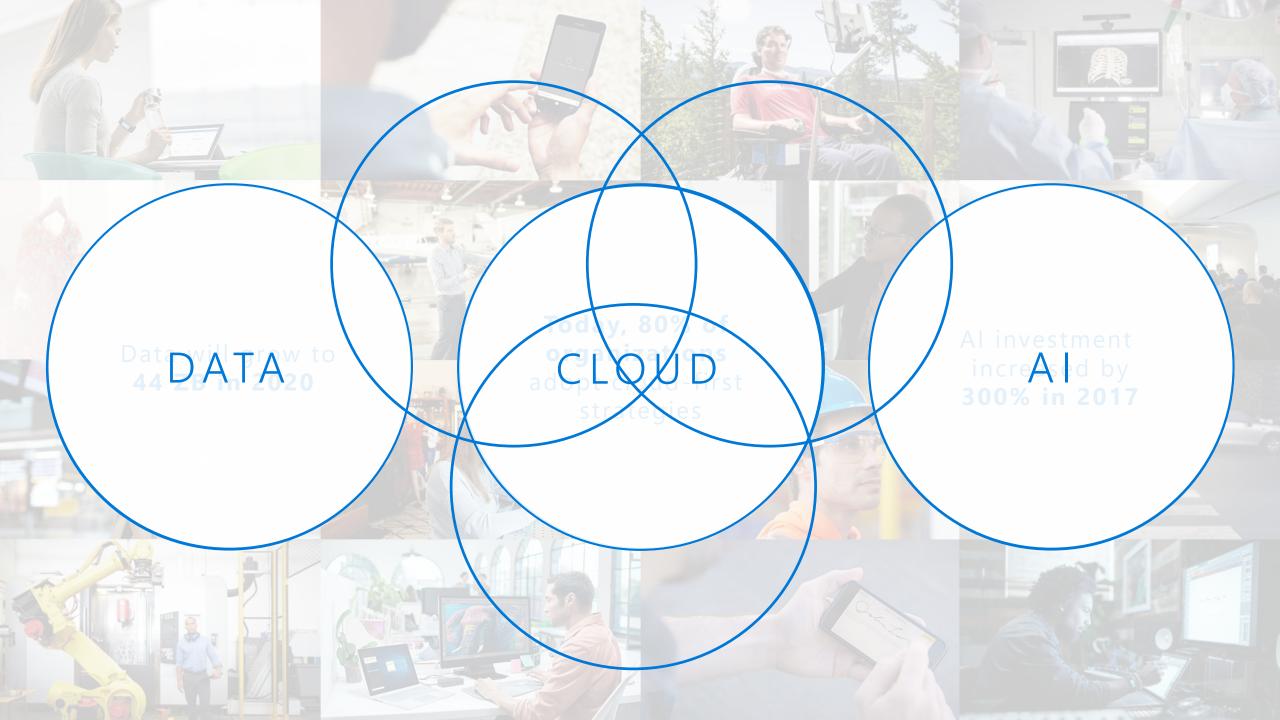


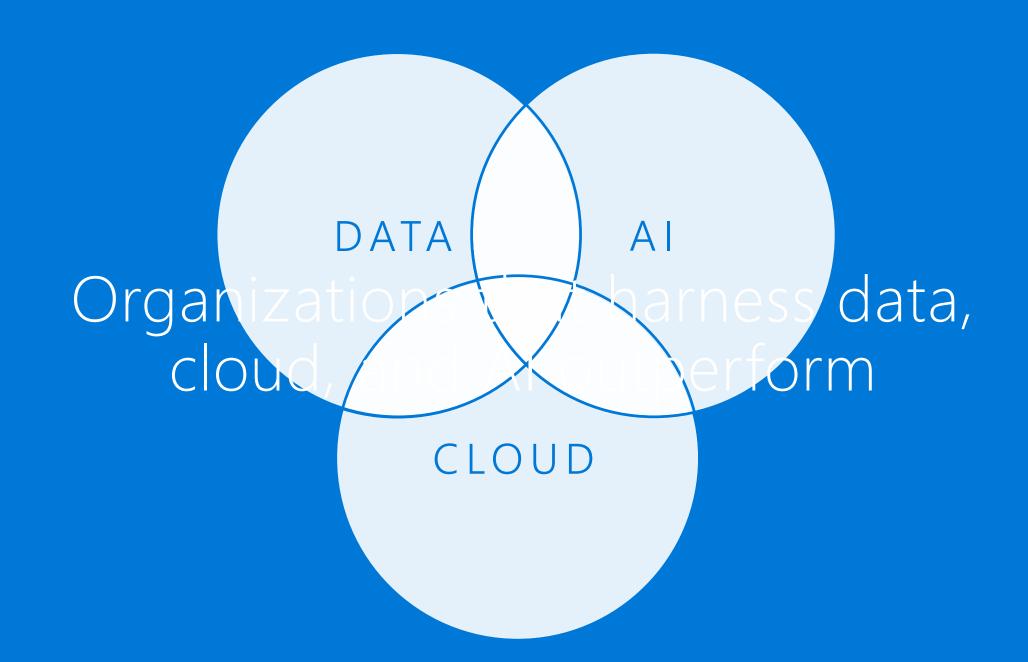
Transform your data estate with cloud, data and Al

