Agenda





A Continuous Offering From Private To Public Clouc

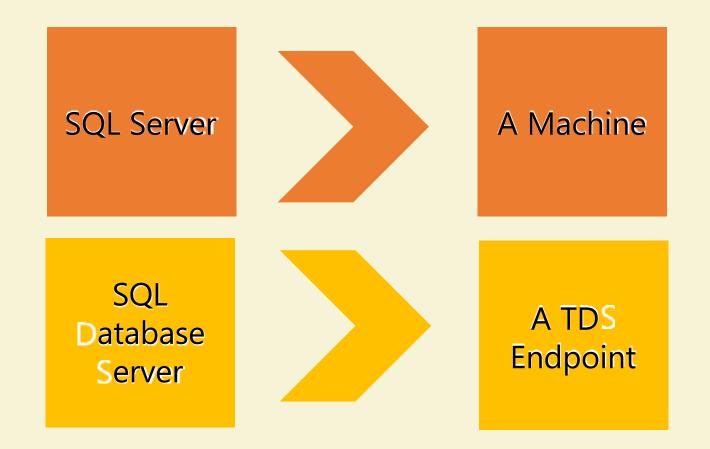
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Architecture

A Server Is Not A Machine



How It Works

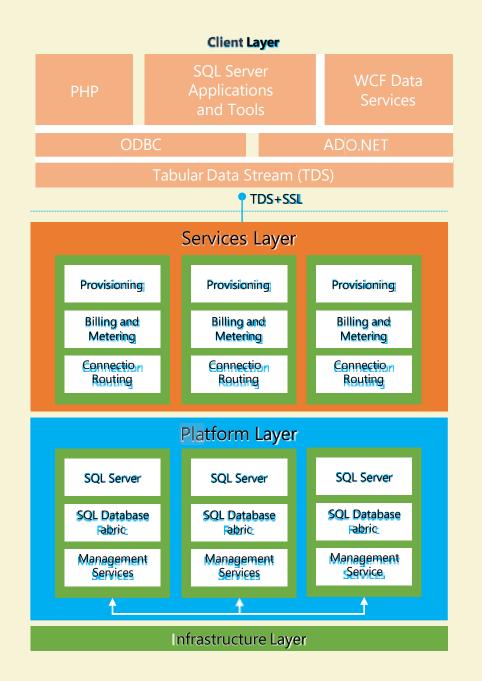
Architecture

Client Layer - Used by application to communicate directly with SQL Database.

Services Layer – Gateway between Client layer and Platform layer.

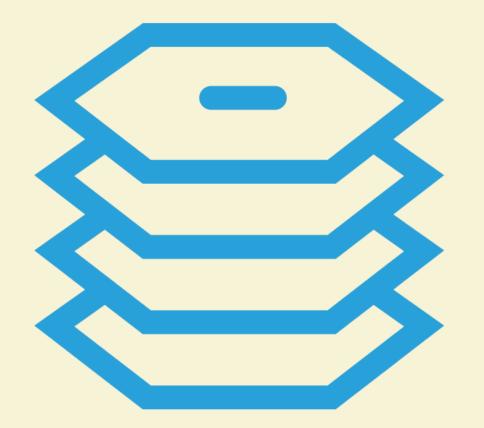
Platform Layer – Includes physical servicers and services that support the Services layer.

Infrastructure Layer – IT administration of the physical HW and OS.



Starting With The Basics

The Basics



SQL Database

SQL Server database technology as a service Fully Managed Enterprise-ready with automatic support for HA Designed to scale out elastically with demand Ideal for simple and complex applications

Server Provisioning

Server Defined

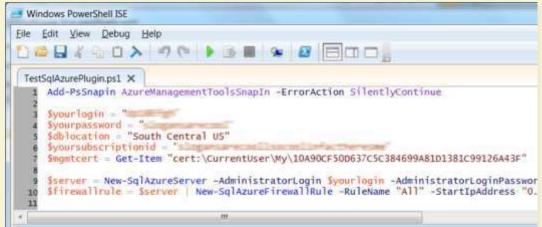
Service head that contains databases Connect via automatically generated FQDN ()

Initially contains only a master database

Provision Servers Interactively Log on to Microsoft Azure Management Portal

Create a SQL Database server Specify admin login credentials Add firewall rules and enable service access





Selecting the right Edition

Service Performance Tier Level		Common App Pattern		Performance	Business Continuity		
			Max DB Size	Trans. Perf. Objective	DTUs	PITR	DR / GEO-Rep
Basic	Basic	Small DB, SQL opp	2 GB	Reliability / Hr.	5	Past 7 Days	DB Copy + Manual Export
Standard	S1 / S2	Wrkgp/cloud app, multiple concurrent operations	250 GB	Reliability / Min.	15/ 50	Past 14 Days	DB Copy + Manual Export
Premium	P1 / P2 / P3	Mission Critical, High volume, Many concurrent Users	500 GB	Reliability / sec.	100/ 200/ 800	Past 35 Days	Active Geo- replication

Creating A SQL Database Server

Create And Deploy Your Database

Create Database..

Use Familiar Technologies

Transact-SQL

Languages

- .NET Framework (C#, Visual Basic, F#) via ADO.NET
- C / C++ via ODBC
- Java via Microsoft JDBC provide
- PHP via Microsoft PHP provider

Frameworks

OData, Entity Framework, WCF Data Services, NHibernate

Tools

- SQL Server Management Studio (2008 R2 and later) SQL Server command-line utilities (SQLCMD, BCP) CA Erwin[®] Data Modeler
- Embarcadero Technologies DBArtisan®

SQL Server Comparison

Focus on logical vs. physical administration Database and log files automatically placed Three high-availability replicas maintained for every database Tables require a clustered index Maximum database size is 500 GB

Unsupported SQL Server Features

Use command, distributed transactions, distributed views Service Broker Common Language Runtime (CLR) SQL Agent SQL Profiler Native Encryption

Enhanced Tooling

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SQL Database Management Portal

Neb designers for tables, views, stored procs nteractive query editing and execution

SQL Server Data Tools (SSDT)

Visual Studio IDE for database development

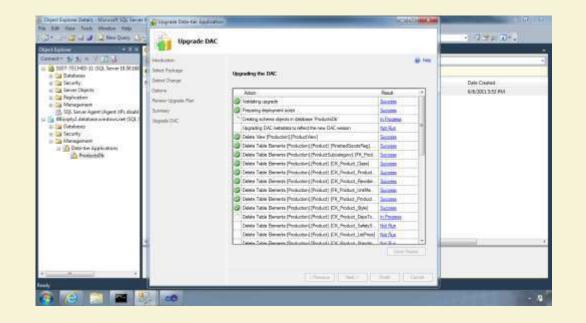
Includes modern designers and projects with declarative, model-driven development

Develop and test in both connected and disconnected states

<u>Pla</u>tform targeting for both SQL Server (2005 and above) and SQL Database

Get it <u>free</u> with Web Pl, with SQL Server 2012 and with Visual Studio 11

Database Deployment



Data-Tier Application Framework (DAC Fx) Alternative to traditional script based approach Dramatically simplifies deployment, migration and versioning of databases Provides a single unit of deployment for schema (dacpac) or for schema + data (bacpac) Supports automatic versioning of database schemas Supports platform targeting for both SQL Server (2005 and above) and SQL Database Build from scratch or extract from

Demo

DAC Deployment From SQL Server Management Studio

Secure Your Database

There Are Two Ways To Secure A Database:





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