

Who Dares Wins – SQL Server Consolidation in the Cloud

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SQL Server Consolidation in the Cloud

Why Consolidate

What do we Consolidate

How can Azure Help

Questions

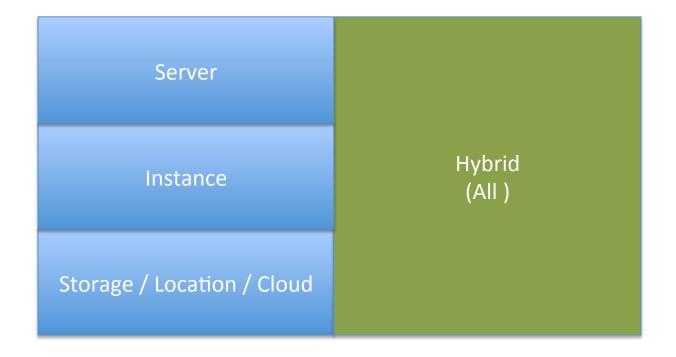


Why Consolidate?





What do we consolidate?





Cloud in Canada





Microsoft Azure

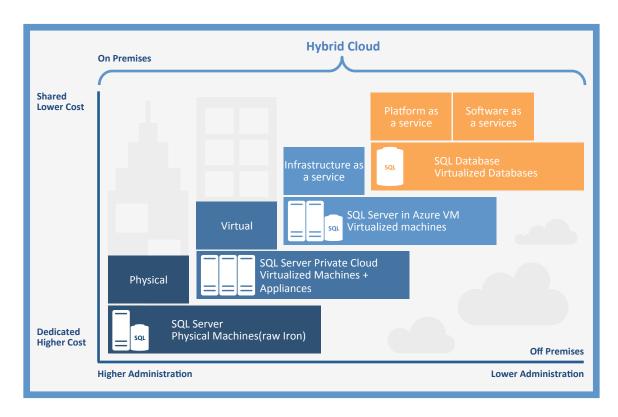








SQL Server, Azure VMs, SQL Database



Options:

SQL Server on physical machines

SQL Server in on-premises VMs (private cloud)

SQL Server in Azure VMs (public cloud)

SQL Database (public cloud)



Easily migrate to Microsoft Azure

Simple single-click migration experience



On-premises

Capability

Along with schema and data, migrate other system objects (logins, jobs, and certificates)

Migrate SQL Server settings (trace flags, default language, and memory settings)

Benefits

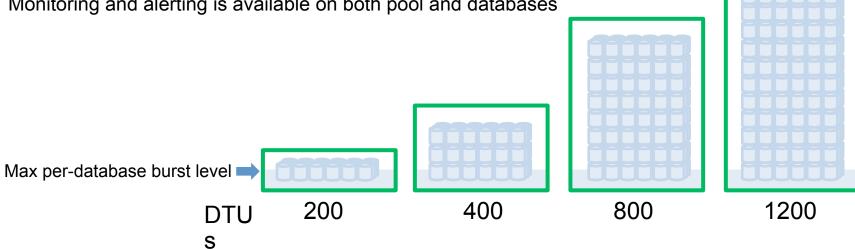
Provide recommendations for image size and virtual machine size

Literally as simple as point and click

Microsoft Azure

Elastic Database Model

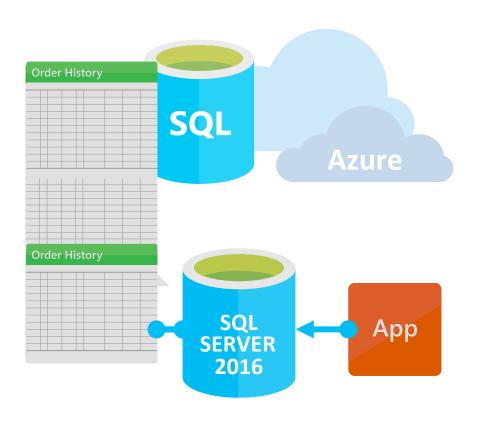
- Pooled resources leveraged by many databases
- **Standard** elastic pool provides 200-1200* DTUs for up to 100* databases
- Elastic Standard databases can burst up to 100 DTUs (S3 level)
- Created/configure pool via portal, PowerShell, REST APIs
- Move databases in/out using portal, PowerShell, REST APIs, T-SQL
- Databases remain online throughout
- Monitoring and alerting is available on both pool and databases





Stretch SQL Server into Azure

Securely stretch cold tables to Azure with remote query processing



Capability

Stretch large operational tables from on-premises to Azure with the ability to query

Benefits

Cost-effective online cold data

Entire table is online and remains queryable from on-premises apps

No application changes

Supports Always Encrypted and row-level security



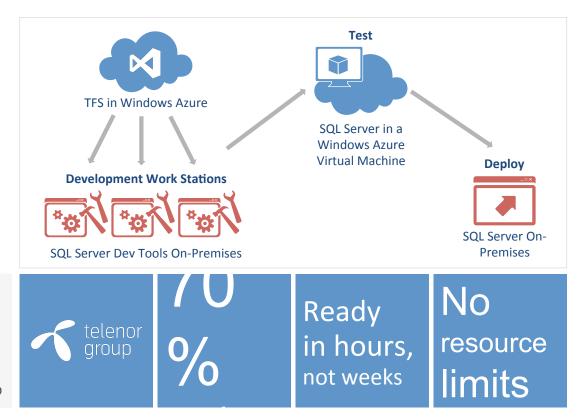
Develop & Test in the Cloud

Key Benefits

Reduce project overhead
Speed time to market
Secure, redundant source
code

"Telenor saved 70% on test, development and demo that could be turned off when finished to minimize their capital outlays,"

Marius Pedersen, Telenor Group





Enhanced backup to Azure



Managed backup

Granular control of the backup schedule

Local staging support for faster recovery and resilient to transient network issues

Support for system databases

Supports simple recovery mode



Backup to Azure block blobs

Cost savings on storage

Significantly improved restore performance

More granular control over Azure Storage



Azure Storage snapshot backup

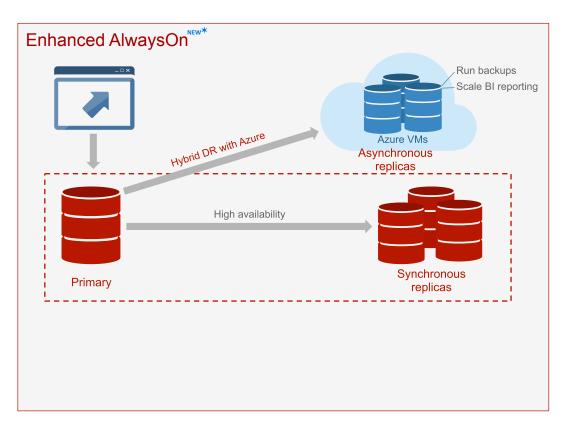
Fastest method for creating backups and running restores

Uses SQL Server database files on Azure Blob storage



Dramatically simplify HA & DR

+35% operational efficiencies with hybrid cloud



- **Easy Setup** of on-premises and hybrid cloud HA & DR
- Load balancing of readable
- secondaries Fast failover on-premises or to cloud



Azure SQL DW Service

A relational data warehouse-as-a-service, fully managed by Microsoft. Industries first elastic cloud data warehouse with proven SQL Server capabilities. Support your smallest to your largest data storage needs.





Questions ???