SQL Server 2017 and Azure Data Services









Companies surveyed include well-known enterprises across key industries

Financial services





















Retail

Consumer goods





Manufacturing

























Organizations that harness data, cloud, and Al outperform

Nearly double operating margin

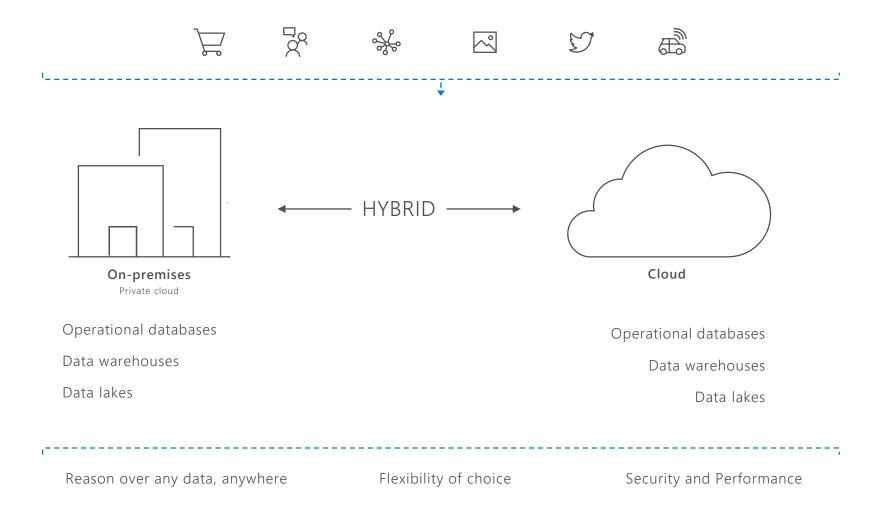
\$100M in additional operating income

They out-innovate



They rely on a modern data estate

THE MODERN DATA ESTATE



THE MODERN DATA ESTATE

Microsoft's on-premises solution

















Operational databases > Industry leader 4 years in a row

Data warehouses



#1 TPC-H performance

Data lakes



T-SQL query over any data

Reason over any data, anywhere



Only commercial DB with Al built-in





Flexibility of choice



Any language, any platform, anywhere



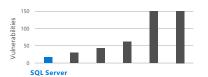




Security and Performance



Most secure over last 7 years





SQL SERVER 2017

INDUSTRY-LEADING PERFORMANCE AND SECURITY NOW ON LINUX AND DOCKER

Choice of platform and language







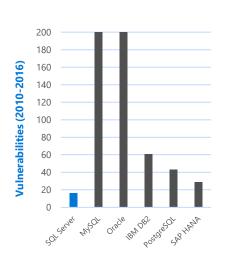
T-SQL PHP
Java Node.js
C/C++ Python
C#/VB.NET Ruby

Industry-leading performance



#1 OLTP performance#1 DW performance#1 price/performance

Most secure over the last 7 years



Only commercial DB with AI built-in

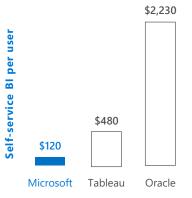




R and Python + in-memory at massive scale

Native T-SQL scoring

End-to-end mobile BI on any device



A fraction of the cost

In-memory across all workloads





INDUSTRY LEADING TCO

AVOID EXPENSIVE ORACLE ADD-ONS WITH BUILT-IN FEATURES

IN-DB ADVANCED ANALYTICS \$320K **Everything** built-in MOBILE BI & SELF-SERVICE BI **SQL Server** #1 TPC-H—DW \$3,745,000 11.7x **BUILT-IN ETL** more **INDUSTRY LEADER—OLTP ORACLE**

