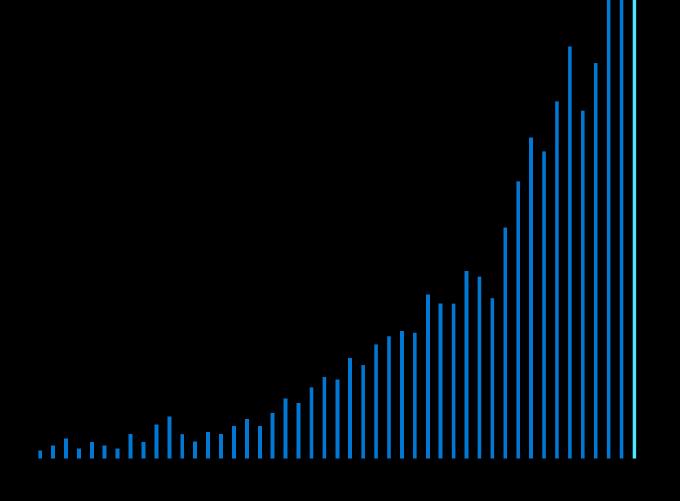


Analytics in a day

Cloud analytics in the age of self-service and data science



Agenda & Intro

Times are approximate and will be fluid with the class

Morning

```
·9:00 – 9:30 Insights for All – Azure Synapse Overview
```

·9:30 – 11:30 Integrated Platform - Azure Synapse Analytics

·11:30 – 12:00 Lab Intro & Lab 1 : Data Loading

Afternoon

```
·1:00 −2:00 Lab 1 : Continued
```

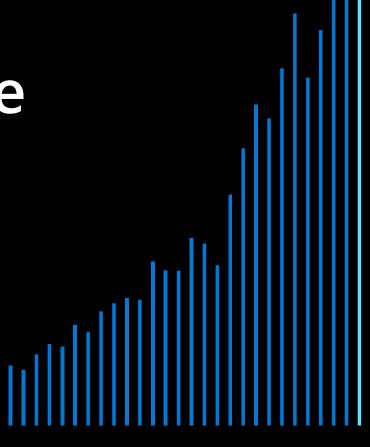
·2:00 −3:00 Lab 2: Azure Synapse Performance

·3:00 –4:00 Insight for all with Power BI + Azure Synapse

·4:00 –5:00 Lab 3: Azure Synapse + Bl



Insights for All – Azure Synapse





Data makes business possible

Data is crucial to businesses of all sizes

Securing data is mandatory

All data businesses need to be analytic businesses

Without analytics data is a cost center, not a resource



Businesses need to "know thyself"

Workers are empowered with intelligent insights

Augmented intelligence sees patterns we cannot



Data science empowers us to go farther

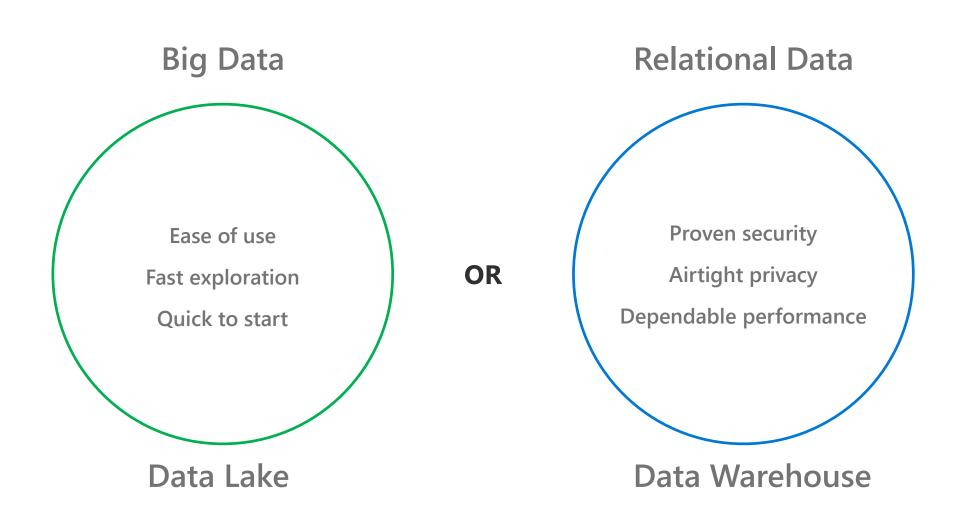
Businesses need scalable analytics

AI/ML creates smarter organizations

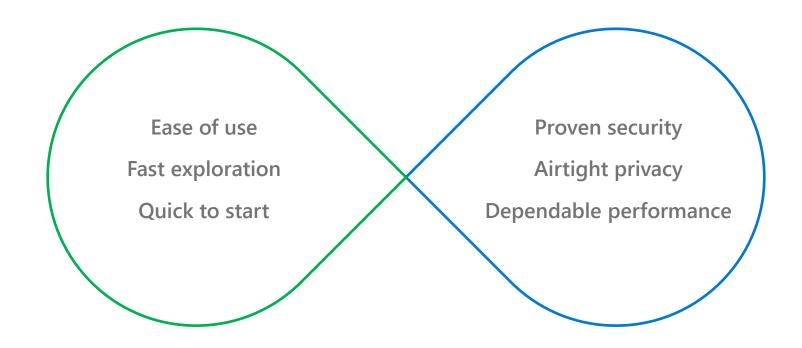
Limitless analytics service with unmatched time to insight

Azure Synapse is Azure SQL Data Warehouse evolved—blending big data, data warehousing, and data integration into a <u>single service</u> for end-to-end analytics at cloud scale.

