
INTRO TO AZURE SQL DATABASES



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Agenda

What is Azure SQL Database?

Pieces and Parts

Using the Database



What is Azure SQL Database?



The Usual Way

The screenshot displays the Windows Server Manager interface for a local server named 'PIKE'. The left-hand navigation pane includes links to the Dashboard, Local Server, All Servers, AD DS, DHCP, DNS, and File and Storage Services. The main area is divided into three sections: Properties, Events, and Services.

PROPERTIES
For PIKE

Computer name	PIKE	Last installed updates	10/5/2016 10:08 AM
Domain	starfleet.com	Windows Update	Install updates automatically using Windows Update
		Last checked for updates	10/5/2016 10:02 AM
Windows Firewall	Domain: On	Windows Defender	Real-Time Protection: On
Remote management	Enabled	Windows Error Reporting	On
Remote Desktop	Disabled	Customer Experience Improvement Program	Not participating
NIC Teaming	Disabled	IE Enhanced Security Configuration	Off
Ethernet 2	10.10.10.1, IPv6 enabled	Time zone	(UTC-07:00) Mountain Time (US & Canada)
		Product ID	00134-12500-02407-AA900 (activated)
Operating system version	Microsoft Windows Server 2016 Standard Technical Preview 5	Processors	Intel(R) Core(TM) i7-4650U CPU @ 1.70GHz
Hardware information	Microsoft Corporation Virtual Machine	Installed memory (RAM)	1.6 GB
		Total disk space	40 GB

EVENTS
All events | 20 total

Server Name	ID	Severity	Source	Log	Date and Time
PIKE	1076	Warning	User32	System	10/12/2016 10:07:25 AM
PIKE	1014	Warning	Microsoft-Windows-DNS Client Events	System	10/12/2016 8:38:14 AM
PIKE	7023	Error	Microsoft-Windows-Service Control Manager	System	10/11/2016 4:14:22 PM
PIKE	7023	Error	Microsoft-Windows-Service Control Manager	System	10/11/2016 4:14:22 PM
PIKE	7023	Error	Microsoft-Windows-Service Control Manager	System	10/11/2016 4:14:22 PM
PIKE	7023	Error	Microsoft-Windows-Service Control Manager	System	10/11/2016 4:09:22 PM
PIKE	144	Warning	Microsoft-Windows-Time-Service	System	10/11/2016 4:00:03 PM

SERVICES
All services | 201 total

What is it?



PaaS



Why?