NEW FEATURES IN SQL SERVER 2017

Support for graph data and queries

Advanced Machine Learning with R & Python

Native T-SQL scoring

Adaptive Query Processing and Automatic Plan Correction

Cross Platform HA (OS level redundancy)

Agile Dev/Ops with support for containers



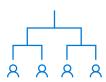
SQL BASED TECHNOLOGIES SUPPORT YOUR GDPR SECURITY NEEDS



Track personal data

Easily query databases to uncover personal data

Tag data with sensitivity labels using Extended Properties



Separation of duties

Securely authenticate to your database and apply granular authorization policies

Restrict access to users using Dynamic Data Masking and Row-Level Security



Encryption everywhere

Encrypt data whether at rest, in transit or in client applications

Track and log database events to identify potential threats or security violations

Use continuously learning algorithms to identify unusual or suspicious activity



Audit capabilities

Track and report on all database activities with granularly configurable auditing



Consistent programmability experience

Developers and application partners can build to a single programming surface

Scale across SQL editions and the cloud

SQL Query Language

Dynamic Data Masking (DDM)

Row-Level Security (RLS)

Windows Server authentication

SQL Server 2017 features

Transparent Data Encryption

Always Encrypted

Auditing for SQL Database and SQL Server audit

Temporal tables
SQL Database Threat
Detection

Since SQL Server 2016 SP1

700K + CUSTOMERS PROTECTED

Most secure database

CHALLENGE

Ecuadorian bank must provide unwavering security for customers while data volume and distribution channels rapidly expand

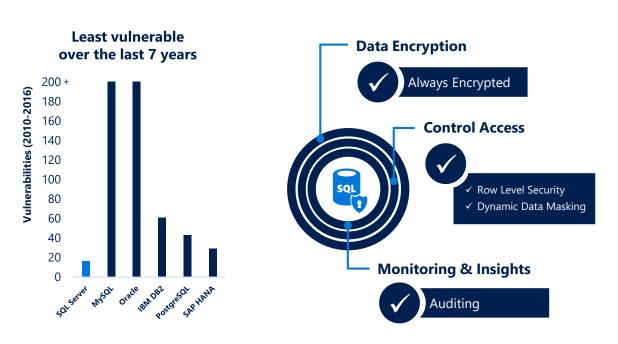
IMPACT

Internal data concealed with **Dynamic Data Masking** while testing applications

Customer data protected from app to database with Always Encrypted and Row Level Security

