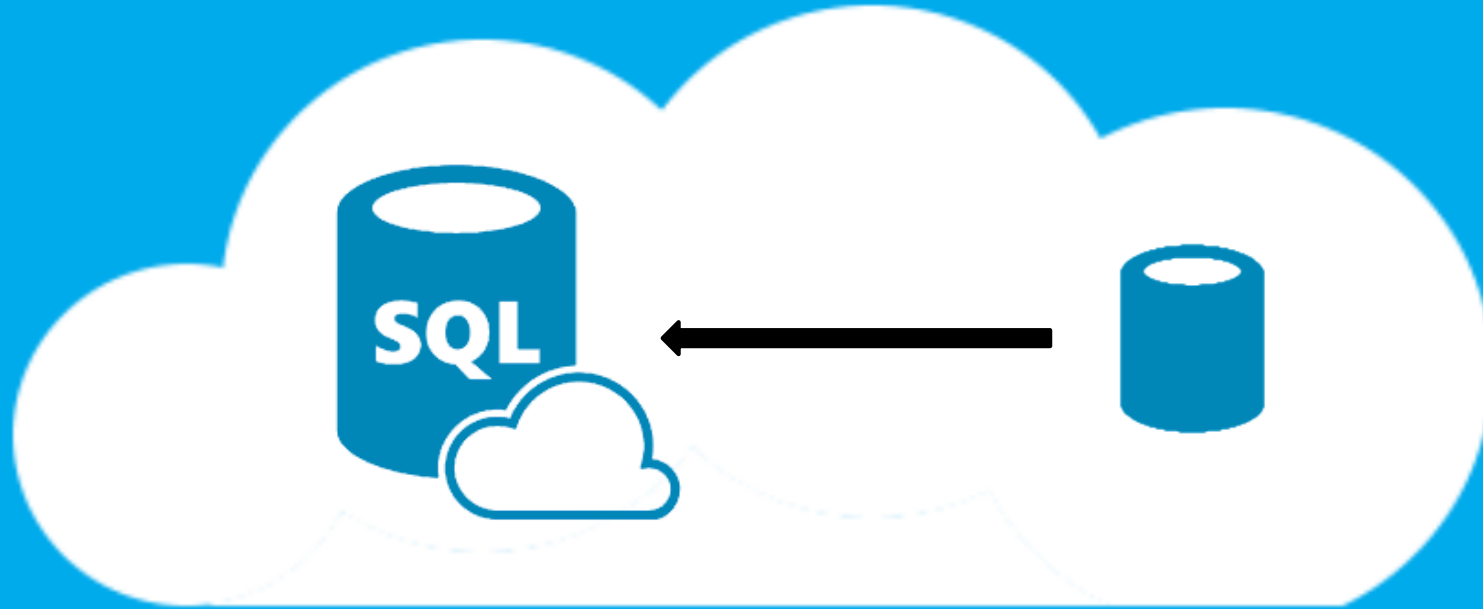


Migrate DB to Azure SQL



Taiob M Ali

Work

- 11 years as DBA
- MCSA SQL Server 2012/2014
- 10 years in Merchant Marine

Outside Work

- Running—One 26.2 and Many 13.1
- Shuttling 3 kids

Giving Back

- Frequent speaker local user groups & SQL Saturdays
- Answering question at #sqlhelp & dba.stackexchange
- Blog at sqlworldwide.com

Agenda

- Azure Overview
- Free Credit
- Azure SQL Database Logical Server
- Storage Account
- Ways to Migrate