...patching

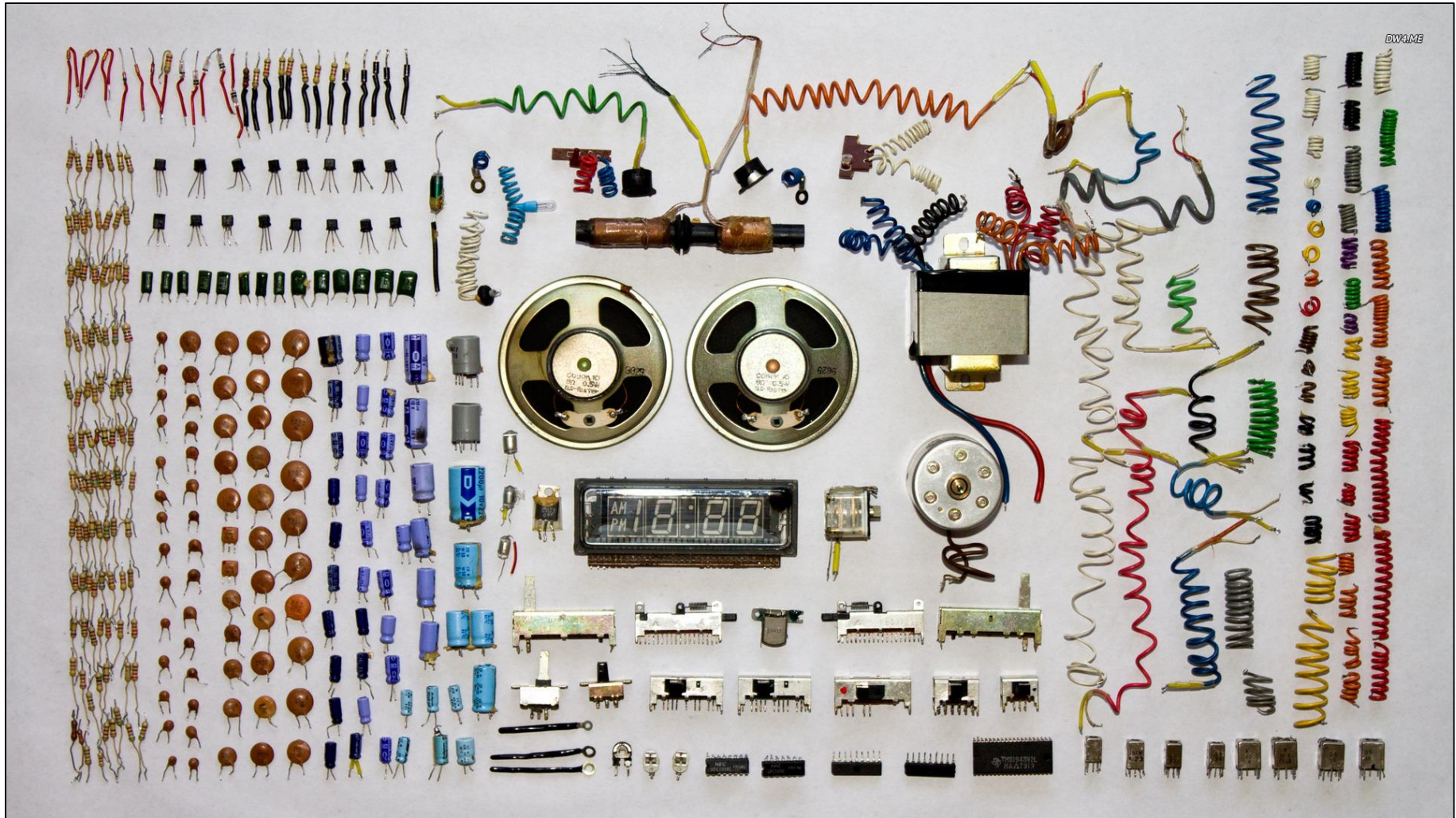
...hardware pain

...worrying about backups

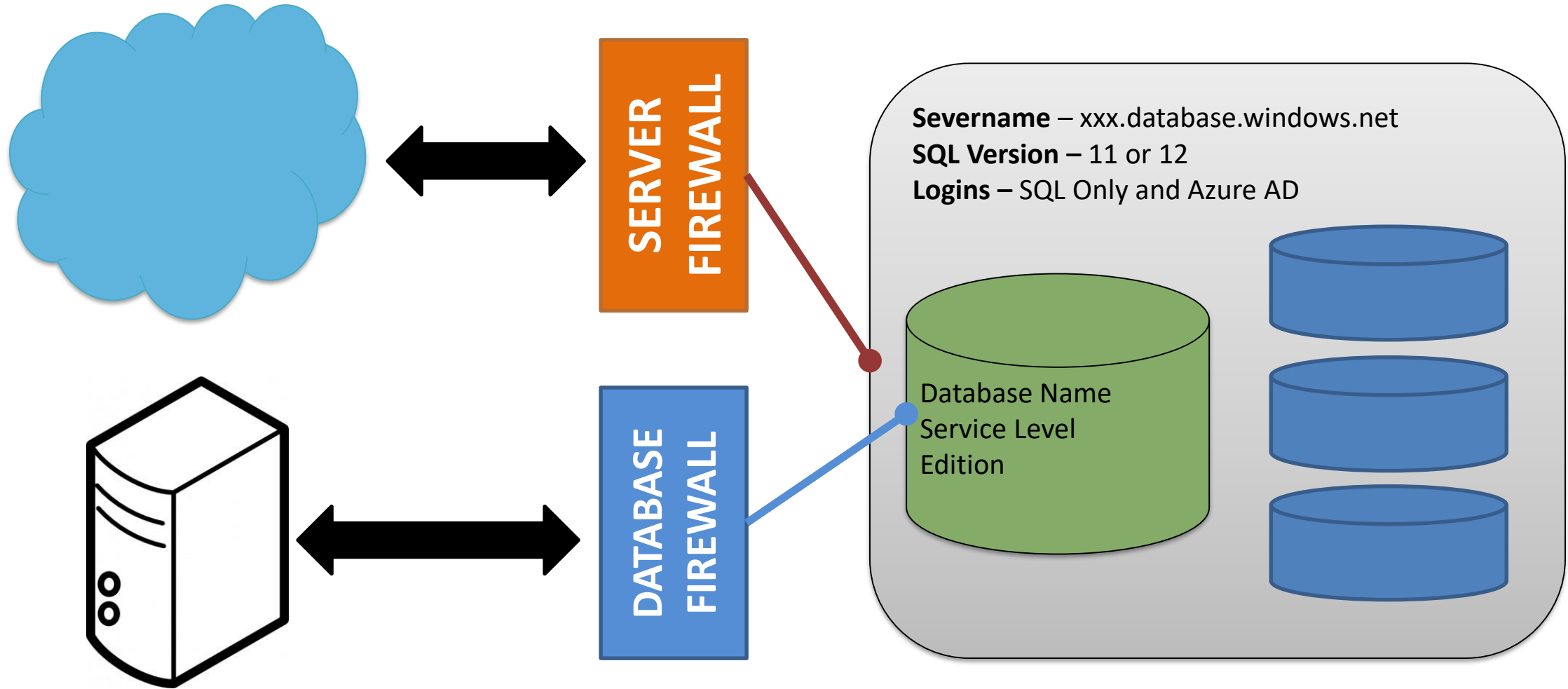
...running out of space

(sort of)

Components



What do you get?