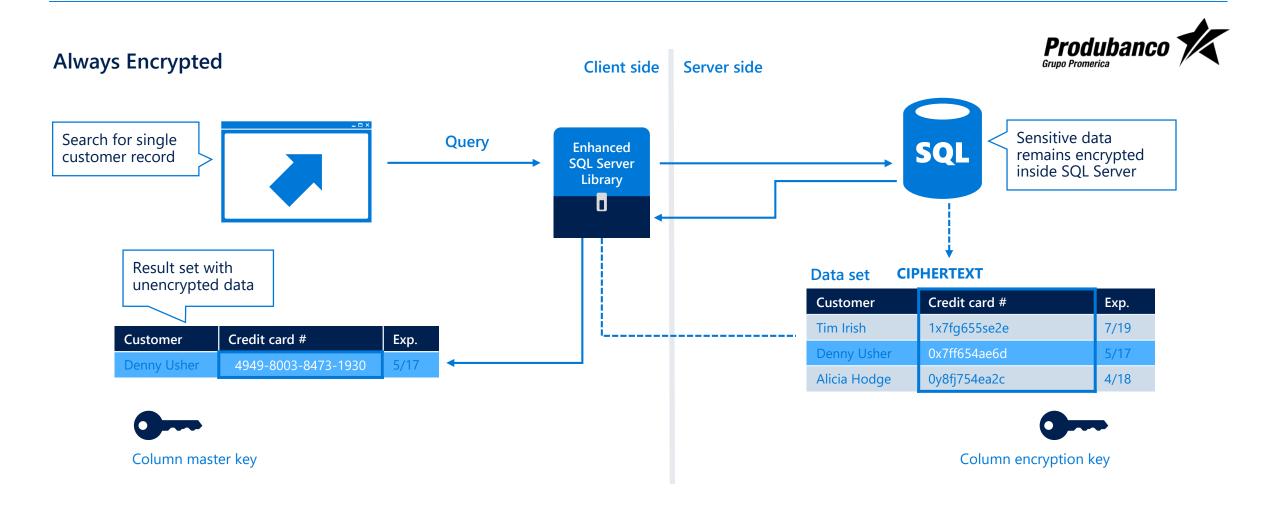


Layers of security

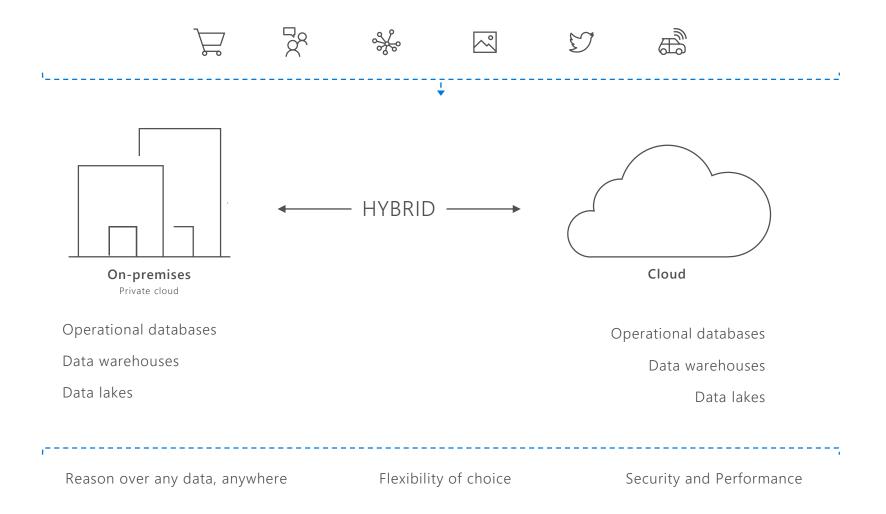


Protection at rest and in motion

ENCRYPT DATA AT REST AND IN MOTION



THE MODERN DATA ESTATE



THE MODERN DATA ESTATE

Microsoft's cloud solution















Operational databases



70% faster than competition **Azure SQL Database**



<10ms latency SLAs Azure Cosmos DB, Postgres, MySQL

Data warehouses



2x the global reach Azure SQL Data Warehouse

Data lakes



99.9% SLA

Azure Data Lake, Databricks, HDInsight

Reason over any data, anywhere





Flexibility of choice



More certifications

Al built-in



Any language, any platform, anywhere

JAVA





than any other cloud

Security and performance



R 🗬







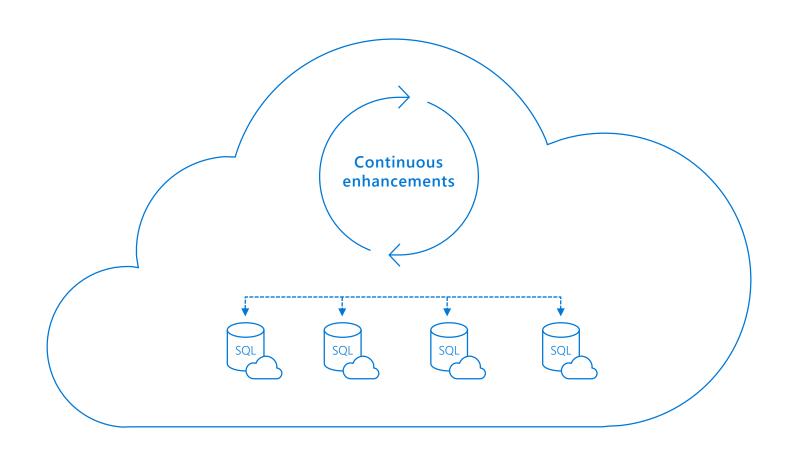








CLOUD-FIRST APPROACH BREEDS FASTER INNOVATION



STREAMLINE YOUR JOURNEY TO THE CLOUD WITH EASY APP MODERNIZATION

LIFT + SHIFT AND TRANSFORM

Seamless and reliable migration at scale

Lift and shift to the cloud with no code changes

Modernize across SQL Server, PostgreSQL, MySQL and MongoDB

Maximize current on-premises license investments with Azure Hybrid Benefit NEW

Azure Database Migration Service **SQL** Server **OSS** databases

Azure SQL Database

Azure Cosmos DB with MongoDB API

Azure Database for MySQL

Azure Database for PostgreSQL



Azure Hybrid Benefit's family of savings