Best Azure Definition

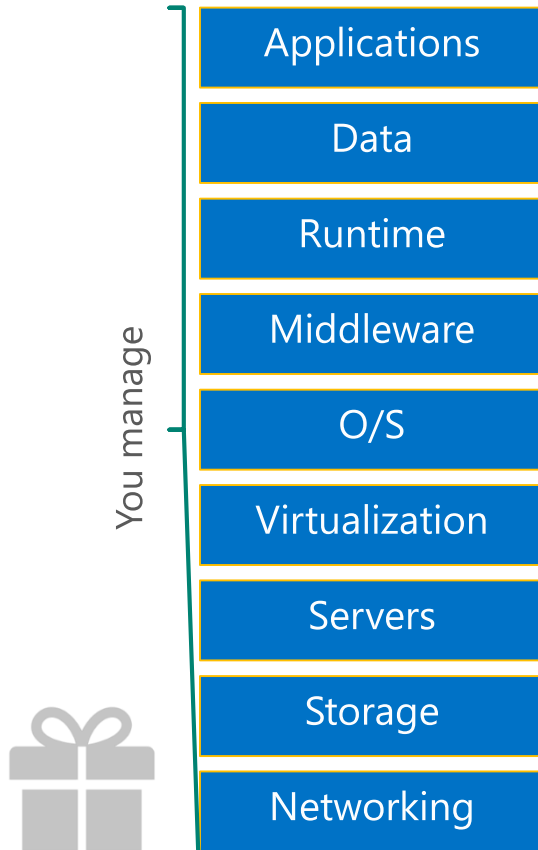
Microsoft Azure allows you to perform virtually any compute or data storage operation by provisioning and scaling the necessary resources **on demand** and **pay-as-you-go** basis.

Bob Tabor in his Microsoft Azure Fundamentals course in Microsoft Virtual Academy