Service Levels

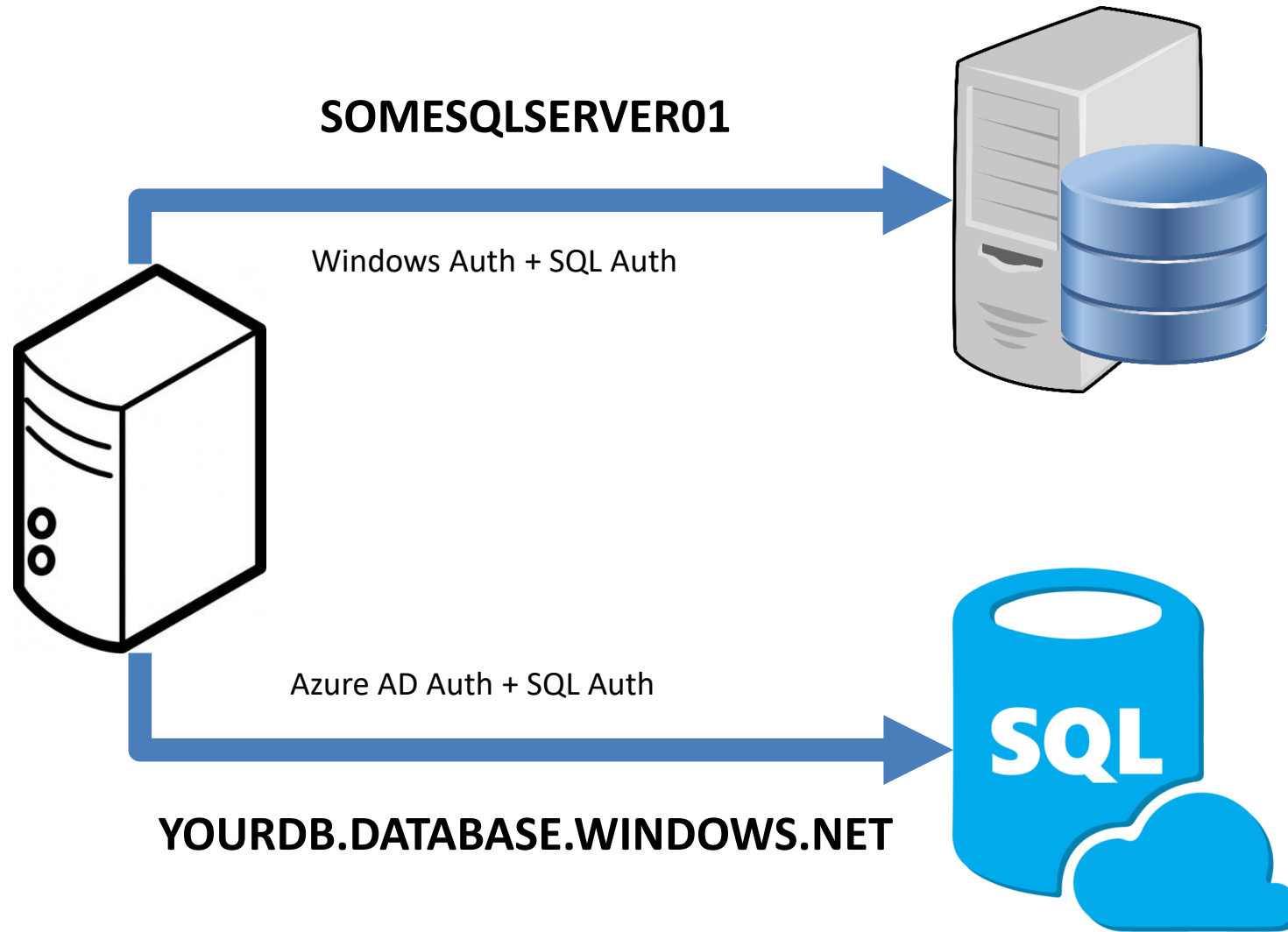


<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tiers>

Using Azure SQL Database



Connecting



Version 12 - Supported

Cutting edge features

- Adaptive Query Processing
- Automatic threat detection

SQL Server 2016 features

- Row Level Security
- Data Masking
- Always Encrypted

Other SQL Features

- In Memory OLTP
- In Memory columnstore
- Table Partitioning

Cloud only features

- Active Geo-Replication



Not available

Unsupported

- Cross database stuff
- Server configuration
- Linked Servers
- Resource Governor
- Service Broker
- CLR
- And so on...



<https://azure.microsoft.com/en-us/documentation/articles/sql-database-transact-sql-information/>

PhotoExtremist.com



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Questions



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