Customers with active Software Assurance on their SQL Server and Windows Server licenses can leverage Azure Hybrid Benefit for both VM and fully-managed scenarios to unlock savings up to 55%¹

Windows Server

Leverage Azure Hybrid Benefit for Windows Server to pay a reduced rate, and combine Azure Hybrid Benefit for SQL Server for even greater savings

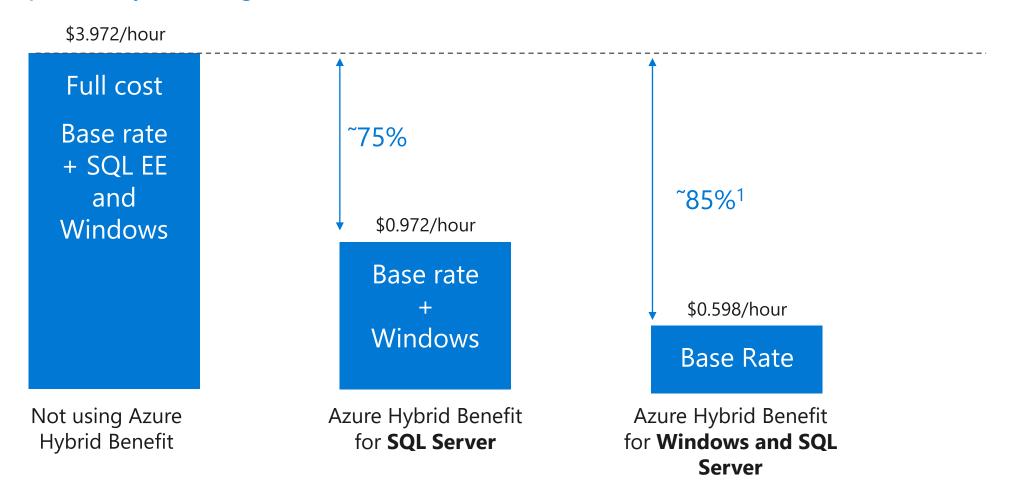
SQL Server on Azure Virtual Machines

Leverage Azure Hybrid Benefit for SQL Server to pay a reduced rate, and combine Azure Hybrid Benefit for Windows Server for even greater savings Azure SQL Database

Leverage the Azure Hybrid Benefit for SQL Server to pay a reduce rate on fully-managed Azure SQL Database

Azure Hybrid Benefit savings in IaaS

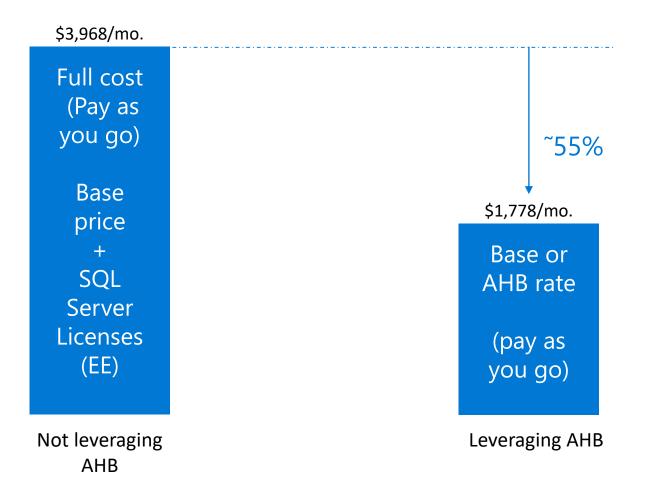
Customers save up to 85% by combining AHB for SQL Server and Windows Server in Azure VMs



¹Savings based on 8-Core D13 v2 VM in East US 2 region. Savings are calculated from full price (license included) for SQL Server Enterprise edition VM against reduced rate (applying Azure Hybrid Benefit for SQL Server and Windows Server), which excludes Software Assurance costs for SQL Server and Windows Server, which may vary based on EA agreement. Actual savings may vary based on region, instance size and compute family. Prices as of June 5 2018, subject to change.

