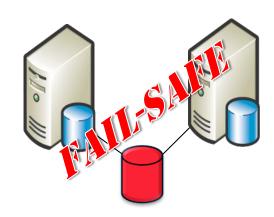
AlwaysOn – data availability for your needs

Data availability on database or instance level

AlwaysOn Availability Groups Availability on database level

AlwaysOn Failover ClusteringAvailability on instance level



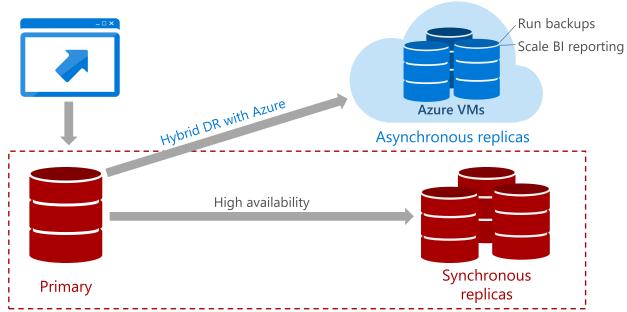




Enhanced AlwaysOn, Simplify HA & DR

increased operational efficiencies with hybrid cloud

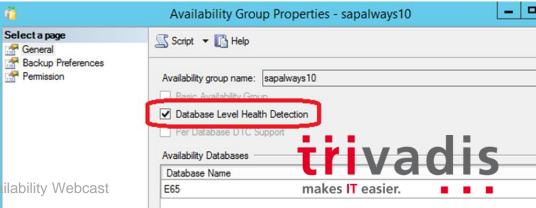




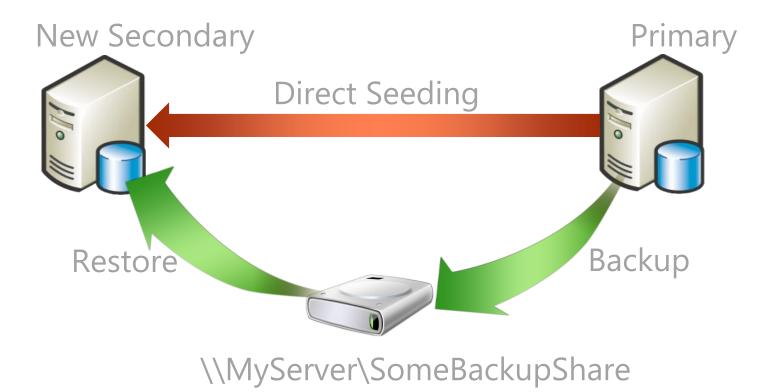


SQL Server 2016 - AlwaysOn Improvements

- Optimization of transport layer for AlwaysOn
- Parallel Redo on secondary replica in order to keep up with primary
- Support for Group Managed Service Accounts
- Read-Only Load Balancing through Routing List
- Check database health
- and more



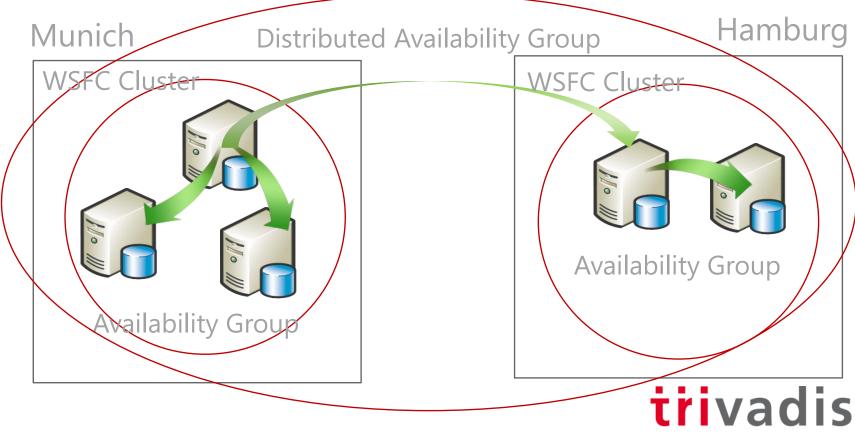
■ SQL Server 2016 – AlwaysOn Automatic Seeding





03.05.2016

SQL Server 2016 –Stretch AlwaysOn configurations



makes IT easier.