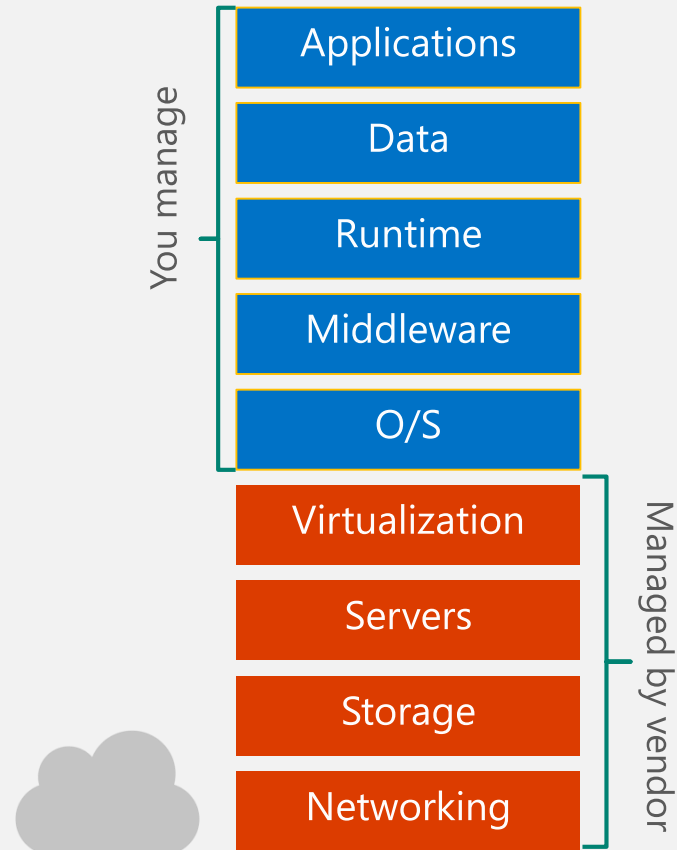
Cloud Computing



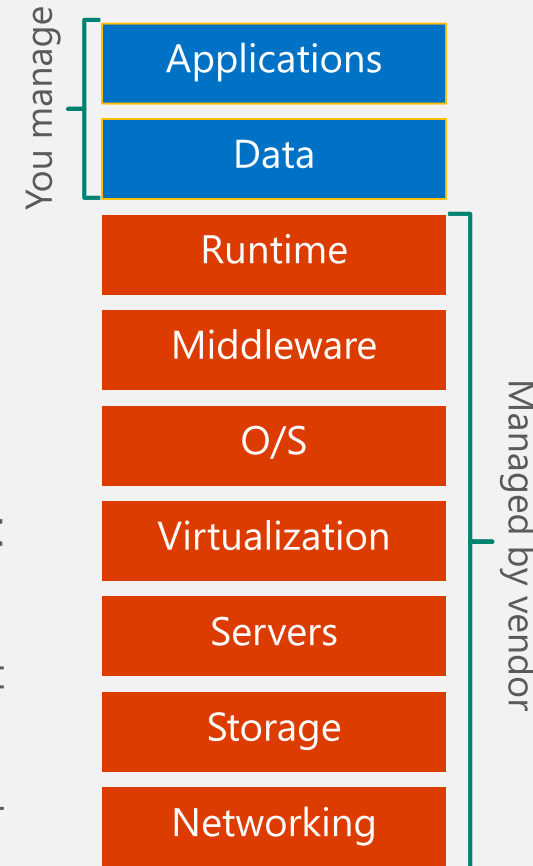
Your Datacenter



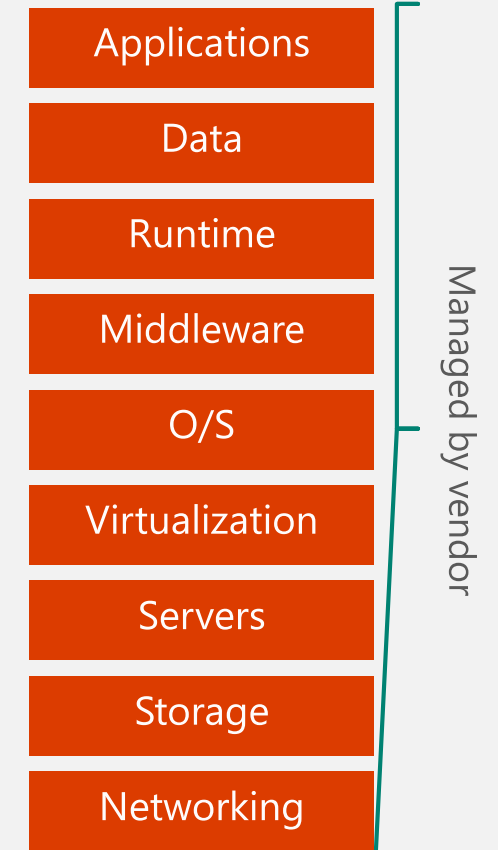
Infrastructure (as a Service)



Platform (as a Service)



Software (as a Service)



Azure Free Trial

Activate >

\$200 for 30 days

bit.ly/200dollar

Need Credit Card



\$25/month for 12 months

bit.ly/25fr12mon

No Credit Card

Visual Studio subscribers

Try out different Azure services, experiment, and learn.

Create development environments whenever you need.

Great for individual dev/test workloads.