Azure Hybrid Benefit savings on SQL Database

Customer save up to 55% with AHB for SQL Server



Note: Savings based on eight vCore SQL Database Managed Instance Business Critical in West US 2 Region, running 730 hours per month. Savings are calculated from on demand full price (license included) against base rate (applying Azure Hybrid Benefit for SQL Server). Savings excludes Software Assurance cost for SQL Server Enterprise edition, which may vary based on EA agreement. Actual savings may vary based on region, instance size and performance tier. Prices as of May 2018, subject to change.

AZURE SQL DATABASE

THE INTELLIGENT CLOUD DATABASE FOR APP DEVELOPERS

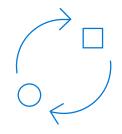
Intelligent DBaaS



Privacy and trust



Seamless and compatible



Competitive TCO



AZURE DATABASE FOR MYSQL AND POSTGRESQL

Work in the DB of your choice

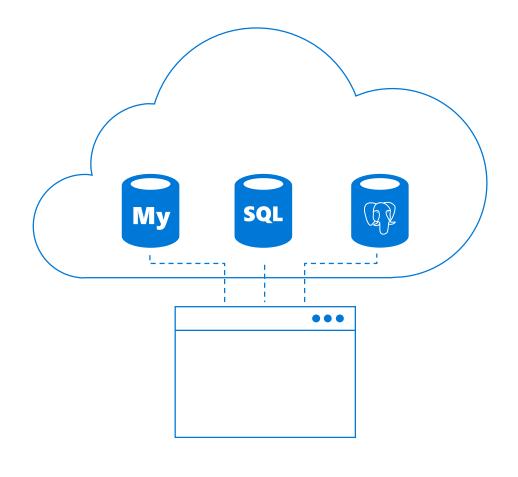
Create with built-in high availability

Set up in minutes, scale on the fly

Sustain performance with adaptive improvements

Rest easy with unparalleled security