This is a result of businesses being forced to maintain two critical, yet independent analytics systems



Azure brings these two worlds together, in a single service



Welcome to Azure Synapse Analytics







Powerful Insights



Unified Experience



Unmatched Security

Limitless scale provides a breathtaking view of your data

All of it, from warehouses and Big Data lakes with limitless scalability, provisioned or serverless,

and intelligently optimized workload performance.











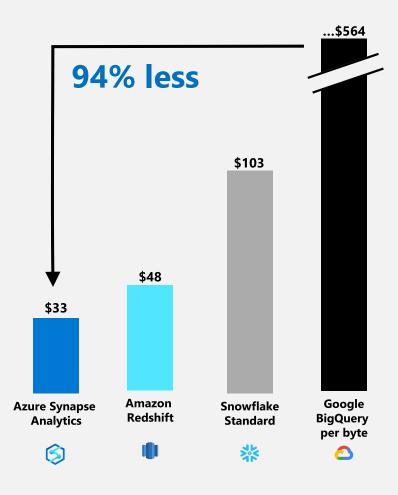
A breakthrough in the cost of enterprise analytics

With the best priceperformance in the business

Up to 14x faster and costs 94% less than other cloud providers

TPC-H Benchmark

Price-performance | Lower is better

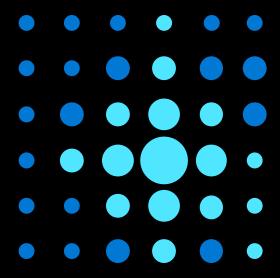


^{*} GigaOm TPC-H benchmark report, January 2019, "GigaOm report: Data Warehouse in the Cloud Benchmark

Unlock powerful insights, get a multilayered grasp of your business

Integrated BI and machine learning drives insight for all users

from the data scientist, coding with statistics, to the business user with Power BI.









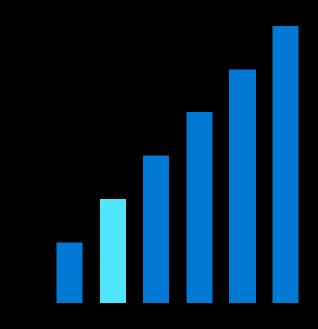


Build end-to-end analytics solutions with a unified experience

A consistent version of data for everyone and all analytics use cases,

but with zero management and maintenance,

plus financially backed SLAs.











Rigorous assurance of safe-keeping with the most advanced security and privacy features

We protect sensitive data in real time,

monitoring and responding to threats as they arise,

with industry-leading security *and* privacy features

at no extra cost to you.



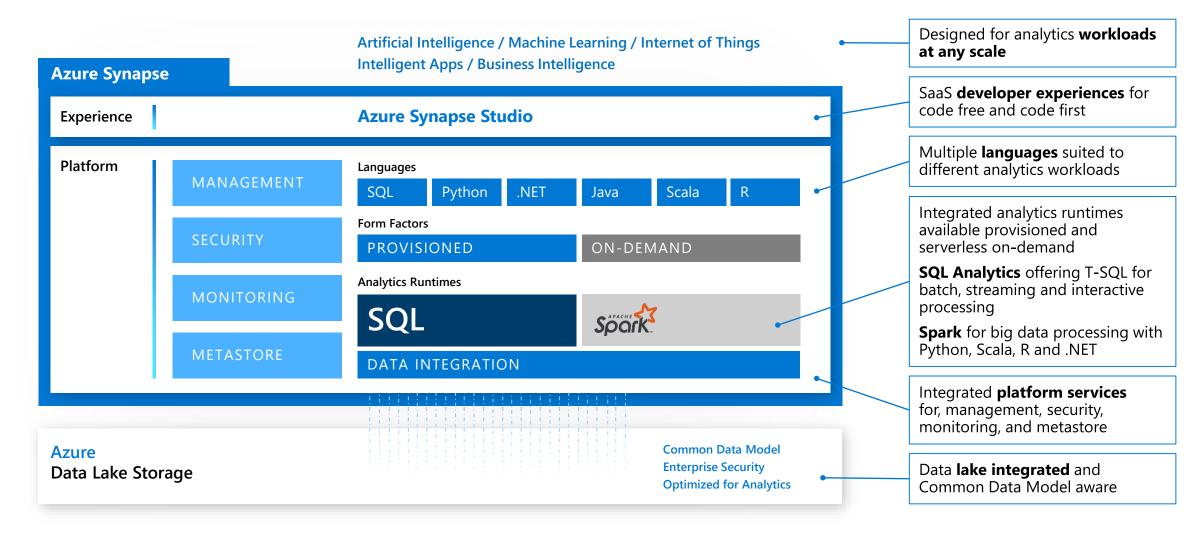








Limitless analytics service with unmatched time to insight



SQL Analytics - Core Architectural Pillars

Hassle-free Management

Built in scale, management, and support

Auto backup and geo-restore

Auto backups every 4 hours, retention for 7 days, and geo-replicated

Scale and Separation

Separates storage and compute for elastic scale. Scales on-demand

Market leading Security & Automation

Automation, policy-based, and industry leading security

SQL Analytics - Core Architectural Pillars

Built for data lake

Query any data over the data lake at PB scale

Elasticity & resiliency

Stateless service architecture— separation of state and compute

Performance

Tier 1 performance of appliance form factor.

Concurrency

High concurrency via resource aware task scheduling.

Autonomous workload manager

Self-tuned workload management: capacity planning, access control and resource governance.

A limitless analytics service with unmatched time to insight