Activate your monthly Azure credit >

\$50-\$150/month
for VS
Subscribers

bit.ly/VSCredit

No Credit Card

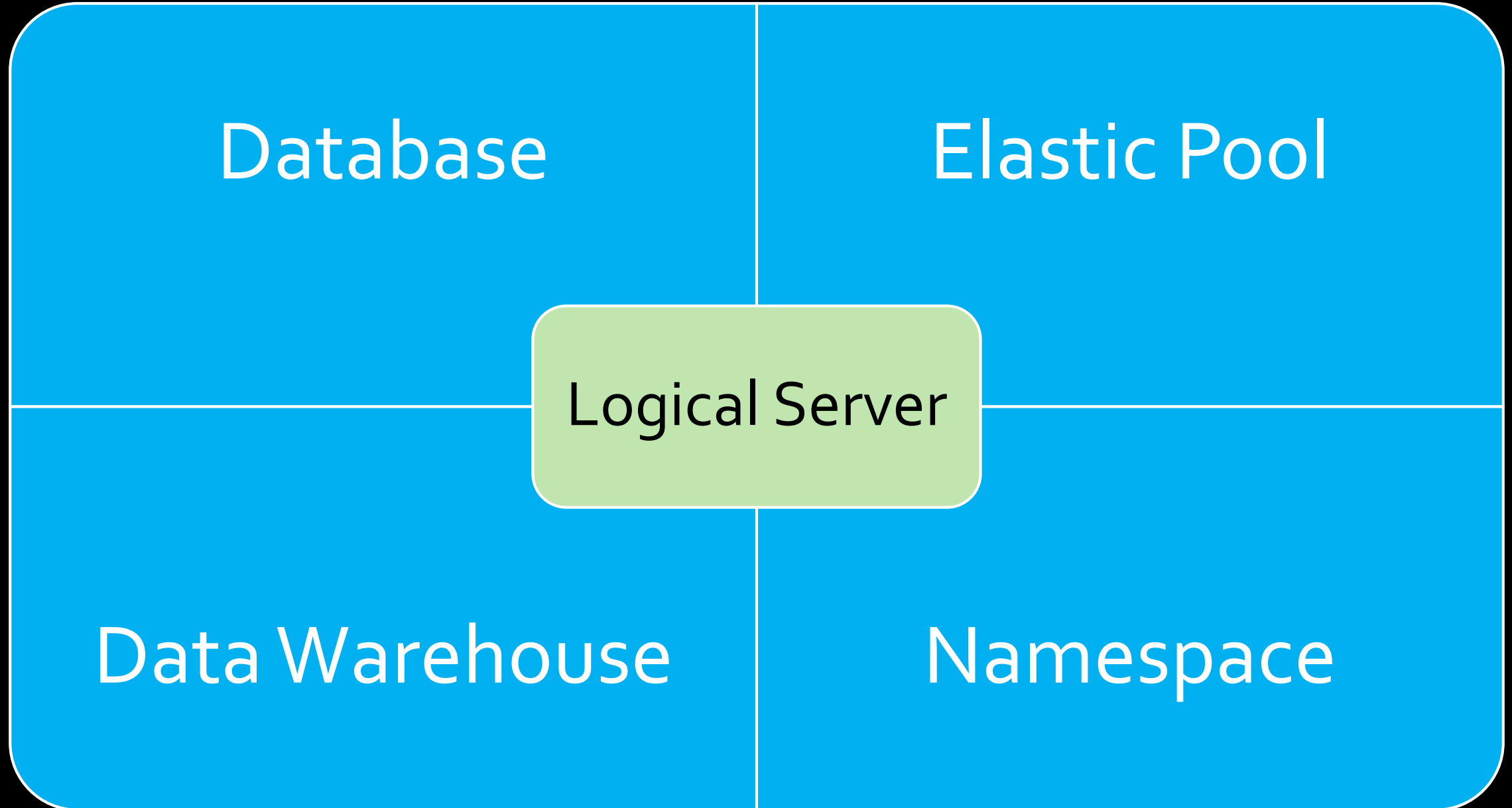
Database

Elastic Pool

Logical Server

Data Warehouse

Namespace



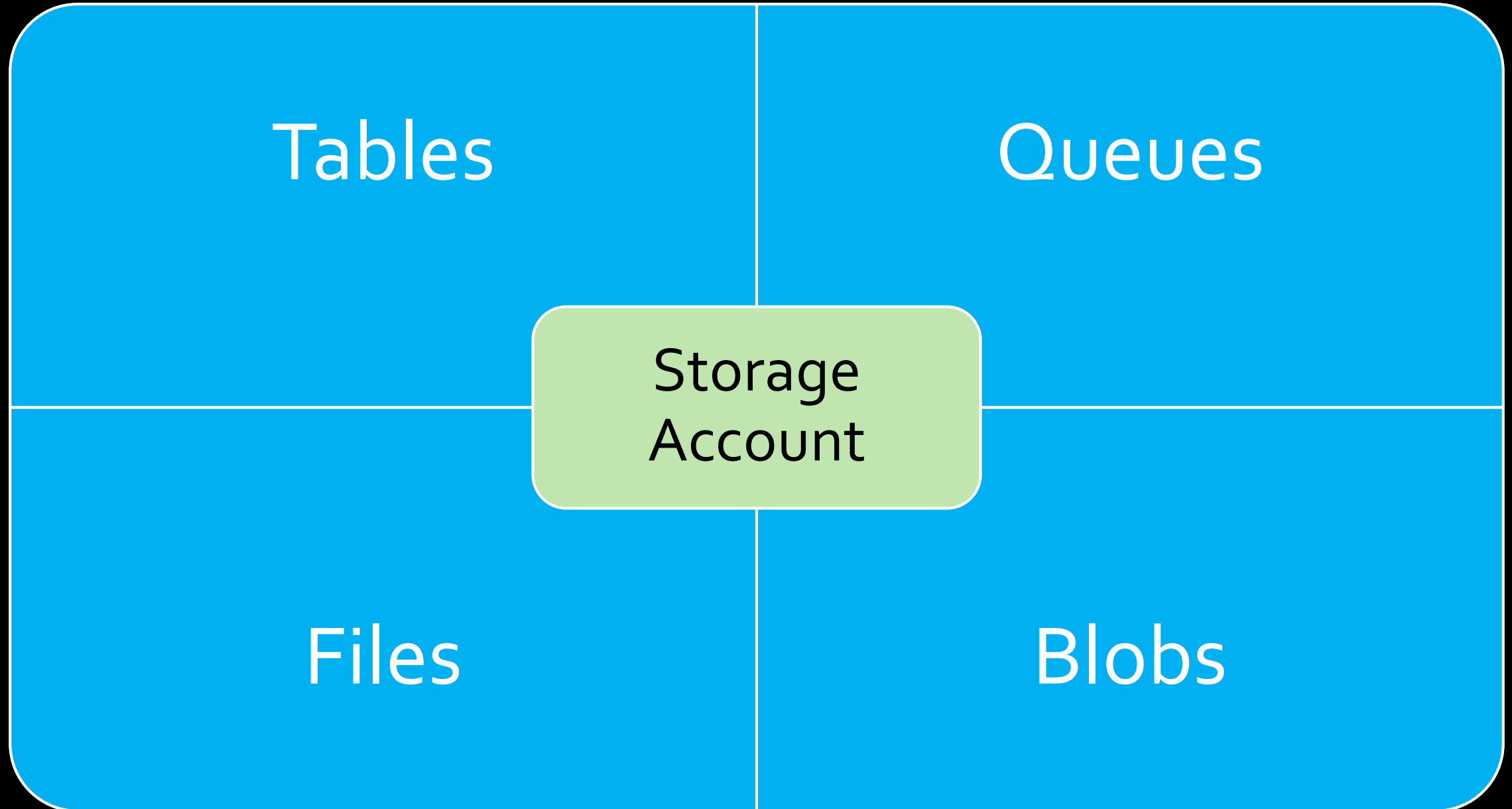
Tables

Queues

Storage
Account

Files

Blobs



.DACPAC

.BACPAC

Can be interacted using SSMS, PowerShell and .NET

Can see XML content by renaming to .zip

Schema

Schema +
Data



- 1 SSMS
- 2 SQL Azure Migration Wizard
- 3 SSDT Using Visual Studio
- 4 SqlPackage.exe / BACPAC



SSMS

Schema +
Data

BACPAC file

Small to
Medium DB

No report

Migration Wizard

Schema or
Data

Migrate +
Analyze

CodePlex not
Latest Schema

Not for Many
Fix

SSDT

Schema Only

Keep Source
Intact

Publish from
VS Directly

Large Schema
Change

SQL Package

Schema +
Data

BACPAC or
DACPAC

Analyze for
Compatibility

Export/Import

- ❑ \$200 for 30 days
- ❑ \$25/month for 12 months
- ❑ \$50-\$150/month VS Subscribers



Resource

- [Sample Database](#)
- [SQL Server database migration to cloud](#)
- [Download Azure Migration Wizard](#)
- [Download Data-Tier Application Framework](#)
- [Download and Use AzCopy](#)
- [What is DACPAC and BACPAC](#)
- [Server Tier and Performance Levels](#)



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