Standard tier PREVIEW



AZURE COSMOS DB

GLOBALLY DISTRIBUTED, MULTI-MODEL NOSQL DATABASE SERVICE

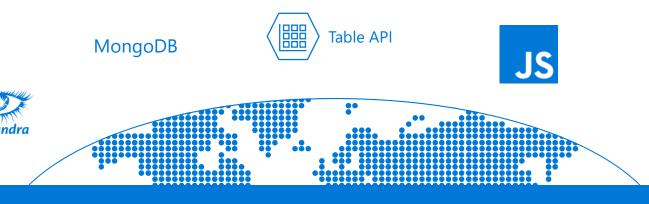
Multi-model data with your favorite API

Elastically scale storage and throughput

Multiple, well-defined consistency levels

<10ms latency guarantees at the 99th percentile

Industry-leading SLAs across performance, latency, availability and throughput



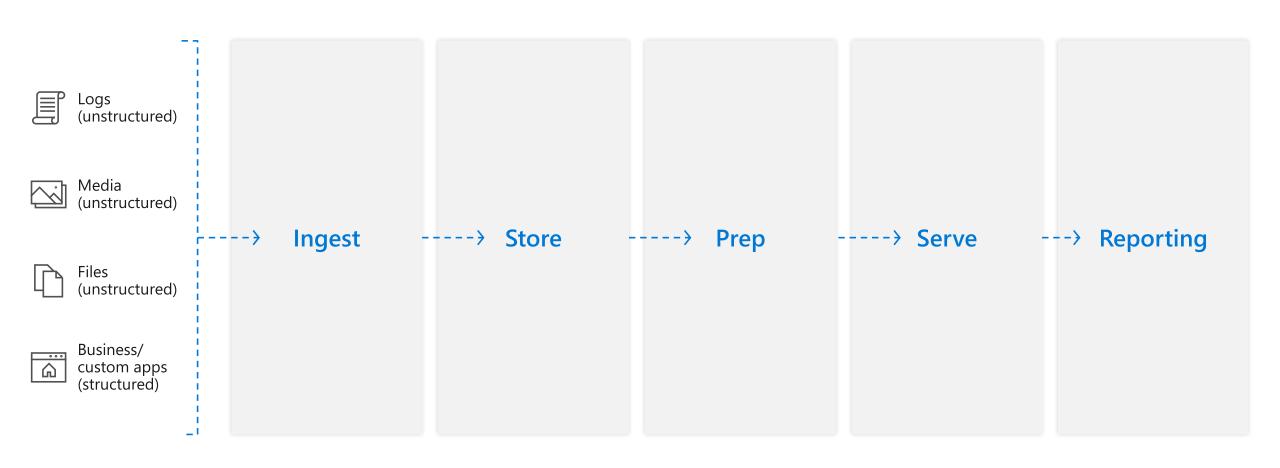
Lift and shift NoSQL apps

Run Spark over operational data

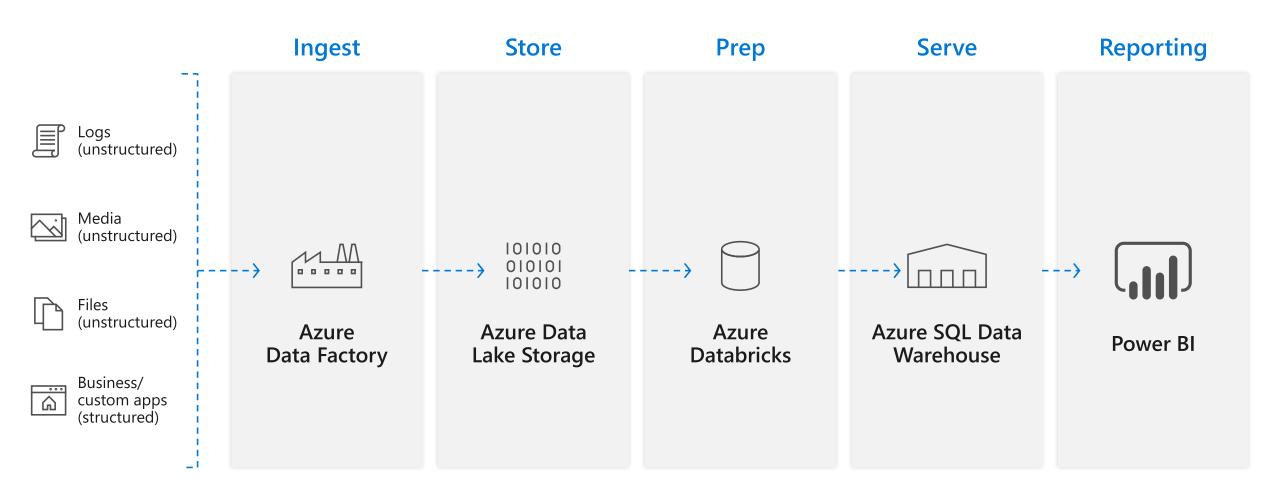
Build real-time customer experiences

Ideal for IoT, gaming and eCommerce

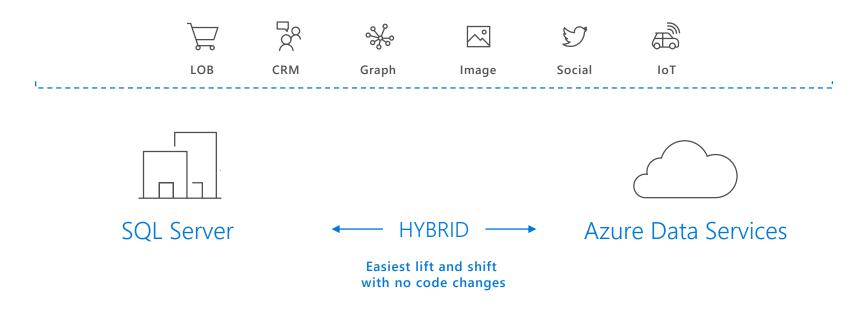
Cloud Scale Analytics



Cloud Scale Analytics



MICROSOFT FOR YOUR MODERN DATA ESTATE



Industry leader 4 years in a row Operational databases

#1 TPC-H performance Data warehouses

T-SQL query over any data Data lakes

Operational databases 70% faster

Data warehouses 2x the global reach

Data lakes 99.9% SLA



Empower today's innovators to unleash the power of data and reimagine possibilities that will improve our world

